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MEASURING TECHNOLOGY

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Complete range

UPDATE
2018/19

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JAHRE
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CERTIFIED DESIGN AND QUALITY



More Warranty. More Safety. More Measuring Technology.



4 YEARS WARRANTY
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CERTIFIED DESIGN AND QUALITY



Laserliner – UMAREX Headquarters in Arnberg

Your Premium Partner in measurement technology

Laserliner is a competent partner around the world. In the planning, construction, modernization, renovation and restoration, Laserliner instruments are characterized by numerous technical innovations.

The 4 year warranty represents an outstanding service with clear advantages. Dependable products for greater reliability in everyday use, saving time and money.

Allow yourself to be convinced by our extensive range of application oriented, user friendly products ranging from: rotary lasers, cross- and line lasers, moisture and building inspection tools, distance meters, electronic locating devices, spirit levels and angle measures.



MORE THAN **20** YEARS
COMPETENCE

Press and Test – Online product demonstration Always up to date

A service you can rely on. Always providing the latest information about technology and specialized areas of application. A quick and user-friendly means of providing you with all the information you need. Use the product videos you can find on the Press and Test section of our website to learn the possibilities of our products and how they can be used.

For more detailed information go to www.laserliner.com!



Leading brand name products. Convincing. Professional. Innovative.



Under the brand Laserliner you will find modern measuring tools which are characterized by numerous technical innovations and high quality. Furthermore, a quality certificate comes with each BlackLine-product.



BlackLine

These robust products have been developed for continuous professional use.

OrangeLine

Extensive product range for demanding end-users and building professionals.



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Humidity and moisture measuring devices



WOOD, HUMIDITY AND CONSTRUCTION MOISTURE

Protection against moisture is a major problem in buildings. Early detection of building and material moisture contribute to the sustained protection and preservation of building fabric. Moisture assessment and localisation with suitable instruments is essential for this. Early detection can also prevent harmful mould and mildew infestation.

Non-destructive material moisture detection using the capacitive measuring method, ensures measurement results are obtained effortlessly and quickly: without damaging the surface during and especially after the construction phase. Measuring instruments utilising the precision measuring concept are used to determine the moisture in various building materials. This measuring method provides very accurate results.



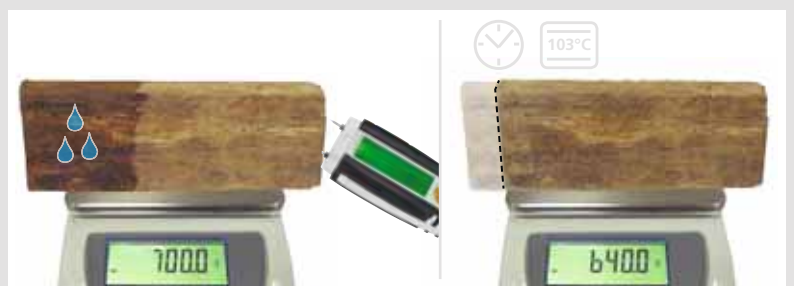
Surface temperature < Dew point temperature => Moisture condensation



Mould prevention

Climate in closed rooms at 20 °C

	Relative humidity %
Living room / study / summer	35 - 50
Living room / study / winter	50 - 70
Bedroom	35 - 50
Office	40 - 60
Assembly bay	50 - 60
School classroom	60 - 65
Swimming pool	80 - 90
Bathroom	65 - 100



Moisture assessment / Darr method







$$700,0g - 640,0g = 60,0g$$

$$\frac{60,0g}{640,0g} = 9,38\%$$



Push-in moisture measurement

Overview

						
	DampCheck	WoodTester Compact	DampFinder Compact	DampMaster Compact	DampMaster Compact Plus	MultiWet-Master Compact Plus
Measuring methods	Resistance	Resistance	Resistance	Resistance	Resistance	Resistance + Capacitive
Types of wood	1 wood group beech, ebony, linden, teak, willow	2 wood groups especially for firewood alder, ash, beech, birch, ebony, linden, maple, pedunculate oak, spruce, willow	2 wood groups with 102 types of wood *	3 wood groups with 108 types of wood * with table	3 wood groups with 108 types of wood * with table	3 wood groups with 108 types of wood * with table + 2 wood groups subdivided into softwood/hardwood
Building materials / percent by weight	1 building material gypsum plaster		8 building materials with table aerated concrete, anhydrite screed, cement screed, chalky sandstone, concrete (C12/15, C20/25, C30/37), gypsum plaster	8 building materials integrated, 23 additional with table **	8 building materials integrated, 23 additional with table **	8 building materials integrated, 23 additional with table **
Bluetooth					•	•
Building materials / percent CM						
Index mode / Index ZOOM mode			• / –	• / –	• / –	• / •
Moisture indicator (dry/wet)	•	•		•	•	•
Room climate/ dew point measurement						•
Menu system / 25 languages						

* **Types of wood / extract**
ash, alder, amer. mahogany, beech, birch, cedar, douglas fir, ebony, elm, european larch, linden, maple, pedunculate oak, scots pine, spruce, teak, willow

** **Building materials**
aerated concrete, anhydrite screed, ardurapid cement screed, bricks clay bricks, cardboard, cement mortar ZM 1/3, cement screed, cement screed bitumen admixture, cement screed synthetic additives, cement-bonded particle board, chalky sandstone, concrete C12/15, concrete C20/25, concrete C30/37, cork, elastizel screed, fibre board, gypsum plaster, gypsum screed, kauramin particle boards, lime mortar KM 1/3, melamine particle boards, paper, permoxboard, phenolic resin particle boards, polystyrene / styrofoam, soft-fibre panel / wood / bitumen, stone wood / xylolite, textiles, wood cement screed

Accessories

DampExtension Compact set

Deep-insertion electrode – suitable for various measurement applications ...



HammerProbe Compact



External hand-held electrode
for use with hardwoods and soft building materials

Surface moisture measurement

MoistureFinder Compact	MoistureMaster Compact	MoistureMaster Compact Plus
Capacitive	Capacitive	Capacitive
2 wood groups subdivided into softwood/hardwood amer. mahogany, ash, birch, beech, cedar, linden, redwood, scots pine, spruce	56 types of wood ***	56 types of wood ***
2 building materials cement screed, gypsum plaster	6 building materials aerated concrete, anhydrite screed, cement screed, chalky sandstone, concrete, gypsum plaster	6 building materials aerated concrete, anhydrite screed, cement screed, chalky sandstone, concrete, gypsum plaster 2 building materials percent CM anhydrite screed, cement screed
		•
		•
	• / •	• / •
•	•	•
		•
	•	•

*** Types of wood / extract
ash, alder, amer. mahogany, beech, birch, cedar, douglas fir, elm, european larch, linden, maple, pedunculate oak, scots pine, spruce, teak, willow

• = available

CM method – Calcium carbide measuring method

The calcium carbide measuring method is based on a chemical principle, whereby building material samples (1) are tested for moisture in a pressure tank (2).



Gas acetylene
Calcium carbide
Stainless-steel balls for crushing
Core sample



Non-destructive measurement
MoistureMaster Compact Plus
The MoistureMaster Compact Plus can indicate the comparative value in CM% by means of the non-destructive, electronic measuring method.

Bluetooth CONNECTION

Download on the App Store

GET IT ON Google play

8,4% moisture

DampMaster Compact Plus
MultiWet-Master Compact Plus
MoistureMaster Compact Plus

Bluetooth interface for measurement data transfer

MeasureNote

Measurement and documentation app for smartphones and tablets

- Transfer measured values
- Voice output
- FotoNote: Mark measuring points on the image
- MeasureLocation: Save place and time of measurement
- Direct-Info Link: Direct link to operating instructions



Humidity and condensation



ClimaHome-Check



Digital temperature- and hygrometer

- Measurement of relative humidity and ambient temperature
- Can be used as tabletop device with fold-out stand/clip
- Integrated magnetic holder
- Digital display with max/min values



Ambient temperature measuring range: 0°C...50°C

Accuracy: ± 1°C

Relative air humidity: 20%rH...99%rH

Accuracy: ± 5%rH (25%rH...85%rH)

Inclusive: ClimaHome-Check, battery

ORDER NO. EAN-CODE PU

082.028A 4 021563 687855 5

ClimaPilot



Digital hygrometer for measurement of relative humidity and ambient temperature with dew point indicator

- Practical device for monitoring room climate
- Digital display with max/min values
- Switch between ambient temperature/dew point



Ambient temperature measuring range: -10°C...50°C

Accuracy: ± 1°C

Relative air humidity: 20%rH...90%rH

Accuracy: ± 5%rH (25%rH...85%rH)

Dew point temperature: -28.6°C...47.9°C

Accuracy: ± 2°C

Inclusive: ClimaPilot, battery

ORDER NO. EAN-CODE PU

082.034A 4 021563 687886 5

CondenseSpot Plus



Infrared thermometer for locating thermal bridges and condensation moisture

- The 8-point laser circle pinpoints the measuring zone exactly
- Localisation of condensation in thermal bridge mode with dew point display
- Localisation of thermal bridges and condensation water issues in thermal bridge mode with dew point display
- Temperature measurement range (-40°C...365°C)
- Emission ratio: 0.01...1.0 (adjustable)
- Colour alarm function: Thermal bridge warning with colour display
- Quick selection of 5 emissivity defaults with Fast Preset or exact setting by entering numerical value
- Bar graph condense water indicator
- Lens 12:1, illuminated display

Infrared measuring range: -40°C...365°C

Accuracy: -40°C ~ 0°C: ± (1 + 0,05/deg)°C

0°C ~ 30°C: ± 1°C ± 1%

>30°C: ± 2°C ± 2%

Dew point temperature: -20°C...60°C

Inclusive: CondenseSpot Plus, batteries

ORDER NO. EAN-CODE PU

082.046A 4 021563 688098 2



Push-in moisture measurement

DampCheck



- Compact moisture measuring device**
- Checks the degree of dryness in wood
 - For checking the moisture content in gypsum plaster
 - Measuring of ambient temperature
 - LED wet/dry indicator: the 3 colour LEDs (green = dry, yellow = moist, red = wet) provide immediate information about the tested material's degree of moisture or dryness.

4x LR44



Inclusive: DampCheck, protective cap, batteries

Measuring range / accuracy (relative material humidity):
 Wood: $\pm 1,5\% \pm 1$ digit
 Building materials: $\pm 0,5\% \pm 1$ digit Temperature: $\pm 2^{\circ}\text{C}$ (0...40°C)

ORDER NO. EAN-CODE PU

082.003A 4 021563 689996 5

WoodTester Compact



- Compact wood moisture measuring device**
- Checks the degree of dryness in firewood to conserve energy and reduce emissions
 - Dual scale for most commonly used types of firewood RANGE, WOOD GROUP A (beech, linden, willow, ebony) RANGE, WOOD GROUP B (pedunculate oak, maple, alder, spruce, birch, ash)
 - Simple one-button operation
 - Stable, ergonomic housing

9V



Inclusive: WoodTester Compact, protective cap with self-test function, battery

Measuring range / accuracy:
 Wood: $\pm 1,5\% \pm 1$ digit

ORDER NO. EAN-CODE PU

082.004A 4 021563 690008 5



DampFinder Compact



- Universal device for testing moisture in wood and building materials**
- For ascertaining moisture in building materials and for quick checks when working with wood
 - Triple scale for wood groups A, B and universal index mode
 - Numerical display of measured value and ambient temperature
 - Illuminated, transparent display

4x AAA



Inclusive: DampFinder Compact, protective cap with self-test function, battery

Measuring range / accuracy:
 Wood: $\pm 0,3\% \pm 5$ digit
 Building materials: $\pm 0,5\% \pm 1$ digit

ORDER NO. EAN-CODE PU

082.015A 4 021563 690015 5



DampMaster Compact



- Professional test instrument for moisture in wood, plaster and building materials**
- Integrated characteristics of 3 groups of wood with 108 types of wood and 8 construction materials plus 23 others from the table increase the accuracy of the measurements.
 - The wet/dry indicator evaluates and interprets measurements with respect to the given material.
 - Measuring device adapted to temperature of material to be measured
 - Triple scale for wood groups A, B and universal index mode
 - Stable, ergonomically designed, rubberised casing
 - Illuminated, transparent display



Resistance measurement Measuring range / accuracy:
 Wood: $\pm 0,3\% \pm 5$ digit
 Building materials: $\pm 0,5\% \pm 1$ digit

Inclusive: DampMaster Compact, protective cap with self-test function, batteries, carrying case

ORDER NO. EAN-CODE PU

082.320A 4 021563 694433 2

4x AAA

HARD

DampMaster Compact Plus



- Professional material moisture device with Bluetooth interface**
- Product description same as DampMaster Compact
 - Bluetooth interface for measurement data transfer

Inclusive: DampMaster Compact Plus, protective cap with self-test function, batteries, carrying case

ORDER NO. EAN-CODE PU

082.321A 4 021563 699858 2

Bluetooth



4x AAA

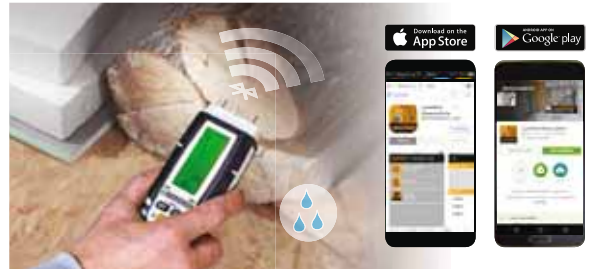
HARD



Building moisture analysis sets

DampMaster Compact Pro

Professional test instrument with Bluetooth interface for moisture in wood, plaster and building materials – with DampExtension Compact set
 – Product description same as DampMaster Compact Plus on page 11
 – With insertion electrodes DeepElectrodes Compact plus connection cable ExtensionCable



Inclusive: DampMaster Compact Plus, protective cap with self-test function, DampExtension Compact set: DeepElectrodes Compact with ExtensionCable, batteries, carrying case

ORDER NO.	EAN-CODE	PU
082.325A	4 021563 696468	2

Bluetooth Laserliner 4x AAA HARD

MultiWet-Master Compact Plus

NEW

Non-destructive surface scan and precision spot measurement of material moisture. Room climate measurement with dew point and Bluetooth interface

- 2 measuring methods: Resistance measurement, capacitive measurement (non-destructive)
- Integrated characteristics of 3 groups of wood with 108 types of wood and 8 construction materials plus 23 others from the table increase the accuracy of the measurements.
- Pop-out sensor for measuring ambient temperature, relative humidity and calculating dew point
- Index functions for optimum analysis of different material categories (construction materials, wood and composite materials)
- Bluetooth interface for transferring measured data and for device parameterisation
- Programmable, 12-position wet/dry LED indicator for quick assessment
- Illuminated LC display



Measuring range / accuracy:

Resistance measurement	
Wood:	± 1% (5% ... 30%)
	± 2% (<5% and >30%)
Building materials:	± 0,15%
Capacitive measurement	
Wood:	± 2%
Room climate measurement	
	± 2°C (-10°C ... 60°C)
	± 3% (20% ... 90%)



Inclusive: MultiWet-Master Compact Plus, protective cap with self-test function, battery, carrying case

ORDER NO.	EAN-CODE	PU
082.390A	4 021563 694440	2

9V HARD

MultiWet-Master Inspection set

UPDATE

Professional material moisture device set – MultiWet-Master Compact Plus with DampExtension Compact set and ThermoSpot Plus
 – Product description same as MultiWet-Master Compact Plus and ThermoSpot Plus on page 16



Inclusive: MultiWet-Master Compact Plus, ThermoSpot Plus, DampExtension Compact set: DeepElectrodes Compact with ExtensionCable, batteries, carrying case

ORDER NO.	EAN-CODE	PU
082.092A	4 021563 687893	2

MultiWet-Master Compact Plus 9V ThermoSpot Plus Laser 650 nm 2x AAA HARD



MultiWet-Master Compact Plus – 3 sensors in one measuring device



Surface moisture measurement



MoistureFinder Compact Professional material moisture measurement – quick and non-destructive



- Non-destructive measurement of material moisture by capacitive measurement. The tested material is not damaged.
- Simple to use: select material type then place the instrument on the material's surface to determine moisture content in %.
- 4 selectable material characteristics: soft woods (e.g. spruce, pine, linden), hard woods (e.g. beech, oak, birch), gypsum plaster and cement screed
- LED wet/dry indicator provide immediate measurement results for moisture content in the tested material.



Measuring range / Accuracy:

Wood: $\pm 0,5\% \pm 10$ digit
 Building materials: $\pm 0,6\% \pm 1$ digit

Inclusive: MoistureFinder Compact, battery

ORDER NO.	EAN-CODE	PU
082.332A	4 021563 694457	2



MoistureMaster Compact



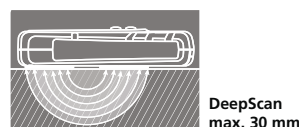
Professional material moisture measurement – quick and non-destructive

- Non-destructive measurement of material moisture by capacitive measurement. The tested material is not damaged.
- 62 selectable material characteristics: 56 wood and 6 building material types (cement screed, anhydrite screed, gypsum plaster, aerated concrete, concrete, lime malm brick)
- Index-Zoom – Rapid location of moisture in thicker building materials
 - Quick localisation of moisture: comparison measurements can be made in index mode to reveal increasing or decreasing moisture based on a neutral scale.
- LED wet/dry indicator provide immediate measurement results for moisture content in the tested material.
- Menu system with 25 languages
- Illuminated, transparent display



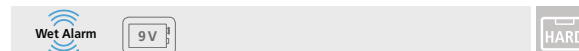
Measuring range / Accuracy:

Wood / Building materials: $\pm 0,5\% \pm 10$ digit



Inclusive: MoistureMaster Compact, battery, carrying case

ORDER NO.	EAN-CODE	PU
082.333A	4 021563 694464	2



MoistureMaster Compact Plus



Professional material moisture measurement – quick and non-destructive with Bluetooth interface

- Product description same as MoistureMaster Compact
- Bluetooth interface for measurement data transfer
- CM mode for evaluating anhydrite screed and cement screed in CM% (comparable with CM method)

Measuring range / Accuracy:

Wood / Building materials: $\pm 0,5\% \pm 10$ digit

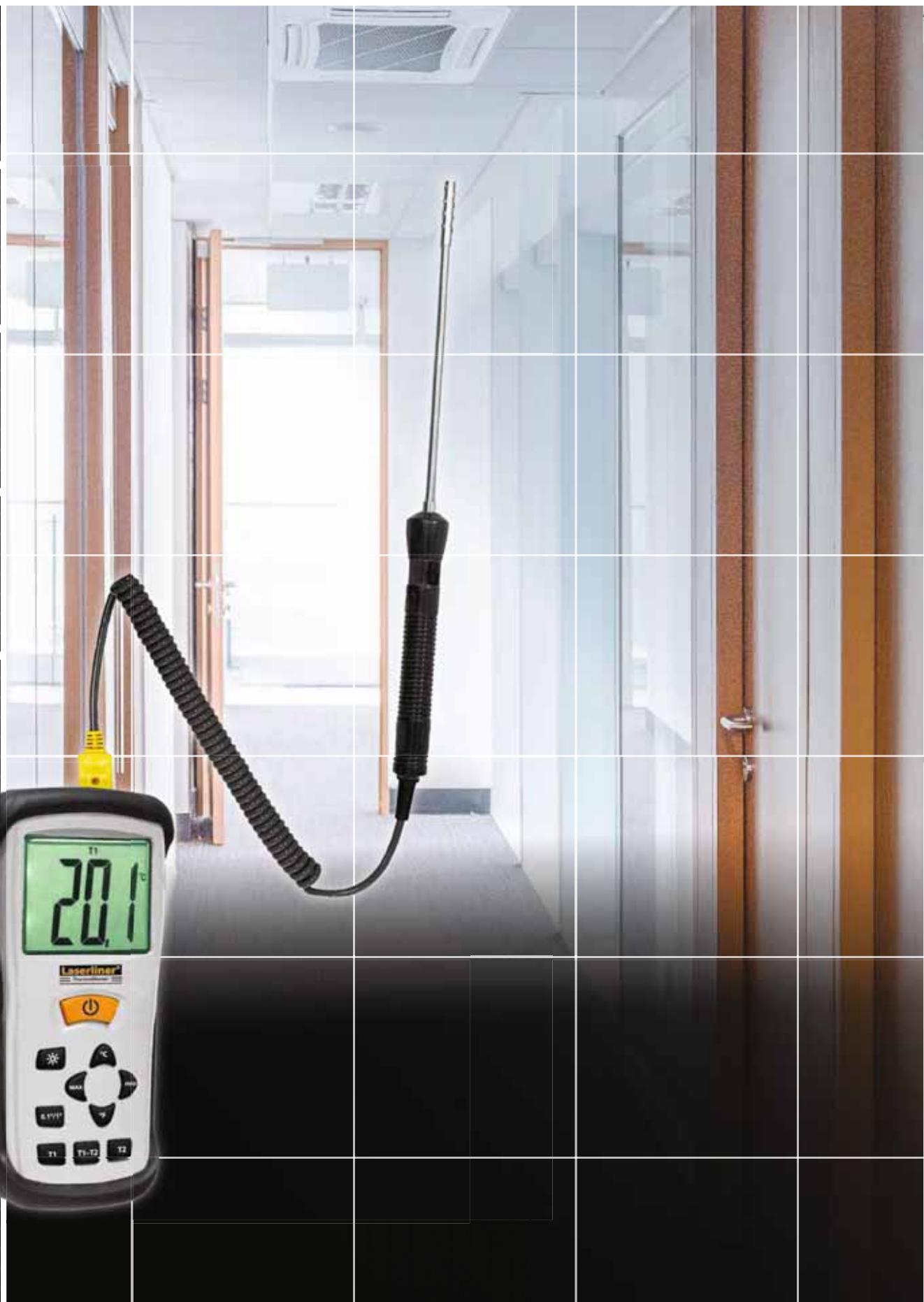


Inclusive: MoistureMaster Compact Plus, battery, carrying case

ORDER NO.	EAN-CODE	PU
082.334A	4 021563 699865	2



Temperature measuring instruments



Contact and ambient temperature measurement

ThermoTester



Digital thermometer for household, gastronomy, trade, craft and industrial applications

- Can be dipped or inserted into material
- Large temperature measuring range: -40°C...250°C
- Quick response time
- Measurement in °C or °F
- Hold function: the current measured value is held in the display
- Min/Max display
- Large LC display



Inclusive: ThermoTester, protective cover, battery

Measuring range: -40 °C...250 °C
Accuracy: 1.5% ± 2°C

1x LR 44

ORDER NO. EAN-CODE PU

082.030A 4 021563 664986 5

ThermoMaster



Digital thermometer with contact thermocouple for use in laboratories and industry

- Large temperature measuring range: -50°C...1300°C
- Dual K-type inputs for thermocouple for direct differential measurement of two temperatures
- Two flexible thermocouples for a wide range of industrial applications
- The MAX function determines when limit values are exceeded during prolonged measuring procedures
- Fold-out base for laboratory use
- 1/4" stand connection for flexible arrangement in stationary setups
- Tough enclosure with rubber guard
- Illuminated, clearly arranged display



Measuring range: -50°C...1300°C
Accuracy: ± 0.5% of displayed value ± 1°C (0°C...1000°C)
± 0.8% of displayed value ± 1°C (1000°C...1300°C)
± 2°C (-50°C...0°C)

ThermoProbe K measuring range: -50°C...200°C
Accuracy: ± 2.5°C (-50°C...200°C)

Inclusive: ThermoMaster, 2x ThermoProbe K thermocouple, battery, carrying case

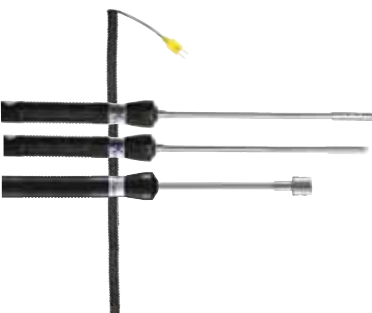
1/4" 9V

HARD

ORDER NO. EAN-CODE PU

082.035A 4 021563 676293 2

ThermoSensor Air / Tip / Touch



K-Typ-temperature sensor – ThermoSensor Air for measuring air and gas temperature
ThermoSensor Tip for inserting in soft, highly viscous materials
ThermoSensor Touch as a surface probe on solid backgrounds

- Sensor length: 165 mm
- Heat resistant handle
- Accuracy class: 2
- ThermoSensor Air: Temperature sensor protected by metal sleeve (ø 6.5 mm)

Only for ThermoMaster.

Measuring range: ThermoSensor Air / Tip: -50°C...800°C
ThermoSensor Touch: -50°C...400°C

Inclusive: ThermoSensor, expandable spiral cable

ORDER NO. EAN-CODE PU

Air 082.035.1 4 021563 676309 2

Tip 082.035.2 4 021563 676316 2

Touch 082.035.4 4 021563 688111 2

ThermolInspector



Professional multisensor thermometer for ensuring hygiene in the food industry in accordance with HACCP guidelines and temperature specifications

- Precise infrared surface thermometer providing a contactless and hygienic method of measuring storage and processing temperatures
- Fast, fold-out probe thermometer for depth measurement with a small penetration diameter and depth of up to 80 mm
- Dual LC display with colour alarm
- Including the key temperatures in cooling and processing food
- Dual laser target mark

Measuring range: -60°C...350°C
IR Accuracy: ± 0,6°C or ± 1,0% (15°C...35°C),
± 1,0°C 0,1°C / degree (< 0°C),
± 1,0°C (< 65°C), ± 1,5% (≤ 350°C)
Probe Accuracy: ± 0,5°C (-5°C...65°C),
± 1,0°C (< -5°C),
± 1,0% (> 65°C)

Inclusive: ThermolInspector, batteries

ORDER NO. EAN-CODE PU

082.037A 4 021563 699001 2

Laser 650 nm

2

IP 54

2x AAA



Dual LC display with colour alarm



Long fold-out probe for insertion with very thin test probe

Infrared temperature measurement



ThermoSpot One



Non-contact infrared temperature instrument with integrated laser

- The non-contact measuring method is ideal for sensitive surfaces and for hazardous applications such as moving machine parts or electrical installations
- Measuring range pinpointing with target laser
- Emission ratio: 0.95
- Lens: 12:1

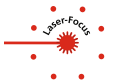


Infrared measuring range:	-38°C...365°C
Accuracy:	± 2.5°C + 0.05°C / degree (-38°C...0°C) ± 2.5°C (0°C...365°C) or ± 2.5% depending on the higher value

Inclusive: ThermoSpot One, batteries

ORDER NO.	EAN-CODE	PU
082.038A	4 021563 689989	5

ThermoSpot Laser



Non-contact infrared temperature instrument with integrated laser

- The non-contact measuring method is ideal for measuring temperature in places difficult to access as well as for hazardous applications such as moving machine parts or electrical installations
- The 8-point laser circle pinpoints the measuring zone exactly
- Emission ratio: 0.95
- Lens: 12:1

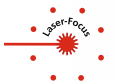


Infrared measuring range:	-38°C...365°C
Accuracy:	± 2.5°C + 0.05°C / degree (-38°C...0°C) ± 2.5°C (0°C...365°C) or ± 2.5% depending on the higher value

Inclusive: ThermoSpot Laser, batteries

ORDER NO.	EAN-CODE	PU
082.040A	4 021563 664993	5

ThermoSpot Plus



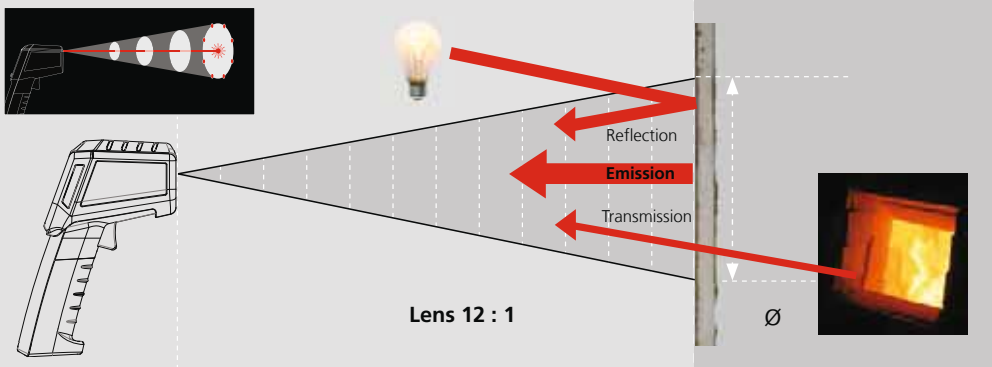
Non-contact infrared temperature instrument with integrated laser

- The non-contact measuring method is ideal for measuring temperature in places difficult to access as well as for hazardous applications such as moving machine parts or electrical installations
- Large temperature measurement range (-38°C...600°C)
- Emission ratio: 0.01...1.0 (adjustable)
- The 8-point laser circle pinpoints the measuring zone exactly
- Max-Read: The highest measured value is shown on the display during measurement.
- Lens: 12:1
- Illuminated display

Infrared measuring range:	-38°C...600°C
Accuracy:	± 2°C + 0.05°C / degree (-38°C...0°C) ± 2°C (0°C...600°C) or ± 2% depending on the higher value

Inclusive: ThermoSpot Plus, batteries, belt holster

ORDER NO.	EAN-CODE	PU
082.042A	4 021563 688081	2



Thermal imaging cameras



Compact temperature measurement

Direct analysis on site

Compact design for small areas and short distances

Construction industry, heating and bathroom sector

- Underfloor and wall heating
- Analysis of heating valves and systems
- Detecting weak points in insulation

Electrical

- Detection of overloaded fuses and electrical circuits
- Avoidance of heat build-up
- Optimisation of temperature distribution

- **Area evaluation**
- **Immediate visual check**

Industry

- Recognition of incipient damage to shafts, bearings and moving machine parts
- Checking workpieces, injection moulds and weak points in materials

Human and veterinary analysis

- Temperature screening in infectious diseases
- Applications in food industry
- Analysis and monitoring in animal husbandry and fattening facilities

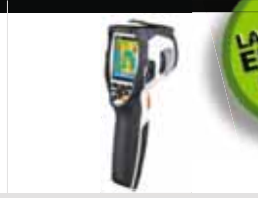
Overview



ThermoVisualizer Plus



ThermoCamera Compact Plus



ThermoCamera Compact Pro



Measuring system	thermal array sensor, 9 Hz, 8-14 µm
IR optics	40° x 40° (FOV), standard focus 0.5 - 5 m
Thermal sensitivity	NETD 0.1°C @ +30°C
Measuring range	-20...250°C
Accuracy	± 2°C or ± 2% of measured value
Image modes	infrared image
Analysis function	colour palettes, real-time analysis (central measuring point, hot/cold spot marking), temperature alarm
Emissivity coefficient	0.01...1,00
Image / video function	● / -
Audio function	
Memory (extern) / USB	● / -
Display	TFT colour display
Laser class	

80 x 80 pixels, uncooled microbolometer, 25 Hz, 8-14 µm	120 x 160 pixels, uncooled microbolometer, 25 Hz, 8-14 µm
17° x 17° (FOV), 3.78 mrad (IFOV), adjustable focus 0.5 - 10 m	19° x 25° (FOV), 2.78 mrad (IFOV), adjustable focus 0.5 - 30 m
NETD 0.1°C @ +30°C	NETD 0.1°C @ +30°C
-20...150°C, 0...350°C	-20...150°C, 0...350°C
± 2°C or ± 2% of measured value	± 2°C or ± 2% of measured value
infrared image, digital image, MIX image	infrared image, digital image, MIX image
colour palettes, real-time analysis (central measuring point, hot/cold spot measurement)	colour palettes, real-time analysis (central measuring point, hot/cold spot measurement)
0.01...1,00	0.01...1,00
● / ●	● / ●
●	●
● / ●	● / ●
TFT colour display	TFT colour display
2	2

● = available



2.8" TFT colour display



Thermal image analysis

Precise analysis over great distances

High resolution thermal camera

- High resolution image for professional, versatile measurements
- Monitoring the drying of a building
- Identify faults in electrical or mechanical components – Increasing the safety and reliability of machinery and ovens
- Pinpoint defective solar cells



ThermoCamera-Vision

160 x 120 pixels, uncooled microbolometer, 50 Hz, 8-14 µm

33° x 24° (FOV), 3.33 mrad (IFOV), manual focus 0.3 m min.

NETD 0.08°C @ +30°C

-20°C...150°C, 0°C...400°C

± 2°C or ± 2% of measured value

infrared image, digital image, picture-in-picture, MIX image

colour palettes, real-time analysis (measuring points, -lines, -areas, hot/cold spot measurement), isothermal function, temperature alarm

0.01...1,00

Interchangeable lens	•
Image / video function	• / •
Audio function	•
Memory (extern) / USB	• / •
CustomApps	•
Display	TFT colour display with touch screen
Laser class	2

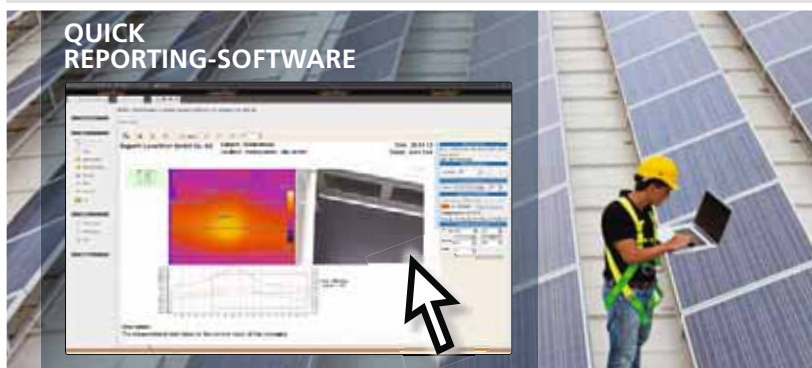
Software

for quick and easy measurement analysis

The software provided makes it possible to transfer the recorded data to a PC and to use the data for further processing and documentation.



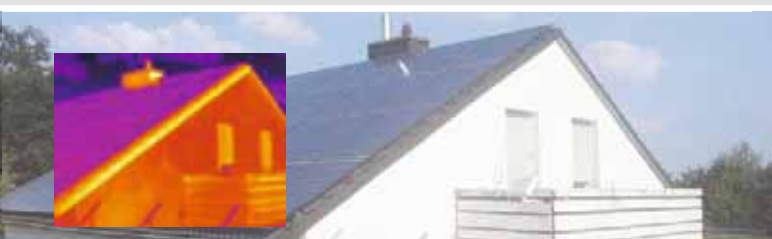
QUICK REPORTING-SOFTWARE



Software functions

- Thermal data analysis
- Adjust colour palettes
- Documentation and report function
- Configure CustomColor-Palettes*
- Configure CustomApps*

*Only for ThermoCamera-Vision



Compact temperature measurement

ThermoVisualizer Plus



Visualisation of temperature curves for use in construction, electrical engineering, industrial applications and person diagnosis in compact design

- High-resolution 2.8" colour display
- Infrared sensor enables quick and easy measurement for evaluating temperature profiles
- Large measuring range from -20°C...250°C
- Adjustable emissivity range from 0.01 to 1.0 for precision measurement of material properties
- Central measuring point for temperature analysis and additional hot/cold spot marking
- Measured data for each image
- Selectable standard colour pallets: IRON, RAINBOW, HIGH CONTRAST and GREY SCALE
- Data storage on exchangeable Micro-SD card



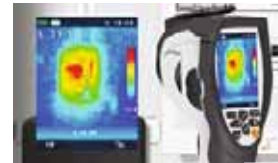
IR sensor:	Thermal array sensor, 9 Hz, 8-14 µm
IR optics:	Infrared lens
FOV:	40° x 40°
Focus:	Standard 0.5 - 5 m
Thermal sensitivity:	NETD 0.1°C @ +30°C
Measuring range:	-20°C...250°C
Accuracy:	± 2°C or ± 2% of measured value
Display:	2.8" TFT colour display
Image modes:	Infrared image
Format:	JPEG format, up to 40,000 images
Memory:	Micro-SD card up to 8 GB
Connections:	Micro-SD
Other features:	Choice of 4 languages

Inclusive: ThermoVisualizer with rubberised casing, QuickReporting-Software, 4 GB micro-SD card, batteries, carrying case

ORDER NO.	EAN-CODE	PU
082.073A	4 021563 692712	1

DISPLAY 2.8" colour TFT
REC jpg
micro
IP 54
4 x AA
HARD

ThermoCamera Compact Plus



Compact thermal imaging camera for applications in construction, electrical engineering and mechanical engineering

- High-resolution 2.8" colour display for reliable evaluation and analysis of temperature conditions
- Infrared sensor with 80 x 80 pixel resolution and focusable infrared lens for detailed and varied image analysis
- Large measuring range from -20°C...350°C
- Adjustable emissivity range from 0.01 to 1.0 or selection from material table
- Analysis in various image modes - Full screen: infrared image, digital image MIX image: Crossfade infrared/digital image
- Selectable standard colour pallets: IRON, RAINBOW, GREY, GREY-INV
- Central measuring point for temperature analysis and additional hot/cold spot measurement
- Measured value correction for ambient and reflected temperature for easy compensation of error effects
- Data storage on exchangeable Micro-SD card
- Built-in USB 2.0 PC interface for smooth data exchange and additional PC camera function

IR sensor:	Uncooled microbolometer, 25 Hz, 8-14 µm
Resolution:	80 x 80 pixels
IR optics:	Germanium infrared lens
FOV:	17° x 17°
IFOV:	3.78 mrad
Focus:	Adjustable 0.5 - 10 m
Thermal sensitivity:	NETD 0.1°C @ +30°C
Measuring range:	-20°C...150°C, 0°C...350°C
Accuracy:	± 2°C or ± 2% of measured value
Display:	2.8" TFT colour display
Image modes:	Infrared image, digital image, MIX image
Image function:	1-32x digital zoom
Digital camera:	Resolution 1,280 x 960 pixels
Format:	JPEG format, MPEG-4 standard (30 Hz), max. 1,280 x 960 pixels
Memory:	Micro-SD card up to 16 GB
Port:	Mini USB/ USB 2.0
Connections:	Micro-SD, video (HDMI), audio, microphone/headphone
Other features:	Choice of 7 languages white LED / object lighting

Inclusive: ThermoCamera Compact, QuickReporting-Software, Li-Ion battery pack with power supply/battery charger and international adapter, USB cable, video cable, headphone, 8 GB micro-SD card with adapter, 1/4" tripod connection, carrying case

ThermoCamera Compact Pro



Product description same as ThermoCamera Compact Plus
 - Infrared sensor with 120 x 160 pixel resolution and focusable infrared lens for detailed and varied image analysis

IR optics:	Germanium infrared lens
FOV:	19° x 25° (FOV)
IFOV:	2.78 mrad (IFOV)
Focus:	Adjustable 0.5 - 30 m

Inclusive: ThermoCamera Compact Pro
 Accessories: same as ThermoCamera Compact plus

ORDER NO.	EAN-CODE	PU
082.083A	4 021563 692729	1
082.084A	4 021563 694396	1

DISPLAY 2.8" colour TFT
ZOOM 32x
CAMERA 1.280 x 960 pixel
Laser 635 nm
2
REC jpg/mp4
micro
USB
LED LIGHT
IP 54
1/4"
RECHARGE
HARD

Thermal image analysis

ThermoCamera-Vision



Universal, high resolution thermal camera for professional applications in construction, photovoltaics, electrical engineering and mechanical engineering

- Large, high-resolution 3.5" colour display with touch screen for direct control and analysis
- 160 x 120 pixel infrared sensor with focusable interchangeable lens (optional) enables detailed and varied image analysis
- 50 Hz high-speed infrared sensor suitable for fast and dynamic procedures
- Large measuring range from -20°C...400°C
- QuickRange-Setup: Optimum measurement range set with hot key
- Analysis in various image modes - Full screen: Infrared image, digital image Picture-in-picture: Infrared/digital image, digital/infrared image MIX image: Crossfade infrared/digital image with masking function
- Standard colour palettes and CustomColorPalettes, freely definable user-specific colour palettes
- Measured value correction for ambient and offset temperature, relative humidity, measuring distance
- Extended real-time analysis: 3 measuring points, 2 measuring lines (horizontal/vertical), 3 measuring areas (with min./max./avg calculation)
- Hot/cold spot measurement and isothermal function
- Data storage on exchangeable Micro-SD card
- Image and video capture for documentation with additional voice recording and text notes
- Built-in USB 2.0 PC interface for smooth data exchange and additional PC camera function

IR sensor:	Uncooled microbolometer, 50 Hz, 8-14 µm
Resolution:	160 x 120 pixels
IR optics:	Germanium interchangeable lens
FOV:	33° x 24°
I FOV:	3.33 mrad
Focus:	manual 0.3 m min.
Thermal sensitivity:	NETD 0.08°C @ +30°C
Measuring range:	-20°C...150°C, 0°C...400°C
Accuracy:	± 2°C or ± 2% of measured value
Display:	3.5" TFT colour display with touch screen
Image modes:	Infrared image, digital image, picture-in-picture, MIX image
Image function:	1-2x digital zoom, rotation 0° - 360°, in steps of 1
Digital camera:	Resolution 640 x 480 pixels
Format:	JPEG format, MPEG-4 standard (30 Hz), max. 640 x 480 pixels
Memory:	Micro-SD card up to 16 GB
Port:	Mini USB / USB 2.0
Connections:	Micro-SD, video, audio, microphone/headphone
Other features:	Choice of 7 languages, white LED / object lighting

Touch screen



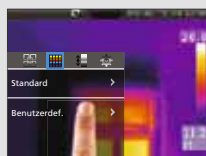
IR-SENSOR
160 x 120 pixel

DISPLAY	TOUCH 3.5" TFT	ZOOM 2x	360°	CAMERA	640 x 480 pixel	Laser 635 nm	2	REC jpg/mp4	micro	USB	LED LIGHT	IP 65	1/4"	RECHARGE	HARD
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Inclusive: ThermoCamera-Vision, QuickReporting-Software, 2 Li-Ion battery packs with external charging station, power supply/battery charger incl. international adapter, USB cable, video/audio cable, microphone/headphone, 4 GB micro-SD card with adapter, 1/4" tripod connection, protective case with visor, professional shockproof carrying case

ORDER NO.	EAN-CODE	PU
082.085A	4 021563 684458	1

Productivity Tools



CustomColorPalettes
Create your own colour palettes, Enter complex settings quickly and reliably

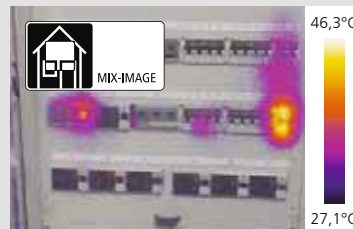
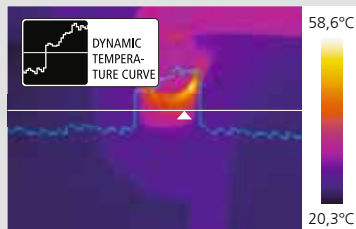
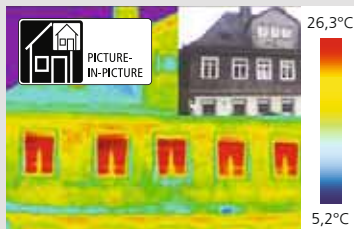
Optional FixPod
155 cm



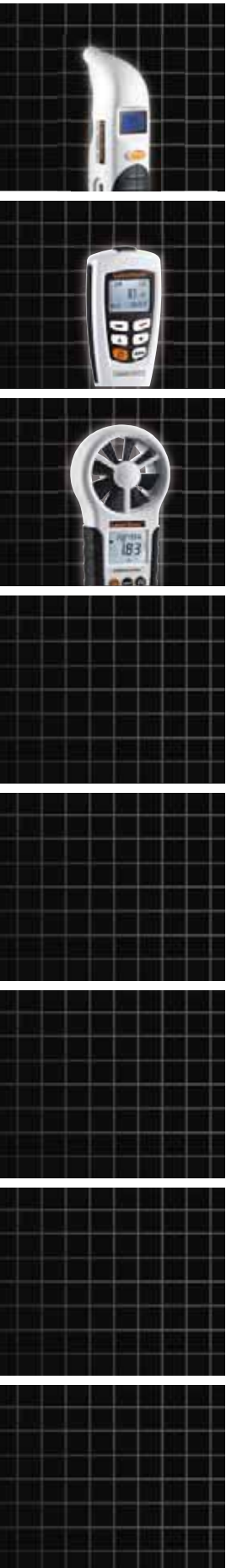
QuickRange-Setup
Optimum measurement range set with hot key



CustomApps
Configuration of optimised parameter templates (apps) for individual applications



Environment and special measuring devices



Measurement of light, air flow and sound

LuxTest-Master



- Professional lighting intensity measuring instrument**
- Measurement of lighting intensity in workplaces, offices, public buildings and industry
 - Sensitive photodiode with cosine correction for wide-angle light measurement
 - Relative measurement function for reference and comparison measurement
 - Peak function for registering fast changes in light levels
 - Hold function
 - Automatic and manual range changeover
 - Zeroing function
 - Measurement variables: Lux (lm/m²), foot candle (lm/ft²)
 - Min/Max display
 - 1/4" tripod connection

Measuring range:
20 Lux...200000 Lux

Accuracy:
± 3% (reference light bulb at 2854 K)

Cosine angular deviation:
± 2% (30°), ± 6% (60°)

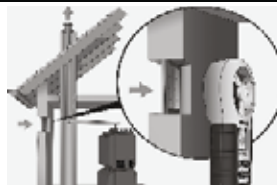
Inclusive: LuxTest-Master, battery, carrying case

ORDER NO.	EAN-CODE	PU
082.130A	4 021563 680535	2

082.130A 4 021563 680535 2



AirflowTest-Master



- Professional anemometer for measuring air flow, volumetric flow and wind speed**
- Integrated sensor for measuring ambient temperature, relative humidity and dew point calculation
 - USB interface for saving measured data
 - PC software for real-time logging
 - Large impeller: 65 mm
 - Min/Max display
 - 1/4" tripod connection for long-term measurement
 - Illuminated, clearly arranged display with permanently visible ambient temperature and relative humidity

Measuring range / Accuracy:

Flow rate: 0.80...30 m/s / ± 2%

Ambient temperature: -10...60°C / ± 1.5°C

Relative humidity: 20%...80% / ± 3%

Measuring range:
Airflow: 0...99990 CMM

Inclusive: AirflowTest-Master, software, USB Cable, batteries, carrying case

ORDER NO.	EAN-CODE	PU
082.140A	4 021563 680566	2

082.140A 4 021563 680566 2



DATA-RECORDING at the PC



SoundTest-Master



- Noise level measuring instrument with integrated long-term storage**
- Measurement of noise levels with frequency weighting filter according to dB (A) and dB (C) standard curves as per IEC 61672 (type 2)
 - Selectable time weighting factors (fast 125 ms/slow 1 s) for optimum adaptation to noise dynamics
 - Long-term recording function with 16,000 storage points or real-time logging on PC
 - Selectable analogue indicator for visual assessment
 - Calibrated and adjusted by means of standard 94 dB/1 kHz noise level calibrator
 - Sensitive electret condenser microphone with detachable wind guard
 - Analogue outputs: DC and AC
 - PC software
 - Illuminated, transparent display

Measuring range / Accuracy:
30...130 dB (A,C) / ± 1.5 dB

Frequency range:
31.5 Hz...8 KHz

Inclusive: SoundTest-Master, software, USB cable, batteries, carrying case

ORDER NO.	EAN-CODE	PU
082.070A	4 021563 676330	2

082.070A 4 021563 676330 2



DATA-LOGGING/RECORDING directly and at the PC



Measurement of tyre pressure and paint layer thicknesses

TireCheck



Digital tester for checking tyre pressure and heating reservoirs

- For checking tyre pressure in psi and bar
- Digital gauge for checking tread depth
- In the heating installation measuring the pressure at reservoirs
- Auto Power-off: the device switches off automatically when left idle for 90 seconds.
- Illuminated LC-display

Tyre pressure

Measuring range: 0.21 - 6.85 bar max.
(3.0 - 99.5 psi max.)
Accuracy: ± 0.1 bar / ± 1.5 psi
Resolution: 0.03 bar / 0.5 psi

Tread depth

Measuring range: 0 - 15.8 mm
Accuracy: ± 0.5 mm
Resolution: 0.1 mm

Inclusive: TireCheck, batteries

ORDER NO.	EAN-CODE	PU
082.180A	4 021563 690077	5



CoatingTest-Master



Coating thickness measuring instrument for measuring non-metallic layers on metal surfaces

- Coating thickness measurement based on induction or eddy current principle
- Measurable coatings: non-magnetic coatings (paint), insulating coatings (paint) on non-ferrous metals
- Automatic identification of base material (ferrous / ferromagnetic, non-ferrous / non-ferromagnetic)
- Internal memory for 400 measured values
- One-point and two-point calibration
- USB interface for transferring measurement data and software evaluation
- Min/Max/Avg display
- Illuminated, transparent display

Magnetic induction

Measuring range: 0...1250 µm
Accuracy: 0...850 µm / (± 3% ± 1 µm), 850...1250 µm / (± 5%)

Eddy current principle

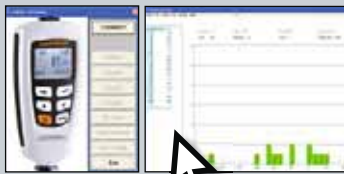
Measuring range: 0...1250 µm
Accuracy: 0...850 µm / (± 3% ± 1 µm), 850...1250 µm / (± 5%)

Inclusive: CoatingTest-Master, calibration references, software, USB cable, batteries, carrying case

ORDER NO.	EAN-CODE	PU
082.150A	4 021563 680597	2



2 x AAA



DATA-LOGGING /-RECORDING directly and at the PC

COATING THICKNESS MEASUREMENT

Non-destructive measurement of coating thicknesses is used in many applications. Precision and selective coating thickness measurement is not only required for quality control in paintshops and in the automobile industry but, by inspecting material coating quality, it also enables long-term corrosion protection of metal components.



Automatic identification of base material:
FE: ferrous / ferromagnetic
NFe: non-ferrous / non-ferromagnetic



Small measuring head for coating thickness measurement with pinpoint accuracy



Video inspection



Video endoscopes

MICRO-DIGITAL INSPECTION

Special applications and places difficult to access require innovative solutions to ensure optimum use. The smaller and more stable the camera unit the more varied the applications – whether used at home, in industry or by craftsmen.

Powerful technology

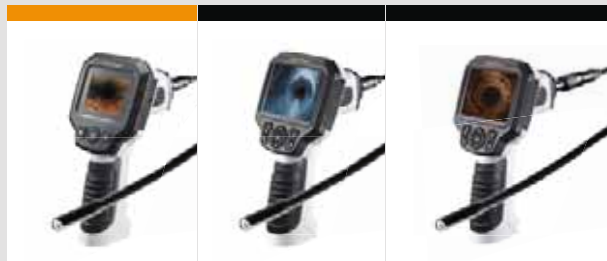


Different sized camera heads for various applications



EXTRA LONG VIDEO INSPECTION SYSTEM

Overview



	VideoScope One / Home	VideoScope Plus / XXL	VideoFlex G3 / Micro / XXL / Ultra			
Colour display	●	●	●			
180° image rotation	●	●	●			
Zoom function	●	●	●			
LED lighting	●	●	●			
Data storage		●	●			
Image recording		●	●			
Video recording		●	●			
TV Out connection	●	●	●			
Length of flex cable	1.5 m / 2 m	2.0 m / 5,0 m	1.5 m	1.5 m	5 m	10 m
Camera head ø	9 mm	9 mm	9 mm	6 mm	9 mm	9 mm
Camera head / IP class	IP 67 IP 68	IP 68	IP 68			
Li-Ion battery pack			●			
Accessory TopClips G3	○	○	●		●	●
Accessory TopGuide G3	○	●	●		●	●

● = available ○ = optional



Video endoscopes



VideoScope One

Compact inspection camera for visual inspections of areas which are difficult to access

- The camera head on the flexible cable transmits images directly to the LC monitor.
- Powerful object lighting thanks to 4 high-performance LEDs
- 2x digital zoom in 10% increments
- DOF: Focal depth 3...7 cm
- Connection of external monitors via TV Out
- The compact camera head is small enough to inspect even inaccessible areas.
- Manual image rotation by 180° on the monitor
- Camera head: ø 9 mm



Inclusive: VideoScope One 1.5 m, batteries

ORDER NO.	EAN-CODE	PU
082.252A	4 021563 691272	2

CAMERA	320 x 240 pixel	LED LIGHT	IP 67	DISPLAY	320 x 240 pixel	2,7" LCD	180°	ZOOM 2x	VIDEO OUT	4x AA
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VideoScope Home

Product description same as VideoScope One
- With 2 m ScopeCamera

Inclusive: VideoScope Home 2 m, batteries



ORDER NO.	EAN-CODE	PU
082.253A	4 021563 696086	2

CAMERA	320 x 240 pixel	LED LIGHT	IP 68	DISPLAY	320 x 240 pixel	2,7" LCD	180°	ZOOM 2x	VIDEO OUT	4x AA
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VideoScope Plus Set

NEW

Compact inspection camera with featuring record function

- The camera head on the flexible cable transmits images directly to the LC monitor.
- REC-Function: still picture and video can be recorded for a later analysis.
- Formattable SDHC-card
- Direct data transfer to PC
- Powerful object lighting thanks to 4 high-performance LEDs
- 1.5x digital zoom in 10% increments
- DOF: Focal depth 3...7 cm
- Connection of external monitors via TV Out
- The compact camera head is small enough to inspect even inaccessible areas.
- Manual image rotation by 180° on the monitor
- Camera head: ø 9 mm



Inclusive: VideoScope Plus 2 m, TopGuide G3, USB/REC cable, software, batteries, carrying case

ORDER NO.	EAN-CODE	PU
082.256A	4 021563 691296	2

CAMERA	640 x 480 pixel	LED LIGHT	IP 68	DISPLAY	320 x 240 pixel	3,5" LCD	180°	ZOOM 1,5x	REC	SD	USB	VIDEO OUT	4x AA	HARD
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VideoScope XXL Set

NEW

Product description same as VideoScope Plus
- With 5 m XXL Camera
- DOF: Focal depth 1...6 cm

Inclusive: VideoScope XXL 5 m, TopGuide G3, USB/REC cable, software, batteries, carrying case



ORDER NO.	EAN-CODE	PU
082.258A	4 021563 703739	2

Video endoscopes



TopClips G3



Clip mechanism for easy attachment and removal on 9 mm camera head



TopGuide G3

The specially ground sleeve allows for optimal gliding on uneven surfaces, for example dirty pipes.

ø 9 mm



MultiConnect-System G3

VideoFlex G3



1,5 m
DOF 1...6 cm

Professional video inspection system for visually inspecting areas that are difficult to access – also over great distances

- FlexCamera G3 1,5 m: The camera head on the flexible cable transmits images directly to the LC monitor.
- Powerful object lighting thanks to 4 high-performance LEDs
- Bright LED lighting means that the camera is able to provide clear still images and video recordings even when lighting conditions are at their poorest.
- 1.5x digital zoom in 10% increments
- Connection of external monitors via TV Out
- The compact camera head is small enough to inspect even inaccessible areas.
- REC-Function: still picture and video can be recorded for a later analysis.
- Formattable SDHC-card
- Direct data transfer to PC
- Screen size: 3.5"
- Manual 180° image rotation on the monitor
- Mirror function for correcting mirror-inverted images.
- DOF: Focal depth 1...6 cm
- Quick replacement of camera snake depending on the application (Accessories Flex-, XXL-, Micro- and UltraCamera G3)



Image format / video format:

JPEG / AVI

Internal (external): Supports up to max. 8 GB SDHC-card

RECHARGE LI-ION BATTERY PACK

Inclusive: VideoFlex G3, FlexCamera G3 1,5 m, Camera head: ø 9 mm
Accessories: Li-Ion battery pack, power supply/battery charger incl. international adapter, USB/REC cable, software, 4 GB micro-SD, video cable, TopClips G3, TopGuide G3, carrying case

ORDER NO.	EAN-CODE	PU
082.212A	4 021563 694983	2

VideoFlex G3 Micro



1,5 m
DOF 1...6 cm

Product description same as VideoFlex G3 with MicroCamera G3 1,5 m
- DOF: Focal depth 1...6 cm

Inclusive: VideoFlex G3, MicroCamera G3 1,5 m, Camera head: ø 6 mm
Accessories: same as VideoFlex G3 without TopClips G3, TopGuide G3

ORDER NO.	EAN-CODE	PU
082.211A	4 021563 694990	2

VideoFlex G3 XXL



5 m
DOF 1...6 cm

Product description same as VideoFlex G3 with XXLCamera G3 5 m
- DOF: Focal depth 1...6 cm

Inclusive: VideoFlex G3, XXLCamera G3 5 m, Camera head: ø 9 mm
Accessories: same as VideoFlex G3

ORDER NO.	EAN-CODE	PU
082.213A	4 021563 698844	2

VideoFlex G3 Ultra



10 m
DOF 1...6 cm

Product description same as VideoFlex G3 with UltraCamera G3 10 m
- DOF: Focal depth 1...6 cm

Inclusive: VideoFlex G3, UltraCamera G3 10 m, Camera head: ø 9 mm
Accessories: same as VideoFlex G3

ORDER NO.	EAN-CODE	PU
082.210A	4 021563 695003	2



ø 9 mm



ø 6 mm



ø 9 mm



ø 9 mm

CAMERA

640 x 480 pixel



LED LIGHT



IP 68

DISPLAY

320 x 240 pixel

3,5" LCD



180°

ZOOM 1,5x



Li-Ion Battery



RECHARGE



HARD

Pipe / drain cameras building inspection



Rolladapter



RA 25

 > 96 mm



RA 31

 > 160 mm

Rolladapter
 For the axial alignment of the PipeControl camera units in pipes, chimneys and ventilation shafts

VideoControl-Master



IMAGE-/VIDEO-VIEWER/ EDITING SYSTEM at the PC

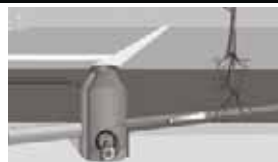
- Connection for various camera units
- 5.0" colour display and illuminated buttons

Video format:	ASF / 30 frames / sec
Image format:	JPEG format
External memory:	Supports up to max. 16 GB SDHC-card
Humidity:	max. 90 % relative humidity (no condensation)
LED:	10 brightness levels




SafetyLens and CameraProtector
 Camera head with separate lens cover to provide protection from contamination and impact

PipeControlMobile set



20 m
 DOF 5...60 cm



RA 25

 > 96 mm

VideoControl-Master
 – Modular, versatile master unit for professional and efficient fault finding in manufacturing and the construction industry
 – Large, high resolution 5.0" colour display powerfully backlit for detailed image analysis
 – Integrated still image and video recording function
 – Data storage on SD card
 – USB 2.0 interface for PC data transfer
 – Operation of external monitors possible
 – Rechargeable Li-Ion battery
 – Sturdy, water-protected design

PipeControlMobile-Camera
 – Easy-to-handle camera unit for mobile use
 – 25 mm stainless steel camera head with replacement adapter
 – Stand-up reel with 20 m cable, DOF: Focal depth 5...60 cm
 – No pull-back thanks to flexible coil spring
 – 12 high-performance LEDs for adjustable, powerful object lighting
 – Stable, reinforced feed cable (ø 5.8 mm) for precise and safe camera guidance
 – With Rolladapter for pipes > 96 mm



Mobile-Camera Unit

Camera head can be replaced via adapter

Inclusive: VideoControl-Master, PipeControlMobile-Camera 20 m, USB-cable, software, 4 GB SD-card, power supply/battery charger incl. international adapter, AV-cable, carrying strap, Rolladapter, SafetyLens, CameraProtector 25 mm, complete in the L-BOXX 238

ORDER NO.	EAN-CODE	PU
084.121L	4 021563 688364	1

VIDEOCONTROL-MASTER



CAMERA



Pipe / drain cameras building inspection



LEVELFLEX



LevelFlex: Horizontal self-alignment for optimum image playback



Camera head with 12 high-performance LEDs



PipeControl-LevelFlex set



30 m
DOF 5...60 cm

RA 31



> 160 mm

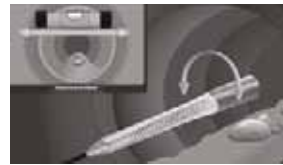


VideoControl-Master

- Modular, versatile master unit for professional and efficient fault finding in manufacturing and the construction industry
- Large, high resolution 5.0" colour display powerfully backlit for detailed image analysis
- Integrated still image and video recording function
- Data storage on SD card
- USB 2.0 interface for PC data transfer
- Operation of external monitors possible
- Rechargeable Li-Ion battery
- Sturdy, water-protected design

PipeControl-LevelFlex-Camera

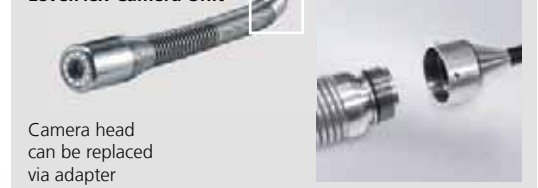
- Professional camera unit with integrated self-levelling for optimum camera alignment
- 31 mm stainless steel camera head with replacement adapter
- No pull-back thanks to flexible coil spring
- 12 high-performance LEDs for adjustable, powerful object lighting at the camera
- Robust, sturdy stand-up reel with a cable length of 30 m
- Stable, reinforced feed cable (ø 6 mm) for precise and safe camera guidance
- With Rolladapter for pipes > 160 mm



CAMERA

Camera type:	CMOS image sensor
Camera head / cable:	ø 31 mm, IP 68 (immersion depth 20m, 1h)
Field of vision:	71°
Focal depth:	5...60 cm
Cable diameter:	6 mm
Cable length:	30 m
Minimum bending radius:	39 cm

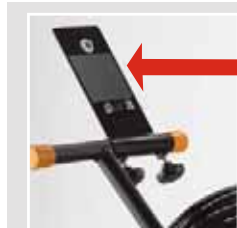
LevelFlex-Camera Unit



Camera head can be replaced via adapter

Inclusive: VideoControl-Master, PipeControl-LevelFlex-Camera 30 m, USB cable, software, 4 GB SD-card, power supply/battery charger incl. international adapter, AV-cable, carrying strap, Rolladapter, control cable, complete in the L-BOXX 136

ORDER NO.	EAN-CODE	PU
084.134L	4 021563 691944	1



Holder for VideoControl-Master



ø 31 mm

VIDEOCONTROL-MASTER



CAMERA



Electrical meters



Battery, phase and voltage testers

BUILDING INSTALLATIONS AND ELECTRICAL SYSTEMS

Whether non-contact voltage tester, fully-protected multimeter or universal cable tracer: Professional tradesmen appreciate the varied functions of electrical tester and will find the right measuring instrument for the job here. The user guide provides an overview of electrical test segments and working ranges.

Overview



Working ranges

	ActivePen	AC-Check	Active Finder Plus	Active Finder XP	ActiveTester	ActiveMaster	ActiveMaster Digital
Detecting AC	200 - 600 V contactless	5 - 1000 V contactless	24 - 1000 V contactless	12 - 1000 V contactless		110 - 230 V	110 - 230 V
Locating Electrical / metal lines							
Verifying Function / continuity test	phase	phase	phase	phase		continuity / phase	continuity / phase
Identifying Voltages					12, 24, 36, 50, 120, 230, 400 V	12, 24, 36, 50, 120, 230, 400, 690 V	12, 24, 36, 50, 120, 230, 400, 690 V
Quantifying Units							5 - 690 V
Overvoltage categories CAT	CAT III 600V	CAT III 1000V	CAT III 1000V	CAT IV 1000V	CAT III 400V	CAT II 1000V CAT III 1000V CAT IV 600V	CAT II 1000V CAT III 1000V CAT IV 600V



LiveCheck LiveTester Plus

Verifying / function test	wiring, L/N position, PE conductor	wiring, L/N position, PE conductor/ fault voltage indicator, FI/RCD quick test
Overvoltage categories CAT	CAT II 300V	CAT II 300V

Multimeters and cable detectors

Detecting

Detecting electrical alternating fields / potential

Locating

Locating line routing with transmitter and receiver

Verifying

Function and continuity test

Identifying

Identifying voltages

Quantifying

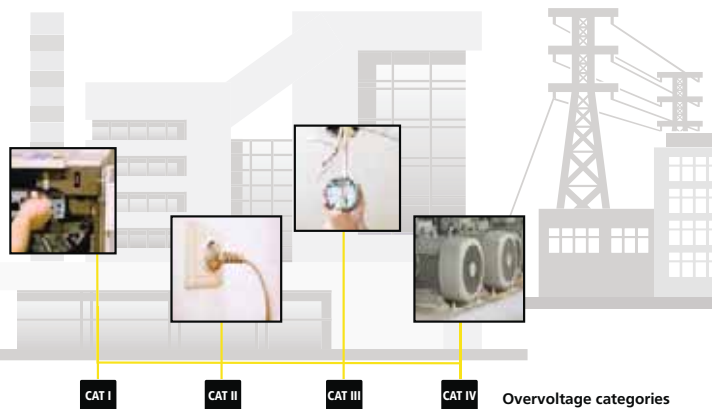
Determining electrical variables

Overvoltage categorie

Safety classification of working voltage and voltage peaks

Electrical variable	Description	Unit	Alternating current = AC / Direct current = DC
U	Voltage	V (volt)	AC / DC
I	Current	A (ampere)	AC / DC
R	Resistance	Ω (ohm)	DC
C	Capacitance	F (farad)	DC
f	Frequency	Hz (hertz)	AC
V	Duty factor	% (percent)	AC

MultiMeter-Home	MultiMeter	MultiMeter-PocketBox	MultiMeter-Pocket	MultiMeter-Compact	MultiClamp-Meter	LAN-Check	CableChecker	MultiCable-Checker	AC-Tracer	CableTracer Pro
			110 - 230 V contactless	110 - 230 V contactless	110 - 230 V contactless					110 - 230 V contactless
						zero-potential	zero-potential	zero-potential	200 - 250 V mains voltage	12 - 250 V zero-potential/ mains voltage
		continuity	continuity / phase	continuity / phase	continuity	break, short circuit, miswire, reversal		break, short circuit, miswire, reversal		
alkaline battery test	alkaline battery test, NiMH									12, 50, 120, 230, 400 V
V, A, Ω	V, A, Ω	V, A, Ω	V, A, Ω	V, A, Ω, F, %, Hz	V, A, Ω					



Battery and phase testers



BatteryCheck



Battery tester for checking battery charge level

- For checking all commonly used batteries (AA / AAA / C / D / E-block / button cell – small)
- Easy to read, 3-colour scale to display the battery charge level
- Easy to use with sliding battery holder and clearly accessible contacts
- Operates without batteries
- Small, compact design (fits in any toolbox)

Measuring range: 1.5 V / 9.0 V

Inclusive: BatteryCheck

ORDER NO.	EAN-CODE	PU
083.005A	4 021563 690022	5

PowerCheck



Battery tester for checking battery and rechargeable battery charge level

- For checking all commonly used batteries and rechargeable batteries (e.g. AA / AAA / C / D / E-block / button cell – small/large)
- For checking various battery systems with one device: Alkali (AlMn), zinc carbon (ZnC), lithium (LiMnO₂), nickel metal hydride (NiMH)
- Charge level shown on LCD scale
- Small, compact design (fits in any toolbox)

Measuring range: 1.2 V / 1.5 V / 3.0 V / 8.4 V / 9.0 V

Inclusive: PowerCheck, battery

ORDER NO.	EAN-CODE	PU
083.006A	4 021563 687879	5

1x
AAA

TipTest Duo set



Phase tester for quickly checking the L-conductor at electrical connections

- Reliable and fast phase testing
- Simple and well-proven tool
- Compact design with convenient clip, practical for shirt pockets and tool boxes
- Two phase testers of different lengths

Measuring range: 150 V...250 V
Frequency range: 50 Hz...500 Hz

Inclusive: TipTest Duo

ORDER NO.	EAN-CODE	PU
083.009A	4 021563 695645	5



ActivePen



Safe non-contact voltage check

- Locates electrical voltages in cables, sockets, bulb sockets and fuses
- Determines polarity of L/N conductors, e.g. on sockets or terminals
- Finds breaks in wires and cables
- Clearly visible LED

Voltage range: 200 V/AC...600 V/AC, frequency: 50...60 Hz

Inclusive: ActivePen, batteries

ORDER NO.	EAN-CODE	PU
083.007A	4 021563 690039	5



AC-Check



Non-contact voltage tester with adjustable sensitivity

- Locates electrical voltages in cables, sockets, bulb sockets and fuses
- Determines polarity of L/N conductors, e.g. on sockets or terminals
- Finds breaks in wires and cables
- Extremely high sensitivity for tracing lines at great depths
- Clearly visible LED

Voltage range: 5...1000 V/AC, frequency: 50...400 Hz

Inclusive: AC-Check, batteries

ORDER NO.	EAN-CODE	PU
083.008A	4 021563 687862	5



Voltage and continuity testers

ActiveFinder Plus



- Contactless handy voltage tester – work safely on electrical lines**
- Locates electrical voltages in cables, sockets, bulb sockets and fuses
 - Finds breaks in wires and cables
 - Extremely high sensitivity for tracing lines at great depths (Zoom)
 - Clearly visible LED for signalling electrical voltages
 - Integrated flashlight

Voltage range:
24...1000 V/AC, frequency: 50...60 Hz

Inclusive: ActiveFinder, batteries, softbag

ORDER NO.	EAN-CODE	PU
083.011A	4 021563 695638	5



ActiveFinder XP



- Professional, contactless voltage tester – localisation of electrical wiring and systems**
- Locates electrical voltages in cables, sockets, bulb sockets, fuses as well as control cabinet and system components
 - Determines polarity of L/N conductors, e.g. on sockets or terminals
 - Finds breaks in wires and cables
 - For tracing lines at great depths (Zoom)
 - Electrical voltages displayed with optical LED multi-colour signalling, and acoustic and vibration warning
 - Super-bright, integrated flashlight
 - Rugged, impact-resistant waterproof housing

Voltage range:
12...1000 V/AC, frequency: 50...60 Hz

Inclusive: ActiveFinder XP, batteries, softbag

ORDER NO.	EAN-CODE	PU
083.013A	4 021563 698905	5



ActiveTester



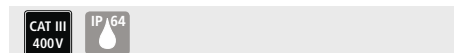
- Universal voltage tester for the entire electrical system of buildings**
- Reliable and fast voltage tester with the most commonly used nominal voltages
 - Automatic AC voltage and DC voltage test
 - Automatic range and function changeover for direct testing and measurement
 - Operates without batteries
 - Rugged, practical enclosure in space-saving mini design

Voltage range:
12, 24, 36, 50, 120, 230, 400 V/AC
+/-12, 24, 36, 50, 120, 230, 400 V/DC

LED indicator:
12, 24, 36, 50, 120, 230, 400 V polarity plus/minus

Inclusive: ActiveTester, protective covers

ORDER NO.	EAN-CODE	PU
083.020A	4 021563 671151	5



ActiveMaster



- Reliable measuring device for testing voltage and continuity**
- Voltage tester with the most commonly used nominal voltages
 - Automatic AC voltage and DC voltage test
 - Automatic range and function changeover
 - Single-phase and rotary field test with phase sequence display
 - Single-pole phase testing
 - Safety self-test (AC warning) as from 50 V, operates in emergency mode without battery
 - Rugged, practical enclosure with lockable test prod spacing (for standard EU connector)

Voltage range: 12, 24, 36, 50, 120, 230, 400, 690 V AC/DC
Peak current: Is < 3.5 mA

Inclusive: ActiveMaster, protective covers, batteries

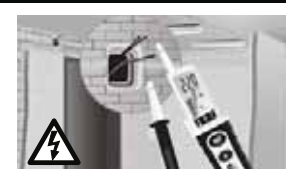
ORDER NO.	EAN-CODE	PU
083.021A	4 021563 671168	5



ActiveMaster Digital



- Digital voltage and continuity tester with bar graph and numerical measured value display**
- Voltage tester with the most commonly used nominal voltages
 - Automatic AC voltage and DC voltage test
 - Automatic range and function changeover for direct testing and measurement
 - Single-phase and rotary field test with phase sequence display
 - Single-pole phase testing
 - Automatic continuity tester with acoustic signal
 - Safety self-test (AC warning) as from 50 V, operates in emergency mode without battery
 - Rugged, practical enclosure with lockable test prod spacing (for standard EU connector)



LC-display / resolution: 3.5 places, 1999 digit / 1 V AC/DC (numerical display)
Voltage range: 6, 12, 24, 50, 120, 230, 400, 690 V AC/DC (bar graph display)
Peak current: Is < 3.0 mA

Inclusive: ActiveMaster Digital, protective covers, batteries

ORDER NO.	EAN-CODE	PU
083.025A	4 021563 679836	2



Multimeters



MultiMeter-Home



- Compact analogue multimeter for measuring tasks at home and for hobbies**
- Precise voltage, current and resistance measurement
 - Battery test function for measuring battery charge status
 - Function and range changeover without reconnecting cables
 - Large, easy-to-read analogue scale with zero point adjustment
 - Compact casing with integrated test leads

Voltage range:	V/DC: 12 V...300 V, ± 5%
	V/AC: 60 V...300 V, ± 5%
Current range:	A/DC: 30 mA...600 mA, ± 5%
Resistance range:	10 kΩ...1 MΩ, ± 5%

CAT III 300V 1x AAA

Inclusive: MultiMeter-Home, 2 test prods, batteries

ORDER NO.	EAN-CODE	PU
083.030A	4 021563 671175	5

MultiMeter



- Compact universal multimeter for all every day measuring tasks at home and for hobbies**
- Precise voltage, current and resistance measurement
 - Battery test function for measuring battery charge status and accus
 - Diode test function for determining integrity and polarity
 - Large, easy-to-read LC display

Voltage range:	V/DC: 0.2 V...200 V, ± (0.8% rdg + 5 digit)
	V/AC: 200 V...300 V, ± (1.2% rdg + 10 digit)
	300 V, ± (1% rdg + 5 Ddigit)
Current range:	A/DC: 2 mA...200 mA / 10 A, ± (1.2% / 2% rdg + 5 digit)
Resistance range:	0.2 kΩ / 2...200 kΩ / 2 MΩ, ± (1% / 0.8% / 1.2 % rdg + 5 digit)

CAT III 300V 9V

Inclusive: MultiMeter, 2 test prods, batteries

ORDER NO.	EAN-CODE	PU
083.031A	4 021563 694518	5

MultiMeter-PocketBox



- Universal multimeter in practical box format with automatic range changeover**
- Precise voltage, current and resistance measurement
 - Automatic continuity tester
 - Diode test function for determining integrity and polarity
 - Automatic function and range changeover without reconnecting cables
 - Easy-to-read LC display
 - Hold function

Voltage range:	V/DC: 0.2 V...200 / 250 V, ± (0.8% / 1% + 5 digit)
	V/AC: (40 - 400 Hz): 2 mV...200 / 250 V, ± (1% / 1.2% + 5 digit)
Current range:	A/DC: 20 mA...200 mA, ± (1.2% + 5 digit)
	A/AC: (40 - 400 Hz): 20 mA...200 mA, ± (1.5% + 5 digit)
Resistance range:	0.2 kΩ / 0.2 kΩ...200 kΩ, ± (1.2% / 1% + 5 digit)
	200 kΩ...2 MΩ / 2 MΩ...20 MΩ, ± (1.2% / 1.5% + 5 digit)

CAT III 300V AutoSound 2x LR44

Inclusive: MultiMeter-PocketBox, 2 test prods, batteries

ORDER NO.	EAN-CODE	PU
083.028A	4 021563 690053	5

MultiMeter-Pocket



- Fully protected universal multimeter – for measurements in all building installations**
- Automatic continuity tester
 - Diode test function for determining integrity and polarity
 - Integrated contactless voltage indicator
 - Single-pole phase testing
 - Fully protected design in all measuring ranges prevents operating errors
 - Super-bright integrated flashlight

Voltage range:	V/DC: 0.2 V...600 V, ± 1.2%
	V/AC: 2 V...600 V, ± 2.3%
Current range:	A/DC: 0 ... 200 mA, ± 2%
	A/AC: 0 ... 200 mA, ± 2.5%
Resistance range:	0.2 kΩ...200 kΩ / 2 MΩ / 20 MΩ, ± (1.2% / 5% / 10%)

CAT III 1000V AutoSound IP 64 2 x AAA

Inclusive: MultiMeter-Pocket, 2 test prods, batteries

ORDER NO.	EAN-CODE	PU
083.032A	4 021563 671229	5

Multimeters and installation testers



MultiMeter-Compact



- Professional multimeter with all functions for exact electrical measurement**
- Precise voltage, current, resistance, capacitance, frequency and duty factor measurement
 - Automatic range changeover and manual range preselection
 - Automatic continuity tester
 - Diode test function for determining integrity and polarity
 - Integrated contactless voltage indicator with acoustic, visual and vibration warning
 - High measurement resolution for precisely determining different measurement variables
 - Compact, impact-resistant enclosure with base support and selector switch
 - Large, easy-to-read LC display

Voltage range:	V/DC: 0.4 V / 4...40...400 V / 600 V ± (0.5% / 1.2% / 1.5%) V/AC: 0.4 V / 4 V / 40...400 V / 600 V ± (1.5% / 1.2% / 1.5% / 2.0%)
Current range:	A/DC: 0...10A, ± 2.5% A/AC: 0...10A, ± 3.0%
Resistance range:	0.4...4...40...400 kΩ...4 MΩ / 40 MΩ ± (1.2% / 2.0%)
Capacitance range:	40nF / 400nF...4μF...40μF / 100μF ± (5% / 3% / 5%)
Frequency range:	0...10MHz / ± 1.5%
Duty factor range:	0.1...99.9% / ± 1.2%

Inclusive: MultiMeter-Compact, 2 test prods, battery

ORDER NO.	EAN-CODE	PU
083.034A	4 021563 671236	5

083.034A 4 021563 671236 5



MultiClamp-Meter



- Professional current and voltage clamp meter with true r.m.s. measurement**
- Measurement in all closed current circuits (AC/DC)
 - Automatic continuity tester with acoustic signal
 - Automatic diode measurement
 - Peak-HOLD function for determining short-term making current
 - High measurement resolution for precisely determining current, voltage and resistance
 - Integrated contactless voltage indicator to quickly determine live parts
 - MIN/MAX function for determining changing measurement variables
 - Bright LED lighting for integrated test point illumination
 - Backlit LC display with bar graph display

Voltage range:	V/DC: 0...600 V / ± 1.5% V/AC: 0...600 V / ± 1.0%
Resistance, continuity test:	600 V AC/DC
Current range:	A/AC: 0...200 A / ± 2.5% (PEAK 282,8 AAC) A/DC: 0...200 A / ± 2.0%
Frequency range:	50/400Hz AC (True RMS)

Inclusive: MultiClamp-Meter, 2 test leads, batteries

ORDER NO.	EAN-CODE	PU
083.040A	4 021563 671205	5

083.040A 4 021563 671205 5



LiveCheck



- Check sockets for greater safety at home**
- Reliable tool for professional tradesmen and DIY enthusiasts
 - Connection test for finding faulty wiring in sockets
 - Finds sockets with incorrectly installed PE conductor
 - Checks L/N polarity to ensure safe connections of devices to the power supply
 - Code key for evaluating measurement results

Measuring range:	230 V / ± 10%
Frequency range:	50 Hz

Inclusive: LiveCheck

ORDER NO.	EAN-CODE	PU
083.026A	4 021563 694488	5

083.026A 4 021563 694488 5



LiveTester Plus



- Safety test for power socket installation including test of the FI/RCD circuit breaker**
- Reliable tool for professional tradesmen and DIY enthusiasts
 - Connection test for finding faulty wiring in sockets
 - PE conductor fault indicator with LC display signals fault voltages.
 - Checks L/N polarity to ensure safe connections of devices to the power supply
 - 30 mA FI/RCD quick test for checking FI/RCD circuit breakers
 - Code key for evaluating measurement results

Measuring range:	230 V / ± 10%
Frequency range:	50 Hz
FI/RCD test current:	30 mA / ± 15%

Inclusive: LiveTester Plus

ORDER NO.	EAN-CODE	PU
083.027A	4 021563 694495	5

083.027A 4 021563 694495 5



Cable testers and detectors

LAN-Check



Compact LAN cable connection tester

- For off-circuit electrical systems
- Checks LAN network cable assemblies (assigns the individual conductors)
- Tests wire allocations and analyses line routing
- Suitable for shielded (STP) and unshielded (UTP) Ethernet cables
- Analysis of the most common fault cases: break, short circuit, miswire, reversal
- Signal LED for clear status indication

Inclusive: LAN-Check, batteries

ORDER NO.	EAN-CODE	PU
083.064A	4 021563 694716	5



CableChecker



Cable and conductor tester with transmitter and receiver for LAN, TV, telephone and audio cables

- For off-circuit electrical systems
- Analyses LAN, TV, telephone, audio and other cables in electrical systems.
- Non-contact tracing of the transmission signal by the receiver
- Loud test signal for identification of the selected cable
- Transmitter with integrated test adapters (RJ11, RJ45, TV-coax)
- Universal testing terminals for the connection to any conductor

Receiver CableChecker REC V

Measuring range scan-modus: 0...5 cm measuring depth



Inclusive: transmitter CableChecker TX, receiver REC V, adapter, testing terminals, batteries

ORDER NO.	EAN-CODE	PU
083.065A	4 021563 694471	5



MultiCable-Checker



Cable tracer set with transmitter and receiver for LAN, SAT, TV, telephone and audio cables

- For off-circuit electrical systems
- Tests wire allocations and analyses line routing
- Checks LAN-network cable assemblies (assigns the individual conductors).
- Analyses LAN, SAT, TV, telephone, audio and other cables in electrical systems.
- Integrated continuity tester
- The receiver traces cables up to a depth of 5 cm – contactless.
- Comprehensive accessories set for testing the most commonly used types of plug-in connections
- Universal testing terminals for the connection to any conductor
- Integrated LED flashlight



Receiver MultiCable-Checker REC V

Measuring range scan-modus: 0...5 cm measuring depth

Inclusive: transmitter MultiCable-Checker TX, receiver REC V, adapter (RJ11, RJ45, BNC, TV-coax, F-adapter), testing terminals, headphones, batteries, carrying case

ORDER NO.	EAN-CODE	PU
083.062A	4 021563 694709	5



AC-Tracer



Cable tracer set with transmitter and receiver

- Non-contact tracing of the transmission signal by the receiver
- Fast tracing of coherent electrical circuits.
- Location of lines in coherent, live electrical circuits
- Detection of fuse circuits in live installations
- Receiver with audible signal tone for locating measured objects
- Receiver with adjustable sensitivity for optimum fine adjustment
- Socket adapter for direct and fast testing in building installations
- E27 lamp adapter for direct and fast testing in lamp circuits.



Receiver AC-Tracer REC V

Measuring range: 0...5 cm measuring depth

Inclusive: transmitter AC-Tracer TX, receiver REC V, EURO connector, UK-plug (Great Britain), E27 Lamp adapter, battery, carrying case

ORDER NO.	EAN-CODE	PU
083.050A	4 021563 672103	5



Cable detectors

Transmitter/receiver line testers – Measurement with transmitter and receiver. The sender feeds coded signals into the cable to be checked. The signal is a modulated current that creates an electromagnetic field about the conductor. The receiver recognises this field, decodes it and is then able to find and locate cables with this signal. Ideal for taking stock of electrical installations and metal line systems.



Inaccessible cables:
Line detection up to measuring depth of 2 m – e.g. suspended ceilings or underground cables



Easy location of fuses in switch boxes



- NON-CONTACT
- V 400 12
230
120
50
- PHASE TEST
- SIGNAL
- FLASHLIGHT

CableTracer Pro



Universal, flexible cable tracer set including transmitter and receiver

- Non-contact tracing of the transmission signal by the receiver
- Locates electrical cables, fuses, circuit breakers, metal pipes (such as heating pipes) and much more.
- Locates interrupted cables in existing installations and short-circuits in existing installation cables.
- May be used with or without mains voltage.
- High frequency of 125 kHz
- Display of DC and AC voltages.
- Signal coding allows as many as 7 senders to be used with one receiver and is thus ideal for complex installation settings.
- Integrated AC voltage detector
- Permanent AC voltage warnings
- Integrated illumination of measuring points
- Clearly arranged, illuminated displays

Receiver CableTracer RECV

Measuring range: 0...2 m measuring depth

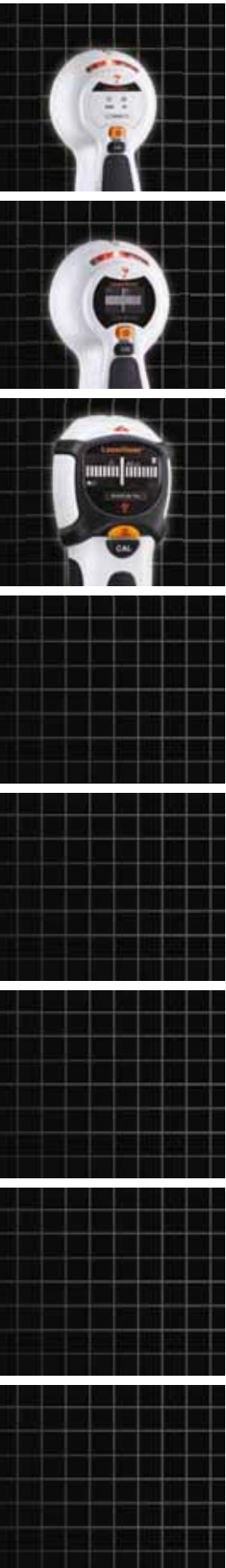


Inclusive: transmitter CableTracer TX, receiver RECV, connecting cable, test prods, test clamps, batteries, carrying case

ORDER NO.	EAN-CODE	PU
083.070A	4 021563 671212	1



Electronic scanners



Stud, metal and power cable locating

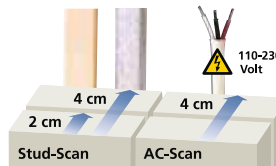


StarFinder



Electronic detector for live supply lines as well as wall beams and joists in drywall structures

- Auto-Calibration: adjusts the device to different surfaces immediately after switching on.
- Acoustic and visual detection signals for finding objects.
- High safety is guaranteed by the permanent voltage warning function.



Inclusive: StarFinder, battery



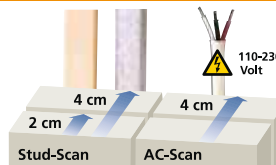
ORDER NO.	EAN-CODE	PU
080.969A	4 021563 697830	5

StarFinder Plus



Electronic detector for live supply lines as well as wall beams and joists in drywall structures

- One-button operation to switch between the different measurement modes
- Auto-Calibration: adjusts the device to different surfaces immediately after switching on.
- Acoustic and visual detection signals for finding objects.
- Illuminated display



Inclusive: StarFinder Plus, battery



ORDER NO.	EAN-CODE	PU
080.972A	4 021563 684182	5

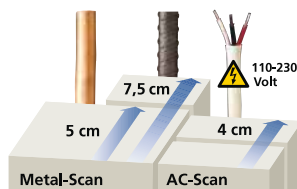
CombiFinder Plus



Electronic detector for metal and live wires

- This device permits targeted scanning for metals such as reinforcing iron, heating pipes and water pipes.
- One-button operation to switch between the different measurement modes
- The user guide on the LC display makes the device easy and reliable to use.
- Auto-Calibration: adjusts the device to different surfaces immediately after switching on.
- Auto-Cal Plus: allows objects to be localized easily in Metal-Scan mode.
- Acoustic and visual detection signals for finding objects.
- High safety is guaranteed by the permanent voltage warning function.
- Illuminated display

Inclusive: CombiFinder Plus, battery



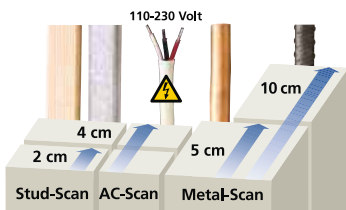
ORDER NO.	EAN-CODE	PU
080.955A	4 021563 684199	5



Stud, metal and power cable locating



MultiFinder Plus



Universal detector for locating wood, metal, copper, iron and live wires

- One-button operation to switch between the different measurement modes
- The user guide on the LC display makes the device easy and reliable to use.
- Auto-Calibration: adjusts the device to different surfaces immediately after switching on.
- Auto-Cal Plus: allows objects to be localized easily in Metal-Scan mode.
- Acoustic and visual detection signals for finding objects.
- High safety is guaranteed by the permanent voltage warning function.
- Special feature: in metal mode, it is even able to detect concealed lines when they are not live.
- Illuminated display

Inclusive: MultiFinder Plus, battery

ORDER NO.	EAN-CODE	PU
080.965A	4 021563 684175	5



CenterScanner Plus



Professional drill guide for accurate positioning of entry and exit points when drilling walls and ceilings

- System consisting of a transmitter and a receiver enables easy drill channel alignment up to a wall thickness of 150 cm
- Clearly visible LED indicators enable precise localization of entry and exit positions and acoustic signals
- Easily accessible marking tools in the transmitter and receiver for centering purposes
- Integrated display can be used to determine the required drilling depth up to 200 cm
- TX transmitter with integrated metal and voltage detection for safer drilling
- Visual and acoustic warning when metal and voltage are detected



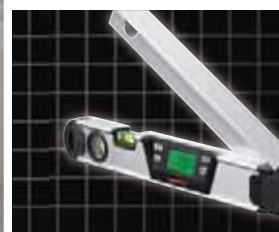
Wall thickness display

Inclusive: transmitter CenterScanner Plus TX, receiver RECV, adhesive kit, sliding pads (4x), batteries, carrying case

ORDER NO.	EAN-CODE	PU
075.300A	4 021563 699926	2



Slope indicators



Digital spirit levels

ALIGNMENT MADE EASY

Precision vertical and horizontal alignment or set-up of inclines make structural and interior finishing work easier during refurbishment and renovation.

The electronic spirit levels feature an illuminated flip display, powerful magnets and much more.

A special feature of the DigiLevel laser is the fold-out wall-line-laser to extend the measurement area!

Overview



DigiLevel Plus
25 / 40 / 60 / 80 / 100 / 120



DigiLevel Laser

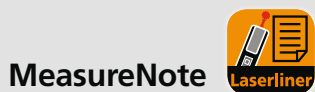


DigiLevel Pro
30 / 60 / 120



ArcoMaster 40 / 60

Accuracy of electronic measurements	± 0.1° from 0°...1° ± 0.1° from 89°...90° ± 0.2° from 1°...89°	± 0.05° from 0°...1°, ± 0.1° at 90°, ± 0.2° from 1°...89°	± 0.05° from 0°...1°, ± 0.1° at 90°, ± 0.2° from 1°...89°	± 0,2°
Length / cm	25 / 40 / 60 / 80 / 100 / 120	60	30 / 60 / 120	40 / 60
Angle display	360° (4 x 90°)	360° (4 x 90°)	360° (4 x 90°)	0°... 220°
Calibration function	•	•	•	
Reference mode	•	•	•	
Flip-display	•	•	•	•
Laser		line	point	
Hold function	•	•	•	•
AutoSound	•	•	•	



MeasureNote Measurement and documentation app for smartphones and tablets

- Transfer measured values
- Remote triggering of the measurement
- Voice output
- FotoNote: Mark measuring points on the image
- MeasureLocation: Save place and time of measurement
- Calculator: Calculations with the transferred measurements

MasterLevel Box Pro



Digital spirit levels

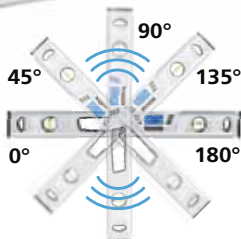


DigiLevel Plus

Digital electronic spirit levels – precise and easy to use

- An acoustic signal is sounded at 0°, 45°, 90°, 135° and 180° as an aid to ease the alignment of objects.
- Angles can be transferred in reference mode.
- The flip-display feature changes the display automatically when making overhead measurements.
- Calibration function to recalibrate the sensor and increase the measuring accuracy
- Powerful adhesion magnets and additional vertical and horizontal vial
- Milled measuring surface
- Hold function

DigiLevel Plus 25 / 40 / 60 / 80 ⁽¹⁾ / 100 ⁽¹⁾ / 120 ⁽¹⁾
 Length 25 / 40 / 60 / 80 / 100 / 120 cm



DigiLevel Plus 40



DigiLevel Plus 60



Accuracy of electronic measurements:

- ± 0.1° from 0°... 1°
- ± 0.1° from 89°...90°
- ± 0.2° from 1°...89°



Selectable units:
 ° degrees, %, mm/m

Inclusive: DigiLevel Plus, softbag, batteries

ORDER NO.	EAN-CODE	PU
25 cm	081.249A 4 021563 699315	2
40 cm	081.250A 4 021563 690664	2
60 cm	081.251A 4 021563 690671	2
80 cm ⁽¹⁾	081.252A 4 021563 690688	2
100 cm ⁽¹⁾	081.253A 4 021563 690695	2
120 cm ⁽¹⁾	081.254A 4 021563 690701	2

DigiLevel Laser ⁽¹⁾



Digital electronic spirit level with vertical, horizontal angle display and wallline-laser

- An acoustic signal is sounded at 0°, 45°, 90°, 135° and 180° as an aid to ease the alignment of objects.
- Angles can be transferred in reference mode.
- Calibration function to recalibrate the sensor and increase the measuring accuracy
- Call-up of up to 9 values with the separate measurement memory
- Milled measuring surface 60 cm in length
- Powerful adhesion magnets and additional vertical and horizontal vial, illuminated display
- Vial precision ± 0.5 mm / m
- Slope in degrees, in/ft, or percent

Accuracy of electronic measurements:

- ± 0.05° from 0°...1°, ± 0.1° at 90°, ± 0.2° from 1°...89°

Inclusive: DigiLevel Laser, softbag, batteries

ORDER NO.	EAN-CODE	PU
081.201A	4 021563 663156	2



Digital spirit levels and angle measurement

MasterLevel Box Pro



Easy-to-handle, digital electronic spirit level – with Bluetooth interface

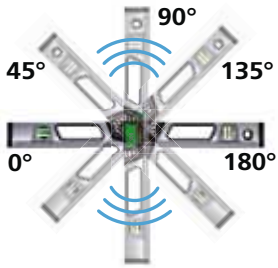
- Accuracy 0,1°
- Angles can be transferred in reference mode.
- The flip-display feature changes the display automatically when making overhead measurements.
- Calibration function to recalibrate the sensor and increase the measuring accuracy
- Powerful adhesion magnets
- Hold function
- Compact in mini format

Inclusive: MasterLevel Box Pro, softbag, battery

ORDER NO.	EAN-CODE	PU
081.262A	4 021563 700233	2



DigiLevel Pro ⁽¹⁾



Digital electronic spirit levels with spot laser as an optical extension for point-precise assessment of height and angle

- An acoustic signal is sounded at 0°, 45°, 90°, 135° and 180° as an aid to ease the alignment of objects.
- The flip-display feature changes the display automatically when making overhead measurements
- Calibration function to recalibrate the sensor and increase the measuring accuracy
- Powerful adhesion magnets on the underside
- Accuracy of electronic measurements: ± 0.05° from 0°...1°, ± 0.1° at 90°, ± 0.2° from 1°...89°, vial precision ± 0.5 mm / m

Inclusive: DigiLevel Pro, softbag, batteries

DigiLevel Pro

ORDER NO.	EAN-CODE	PU
30 cm	081.212A	4 021563 664856 2
60 cm	081.210A	4 021563 664825 2



DigiLevel Pro 30 / 60



ArcoMaster



Digital electronic angle measuring devices with display

- Measuring range 0° - 220°
- Pull-out bevel
- With additional horizontal and vertical vial
- An illuminated LCD display on each side (front and rear)
- Hold function
- Automatic calculation of angle bisection
- Accuracy of electronic angle measurement ± 0.2°, vial precision ± 0.25 mm / m

Inclusive: ArcoMaster, softbag, batteries

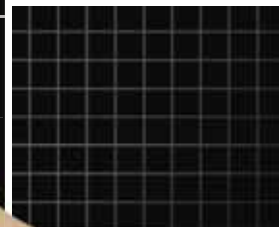


- **ArcoMaster 40 / 60**
Arm length 40 / 60 cm

ORDER NO.	EAN-CODE	PU
40 cm:	075.130A	4 021563 664016 2
60 cm:	075.131A	4 021563 666683 2



Distance meters



Laser distance measurement

PRECISE MEASUREMENT

Overview



	DistanceCheck	LRM i3	LRM T3	LRM T4 Pro
Measuring system	Laser	Laser	Laser	Laser
Measuring range / m	0,05 – 20	0,3 – 30	0,2 – 30	0,2 – 40
Accuracy / mm	± 2 (typical)*	± 2 (typical)*	± 2 (typical)*	± 2 (typical)*
Distance, area, volume calculation	•	•	•	•
Min.- / Max.- continuous measurement / continuous measurement	• / •	• / •	- / •	- / •
Addition / subtraction				
Pythagoras			1 + 2	1 + 2
Memory / quantity				
Bluetooth				•
Wall surface function				
Reference function				
Angle function			1 + 2	1 + 2
Flip-display	•			
Touch screen			•	•
Measuring positions corner / behind / tripod / front	• / • / - / •	- / • / - / •	- / • / • / •	- / • / • / •
Reflection surfaces				
360° inclination sensor			•	•
Laser class	2	2	2	2

• = available

*See operating instructions for specific accuracies

DM = DistanceMaster
LRM = LaserRange-Master



MeasureNote









Measurement and documentation app for smartphones and tablets

- Transfer measured values
- Remote triggering of the measurement
- Voice output
- FotoNote: Mark measuring distances on the image
- MeasureLocation: Save place and time of measurement
- Calculator: Calculations with the transferred measurements



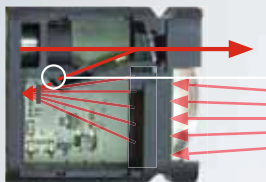
Laser distance measurement

						
DM Compact	DM Compact Plus	DM Compact Pro	DM Home	DM Pocket	DM Pocket Pro	DM
Laser	Laser	Laser	Laser	Laser	Laser	Laser
0,1 – 25	0,1 – 40	0,1 – 50	0,2 – 30	0,05 – 50	0,05 – 70	0,05 – 100
±2 (typical)*	±2 (typical)*	±2 (typical)*	±3 (typical)*	±2 (typical)*	±2 (typical)*	±1,5 (typical)*
•	•	•	•	•	•	•
• / •	• / •	• / •	• / •	• / •	• / •	• / •
			•	•	•	•
			1 + 2	1 + 2	1 + 2	1 + 2
10	10	10	50	50	50	50
	•	•				
			•	•	•	•
		1 + 2 + 3				
- / • / - / •	- / • / - / •	- / • / - / •	• / • / - / •	• / • / - / •	• / • / - / •	• / • / • / •
•	•	•	•	•	•	•
		•				
2	2	2	2	2	2	2



Technology

SPEED SHUTTER



Speed shutter:
Electronic anti-glare system for internal reference measurements

Thanks to the electronic anti-glare system, the DistanceMaster laser range finders measure 3x faster than conventional devices with mechanical systems.



Short distance
The laser range finder can be used for short distances as well – starting at distances of 5 cm.



Laser distance measurement



MeasureNote



DistanceCheck



Laser distance meter – simple operating techniques

- Measuring range, internal 0.05 to 20 m
- Measuring precision of ± 2 mm (typical)*
- The area and volume functions permit the acquisition of room sizes, for example to calculate material quantities
- Min./Max. continuous measurement
- Illuminated flip-display rotates about 180°

*See operating instructions for specific accuracies



Inclusive: DistanceCheck, batteries

ORDER NO.	EAN-CODE	PU
080.810A	4 021563 694181	5

Laser 650 nm	2	2 x AAA	180°
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LaserRange-Master i3



Laser distance meter – simple operating techniques

- Measuring range, internal 0.3 to 30 m
- Measuring precision of ± 2 mm (typical)*
- The area and volume functions permit the acquisition of room sizes, for example to calculate material quantities
- Min./Max. continuous measurement
- Illuminated 3-line VTN display
- Sturdy, ergonomically designed housing

*See operating instructions for specific accuracies



Inclusive: LaserRange-Master i3, softbag, batteries

ORDER NO.	EAN-CODE	PU
080.830A	4 021563 694204	5

Laser 635 nm	2	2 x AAA	SOFT
--------------	---	---------	------

LaserRange-Master T3



Laser distance meter – with angle function

- Measuring range, internal 0.2 to 30 m
- Measuring precision of ± 2 mm (typical)*
- The area and volume functions permit the acquisition of room sizes, for example to calculate material quantities
- Pythagoras 1 + 2, angle function 1 + 2, continuous measurement
- 360° inclination sensor for determining the horizontal and vertical distance
- 1/4" threaded connection
- Illuminated 3-line VTN display with touch function

*See operating instructions for specific accuracies



Inclusive: LaserRange-Master T3, softbag, batteries

ORDER NO.	EAN-CODE	PU
080.840A	4 021563 698141	5

Laser 650 nm	2	SPEED SHUTTER	1/4"	2 x AAA	SOFT
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LaserRange-Master T4 Pro



Laser distance meter – with Bluetooth interface and angle function

- Product description same as LaserRange-Master T3
- Measuring range, internal 0.2 to 40 m
- Bluetooth interface for measurement data transfer

Inclusive: LaserRange-Master T4 Pro, softbag, batteries

ORDER NO.	EAN-CODE	PU
080.850A	4 021563 698158	5

Laser 650 nm	2	SPEED SHUTTER	Bluetooth	1/4"	2 x AAA	SOFT
--------------	---	---------------	-----------	------	---------	------

Laser distance measurement

- **ConnectManager** for fast automatic connection
- **Voice output** – Indication of the measured value
- **FotoNote** – Rapid processing and dimensioning of camera images
- **Exchange of object photos** with measured values possible via e-mail, WhatsApp, etc.
- **MeasureLocation** – Save place and time of measurement
- **Calculator** – Calculations with the transferred measurements with the most commonly used mathematical functions
- **Calculation results** can be stored in the notebook and used again later



DistanceMaster Compact



Laser distance meter – sturdy with rubberised casing

- Measuring range, internal 0.1 to 25 m
- Measuring precision of ± 2 mm (typical)*
- The area and volume functions permit the acquisition of room sizes, for example to calculate material quantities
- Min./Max. continuous measurement
- With storage options
- Illuminated 3-line colour LC display
- Sturdy, ergonomically designed housing

*See operating instructions for specific accuracies



Inclusive: DistanceMaster Compact, softbag, batteries

ORDER NO.	EAN-CODE	PU
080.936A	4 021563 691036	5

DistanceMaster Compact Plus



Laser distance meter – with Bluetooth interface

- Product description same as DistanceMaster Compact
- Measuring range, internal 0.1 to 40 m
- Bluetooth interface for measurement data transfer

Inclusive: DistanceMaster Compact Plus, softbag, batteries

ORDER NO.	EAN-CODE	PU
080.938A	4 021563 694211	5

DistanceMaster Compact Pro



Laser distance meter – with Bluetooth interface and angle function

- Measuring range, internal 0.1 to 50 m
- Measuring precision of ± 2 mm (typical)*
- The area and volume functions permit the acquisition of room sizes, for example to calculate material quantities
- Angle function 1 + 2 + 3, Min./Max. continuous measurement
- Bluetooth interface for measurement data transfer
- 360° inclination sensor for determining the horizontal and vertical distance
- With storage options
- Illuminated 3-line colour LC display
- Sturdy, ergonomically designed housing

*See operating instructions for specific accuracies



Inclusive: DistanceMaster Compact Pro, softbag, batteries

ORDER NO.	EAN-CODE	PU
080.937A	4 021563 692903	2

Laser distance measurement

DistanceMaster Home ⁽¹⁾

max. 30 m



Laser distance meter – measure exactly to the point even faster

- Measuring range, internal 0.2 to 30 m
- Measuring precision of ± 3 mm (typical)*
- Features distance, surface and volume calculation, Pythagoras 1+2, Min./Max. continuous measurement and plus/minus function
- With versatile calculation and memory functions
- The wall surface function automatically adds up surfaces by measuring the lengths of walls as well as their height once.
- Reference mode for easy transfer of lengths

*See operating instructions for specific accuracies



Inclusive:
DistanceMaster Home,
softbag, batteries

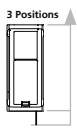


ORDER NO.	EAN-CODE	PU
080.949A	4 021563 685080	5



DistanceMaster Pocket ⁽¹⁾

max. 50 m



Laser distance meter – measure exactly to the point even faster

- Measuring range, internal 0.3 to 50 m
- Measuring precision of ± 2 mm (typical)*
- Features distance, surface and volume calculation, Pythagoras 1+2, Min./Max. continuous measurement and plus/minus function
- With versatile calculation and memory functions
- The wall surface function automatically adds up surfaces by measuring the lengths of walls as well as their height once.
- Reference mode for easy transfer of lengths

*See operating instructions for specific accuracies



Inclusive:
DistanceMaster Pocket,
softbag, batteries



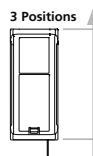
ORDER NO.	EAN-CODE	PU
080.945A	4 021563 683994	5



DistanceMaster Pocket Pro ⁽¹⁾



max. 70 m



Laser distance meter – measure exactly to the point even faster with the help of high-speed technology

- Measuring range, internal 0.05 to 70 m
- Measuring precision of ± 2 mm (typical)*
- Features distance, surface and volume calculation, Pythagoras 1+2, Min./Max. continuous measurement and plus/minus function
- With versatile calculation and memory functions
- The wall surface function automatically adds up surfaces by measuring the lengths of walls as well as their height once.
- Reference mode for easy transfer of lengths

*See operating instructions for specific accuracies



Inclusive:
DistanceMaster Pocket Pro,
softbag, batteries

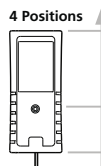
ORDER NO.	EAN-CODE	PU
080.948A	4 021563 684502	2



DistanceMaster ⁽¹⁾



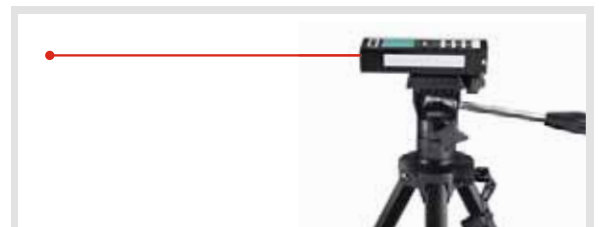
max. 100 m



Professional laser distance meter

- Measuring range 0.05 to 100 m
- High measuring precision of ± 1.5 mm (typical)*
- Features distance, surface and volume calculation, Pythagoras 1+2, Min./Max. continuous measurement and plus/minus function
- With versatile calculation and memory functions
- Reference mode for easy transfer of lengths
- 1/4" threaded connection
- Measure out of a corner with the screw-on measuring prod

*See operating instructions for specific accuracies



Optional: FixPod 155 cm, page 95

Inclusive: DistanceMaster, fold-out pin, softbag, batteries

ORDER NO.	EAN-CODE	PU
080.946A	4 021563 680634	2



Distance measuring wheels

RollPilot Mini



Measuring wheel

- Mechanical measuring wheel: Distances up to 9,999.9 m
- Addition when wheels are turning forwards and subtraction when backwards
- Wall-to-wall function: The compact design enables direct measurement from wall to wall.
- The moving pointer shows the exact start and end positions.
- Accuracy $\pm 0.1\%$
- Metering wheel with 0.5 m circumference

Inclusive: RollPilot Mini

ORDER NO.	EAN-CODE	PU
075.002A	4 021563 660667	2

RollPilot S12



Measuring wheel for use on straight lines and curves

- This mechanical metering wheel delivers accurate measured values at all ranges up to 9,999.9 m.
- Large, easy to read display with additional fine scale (1 - 9 cm) for precise measurement.
- Addition when wheels are turning forwards and subtraction when backwards
- The moving pointer shows the exact start and end positions.
- Folding design and softbag for easy transport
- Brake and zero setting directly on handle
- Non-wearing cardanic scale drive
- Accuracy $\pm 0.1\%$
- Metering wheel with 1 m circumference



Foldable for easy transport

Inclusive: RollPilot S12, softbag

ORDER NO.	EAN-CODE	PU
075.005A	4 021563 672714	2

SOFT

RollPilot S6 ⁽¹⁾



Measuring wheel for use on straight lines and curves

- Mechanical measuring wheel: Distances up to 9,999.9 m
- Large, easy to read display with additional fine scale (1 - 9 cm) for precise measurement.
- Addition when wheels are turning forwards and subtraction when backwards
- Wall-to-wall function: The compact design enables direct measurement from wall to wall.
- Brake and zero setting directly on handle
- Non-wearing cardanic scale drive
- Accuracy $\pm 0.1\%$
- Metering wheel with 0.5 m circumference

Inclusive: RollPilot S6, softbag

ORDER NO.	EAN-CODE	PU
075.008A	4 021563 692521	2

SOFT

RollPilot D12



Easy-to-read LC display directly on handle

Electronic measuring wheel for use on straight lines and curves

- Electronic measuring wheel delivers measured values accurate to the centimetre when measuring distances of up to 9,999.99 m.
- Easy-to-read, illuminated LC display directly on the handle.
- Addition when wheels are turning forwards and subtraction when backwards
- Hold function for holding the measured value
- Measured value memory for 5 entries
- The moving pointer shows the exact start and end positions.
- Folding design and softbag for easy transport
- Accuracy $\pm 0.1\%$
- Metering wheel with 1 m circumference

Inclusive: RollPilot D12, softbag, battery

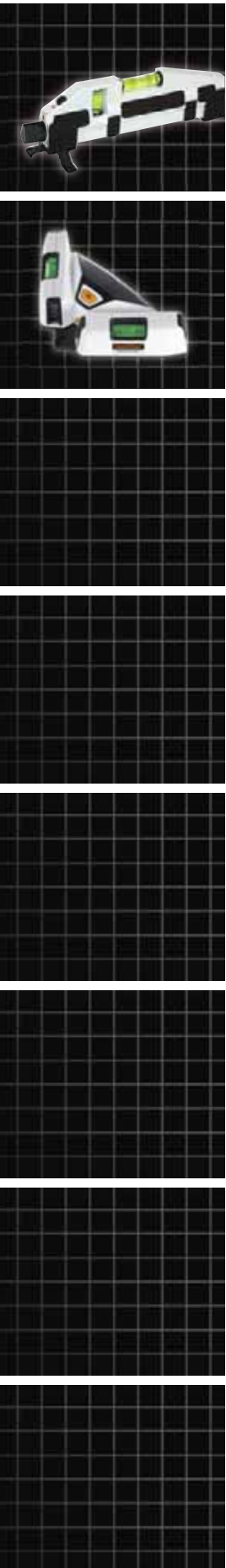
ORDER NO.	EAN-CODE	PU
075.006A	4 021563 680818	1

9V

SOFT



Wall and floor lasers



Line, universal and 90° lasers

LaserCube



Practical line laser for quick alignment work on the ground or walls

- Accuracy 1 mm / m
- Clean application on all surfaces – also when using pins
- Easy alignment using vials – horizontal and vertical
- Can be used as a laser spirit level
- Allows for measurement of sloped planes
- Compact thanks to mini cube housing

Inclusive: LaserCube, pins, batteries

ORDER NO.	EAN-CODE	PU
081.108A	4 021563 687848	5



HandyLaser Plus



Compact universal laser spirit level

- Combines the advantages of a laser spirit level in outstandingly compact dimensions
- Vial accuracy 0.5 mm / m

90° beam splitter mag

- The laser beam is split at an angle of 90°
- Vertical levelling
- With high-precision prism



Inclusive: HandyLaser Compact, adjustable feet, 90° beam splitter, batteries

ORDER NO.	EAN-CODE	PU
025.04.00A	4 021563 692644	5



SuperLine 2D



Line laser for aligning work on all surfaces

- Accuracy 1 mm / m
- The rotatable angle scale means that the device and the graduated collar can be set separately to any angle.
- Powerful adhesion magnets facilitate attachment to magnetic surfaces
- Illuminated vial



Inclusive: SuperLine 2D, pins, batteries

ORDER NO.	EAN-CODE	PU
081.110A	4 021563 662579	5



SuperSquare-Laser 4 Plus



90° line laser – ideal for laying wall and floor tiles

- Angle accuracy 0.5 mm / m
- The 4 clearly visible laser lines are ideally suited for aligning tiles.
- Vertical and horizontal levelling on walls
- The applied lay edges and contact surface make it easy to position floor tiles.
- Clean application on all surfaces – also when using pins
- Bubble levels to adjust the device
- Can be used as a laser spirit level



Inclusive: SuperSquare-Laser 4, pins, laser enhancement glasses, batteries, carrying case

ORDER NO.	EAN-CODE	PU
081.135A	4 021563 695249	2

BONUS



SuperSquare-Laser 2G Plus



90° green line laser – ideal for laying wall and floor tiles

- Angle accuracy 0.5 mm / m
- 2 extremely bright green laser lines - the DLD technology produces high-quality lines, a clean, clear and therefore easily visible line image.
- Vertical and horizontal levelling on walls
- The applied lay edges and contact surface make it easy to position floor tiles.
- Clean application on all surfaces – also when using pins
- Bubble levels to adjust the device
- Can be used as a laser spirit level



Inclusive: SuperSquare-Laser 2G, pins, laser enhancement glasses, batteries, carrying case

ORDER NO.	EAN-CODE	PU
081.138A	4 021563 699971	2

BONUS



Cross- and line lasers



INTERIOR FINISHING AND BUILDING

The ideal laser measuring device for interior and dry finish work. Simple handling – these devices align themselves automatically. Bright laser lines make them ideally suited for laying tiles, wall studding, window installation and much more. The line lasers with laser receiver can even be used outdoors. The best visibility is offered by green line lasers.

Powerful technology



AUTOMATIC LEVEL **AUTOMATIC LEVEL**

Automatic alignment of the device with a magnetically dampened pendulum system. The devices are set to their initial position and align themselves automatically in a matter of seconds.



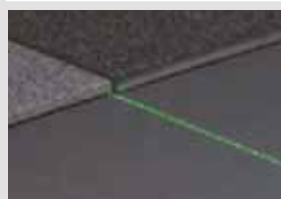
lock **lock**

Transport LOCK: Units with "Automatic Level" are protected with a pendulum lock during transport. A special motor lock protects units with "Sensor Automatic".



PowerBright LASER **PowerBright+ LASER**

High-performance class laser diodes produce extremely bright laser lines. They remain visible even on surfaces at great distances or on dark surfaces as well as under bright ambient light conditions.



DLD

The green, state-of-the-art DLD laser diodes offer energy efficiency and high temperature stability, providing outstanding laser beam quality. The result is a sharp, distinct and therefore clearly visible laser line.



Laser
510 - 530 nm

Green looks 6 times brighter than red. This makes possible applications on dark surfaces, over long distances and working even in very bright ambient light conditions. A red laser with a wavelength of 635 nm is used as reference for the difference in brightness.



2

Laser class

Laserliner instruments are available in sturdy carrying bags or hard-shell cases.



SOFT: softbag



HARD: plastic carry case



L-BOXX

mobile carrying case system for safely transporting measuring instruments and accessories flexible, practical and compatible with the Sortimo® vehicle equipment system



Battery system



Laser receiver – ideal for outdoor applications



RX READY **GRX READY**

Line laser with RX-Ready technology

RX- and GRX-READY technology enables line lasers to be used even in unfavourable light conditions.

The laser lines pulsate at a high frequency and this can be picked up by special laser receivers over long distances.

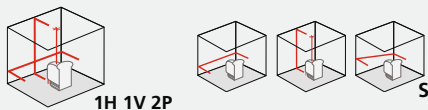
Compact and clamping lasers

Overview

							
	SmartCross-Laser	SuperCross-Laser 2	SuperCross-Laser 2P	CompactCube-Laser 3	SmartVision-Laser	AutoCross-Laser 2	MasterCross-Laser 2
System	1H / 1V	1H / 1V	1H / 1V / 2P	1H / 2V	1HG / 1VG	1H / 1V	1H / 1V
Brightness	standard	standard	standard	PowerBright	Green DLD	PowerBright+	PowerBright+
Accuracy mm / m	0.5	0.5	0.5	0.35	0.4	0.2	0.2
Number of laser lines	2	2	2	3	2	2	2
Laser spread	120°	120°	120°	120°	120°	120°	120°
Number of laser points			2				
Plumb laser			•				
Individually switchable laser	•	•	•	•	•	•	•
Levelling range	5°	4,5°	4°	3°	5°	3°	3°
Levelling principle	Automatic-Level	Automatic-Level	Automatic-Level	Automatic-Level	Automatic-Level	Automatic-Level	Automatic-Level
Vertically adjustable rotary base							
Vertical fine adjustment							
Slope function	manual	manual	manual	manual	manual	manual	manual
Receiver mode	• ¹		•			•	•
Laser class	2	2	2	2	2	2	2

• = available

•¹ only SmartCross-Laser, SmartCross-Laser Set



The space grids show the number and direction of laser lines.

H = Number of horizontal lasers
V = Number of vertical lasers
D = Plumb point
P = Number of laser points
S = Slope function

HG = Number of green, horizontal lasers
VG = Number of green, vertical lasers



Tripod mount and wall bracket

- With the magnetic base, the laser measuring device can be used individually or in combination.
- Tripod mount for securing laser measuring devices with 1/4" thread on 5/8" tripods.



Alignment and combination lasers

MasterCross-Laser 2P	MasterCross-Laser 2G	AutoCross-Laser 3C	CrossDot-Laser 5P	AutoCross-Laser 2 XP	AutoCross-Laser 2 XPG	CombiCross-Laser 5 DLD	PowerCross-Laser 5G
1H / 1V / 2P	1HG / 1VG	1H / 2V / 1D	1H / 1V / 5P	1H / 1V / 5P	1HG / 1VG / 5P	1HG / 1VG / 3V / 1D	1HG / 4VG / 1D
PowerBright+	Green DLD	PowerBright	PowerBright	PowerBright	Green DLD	Green DLD / PowerBright	Green DLD
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.15
2	2	3	2	2	2	5	5
120°	120°	120°	H 180° V 120°	H 180° V 120°	HG 180° VG 120°	H 120° VG 180°	HG 120° VG 180°
2		1	5	5	5	1	1
•		•	•	•	•	•	•
•	•	•	•	•	•	•	•
3°	3°	2,5°	4°	3°	3°	2°	2°
Automatic-Level	Automatic-Level	Automatic-Level	Automatic-Level	Automatic-Level	Automatic-Level	Automatic-Level	Automatic-Level
		•				•	•
		•				•	•
manual	manual	manual	manual	manual	manual	manual	manual
•	•	•	•	•	•	•	•
2	2	2	2	2	2	2	2



MULTI-FUNCTIONAL CROSSGRIP CLAMP



CrossGrip clamp and wall bracket

- Fast horizontal and vertical alignment at 90° angle
- Magnetic for use individually and in combination
- With adjustable clamping range for various profiles made of wood and metal



Cross-line lasers with alignment base



Stable metal base with vernier adjustment



Freely rotatable horizontal circle

Compact and clamping lasers

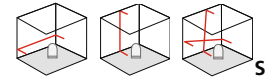


SmartCross-Laser



Automatic cross-line laser with additional slope function

- 5° self-levelling range, accuracy 0.5 mm / m
- Additional slope function for aligning inclines
- Out-Of-Level is indicated by optical signals when the unit is out of its self-levelling range.
- RX-Ready: The laser receiver RX 30, which is available as an optional extra, can detect laser lines in a range of up to 30 m – ideal for outdoor applications.



Inclusive: SmartCross-Laser, batteries



optional FlexClamp

ORDER NO.	EAN-CODE	PU
081.115A	4 021563 684533	2

081.115A 4 021563 684533 2

optional: Laser receiver RX 30

RangeXtender, including battery and universal mount

033.25A	4 021563 672394	5
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033.25A 4 021563 672394 5



SmartCross-Laser set

Automatic cross-line laser with universal clamp FlexClamp

- Product description same as SmartCross-Laser

Inclusive: SmartCross-Laser, FlexClamp, batteries

ORDER NO.	EAN-CODE	PU
081.116A	4 021563 694389	4

081.116A 4 021563 694389 4

optional: Laser receiver RX 30

RangeXtender, including battery and universal mount

033.25A	4 021563 672394	5
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033.25A 4 021563 672394 5

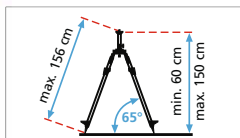


SmartCross-Laser set 150 cm

Automatic cross-line laser with compact camera tripod 150 cm

- Product description same as SmartCross-Laser

Inclusive: SmartCross-Laser, softbag, compact camera tripod 150 cm incl. softbag, batteries



ORDER NO.	EAN-CODE	PU
081.114A	4 021563 687824	2

081.114A 4 021563 687824 2



SmartCross-Laser set 270 cm

Automatic cross-line laser with universal clamp FlexClamp and TelePod 270 cm

- Product description same as SmartCross-Laser

Inclusive: SmartCross-Laser, FlexClamp, TelePod 270 cm incl. softbag, batteries



ORDER NO.	EAN-CODE	PU
081.113A	4 021563 694846	2

081.113A 4 021563 694846 2



Compact and clamping lasers

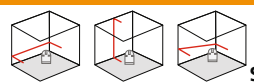


SuperCross-Laser 2 ⁽¹⁾



Laser for interior finishing work featuring 2 laser lines

- 4.5° self-levelling range, accuracy 0.5 mm / m
- Additional slope function for aligning inclines
- The device's height-adjustable bracket means that it can be mounted on a tripod or attached directly to the wall.



Inclusive: SuperCross-Laser 2, height-adjustable bracket, softbag, batteries

ORDER NO.	EAN-CODE	PU
081.120A	4 021563 662708	5

Laser 635 nm
2
AUTOMATIC LEVEL
 lock
 magnetic
 1/4"
 5/8"
 4x AA



SuperCross-Laser set 330 cm ⁽¹⁾



Automatic cross-line laser with telescopic stand 330 cm

- Product description same as SuperCross-Laser 2



Inclusive: SuperCross-Laser 2, height-adjustable bracket, softbag, telescopic stand 330 cm incl. softbag, telescopic adapter, batteries

ORDER NO.	EAN-CODE	PU
081.121A	4 021563 663996	2

Laser 635 nm
2
AUTOMATIC LEVEL
 lock
 magnetic
 1/4"
 5/8"
 4x AA

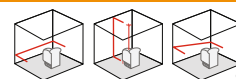
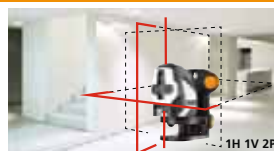


SuperCross-Laser 2P



Laser for interior finishing work featuring 2 laser lines

- 4° self-levelling range, accuracy 0.5 mm / m
- Additional plumb laser up and down
- Additional slope function for aligning inclines
- The device's height-adjustable bracket means that it can be mounted on a tripod or attached directly to the wall.
- RX-Ready: The laser receiver RX 30, which is available as an optional extra, can detect laser lines in a range of up to 30 m – ideal for outdoor applications.



Inclusive: SuperCross-Laser 2P, height-adjustable bracket, softbag, batteries

ORDER NO.	EAN-CODE	PU
081.125A	4 021563 670864	2

optional: Laser receiver RX 30
RangeXtender, including battery and universal mount

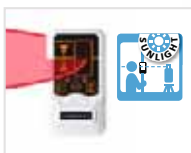
033.25A	4 021563 672394	2
---------	-----------------	---

Laser 635 nm
2
AUTOMATIC LEVEL
 lock
 magnetic
 RX READY
 1/4"
 5/8"
 4x AA



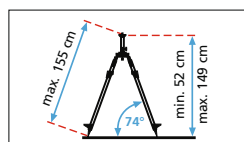
SuperCross-Laser 2P RX set 150 cm

Inclusive



Automatic cross-line laser with laser receiver and compact tripod 150 cm

- Product description same as SuperCross-Laser 2P



Inclusive: SuperCross-Laser 2P, height-adjustable bracket, softbag, RangeXtender 30, universal mount, compact tripod 150 cm incl. softbag, batteries

ORDER NO.	EAN-CODE	PU
081.128A	4 021563 679775	2

Laser 635 nm
2
AUTOMATIC LEVEL
 lock
 mag
 RX READY
 1/4"
 5/8"
 4x AA



Compact and clamping lasers



CompactCube-Laser 3 Plus

NEW

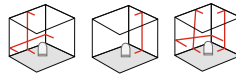
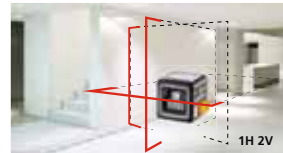


Automatic cross-line laser with 90° laser on the side

- PowerBright-Laser with clearly visible laser lines
- With 3 laser lines: front cross-line laser and 90° laser on the side
- 3° self-levelling range, accuracy 0.35 mm / m
- Additional slope function for aligning inclines
- Individually switchable laser
- Small, compact design – fits in any toolbox

FlexClamp Plus

- Easy-to-adjust clamping bracket with base support
- Versatile damage free mounting options for surfaces
- Easy-to-adjust height and position of the measuring device
- Suitable for cross-line laser with 1/4" thread



Inclusive: CompactCube-Laser 3, FlexClamp Plus, batteries, carrying case

ORDER NO.	EAN-CODE	PU
081.340A	4 021563 703548	2

Laser 635 nm
 2
 PowerBright LASER
AUTOMATIC LEVEL
 lock
 1/4"
 3x AAA

SmartVision-Laser Plus

NEW

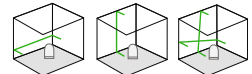
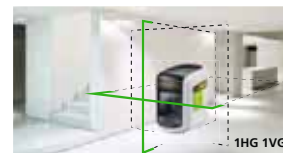


Green cross-line laser with universal clamping bracket FlexClamp Plus

- 5° self-levelling range, accuracy 0.4 mm / m
- Additional slope function for aligning inclines
- Individually switchable laser
- Extremely bright green DLD laser cross at the front achieves high-quality lines: precise, clear and therefore easily visible.
- Out-Of-Level is indicated by optical signals when the unit is out of its self-levelling range.
- Green laser technology with 0°C...50°C temperature range

FlexClamp Plus

- Easy-to-adjust clamping bracket with base support
- Versatile damage free mounting options for surfaces
- Easy-to-adjust height and position of the measuring device
- Suitable for cross-line laser with 1/4" thread



Inclusive: SmartVision-Laser, FlexClamp Plus, batteries, carrying case



ORDER NO.	EAN-CODE	PU
081.337A	4 021563 701964	4

Laser 510 nm
 2
 AUTOMATIC LEVEL
 lock
 DLD
 1/4"
 2x AA

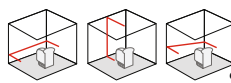
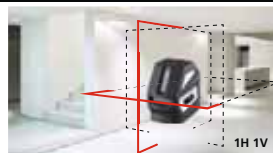


Compact and clamping lasers

AutoCross-Laser 2 Plus



Cross-line laser with 2 clearly visible laser lines
 – 3° self-levelling range, accuracy 0.2 mm / m
 – Additional slope function for aligning inclines
 – Individually switchable laser
 – The magnetic wall mount allows the unit to be used as a stand-alone device or in combination with other devices – on walls and attached to magnetic objects
 – Ideal for mounting on drywall construction profiles
 – RX-Ready: The laser receiver RX 40, which is available as an optional extra, can detect laser lines in a range of up to 40 m – ideal for outdoor applications.



Inclusive: AutoCross-Laser 2, magnetic wall mount, batteries, carrying case

ORDER NO. EAN-CODE PU

032.101A 4 021563 688722 1

optional: Laser receiver RX 40

RangeXtender, including batteries and universal mount

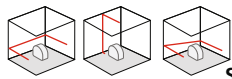
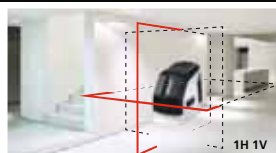
033.40 4 021563 688036 1



MasterCross-Laser 2



Cross-line laser with 2 clearly visible laser lines
 – 3° self-levelling range, accuracy 0.2 mm / m
 – Additional slope function for aligning inclines
 – Individually switchable laser
 – With the magnetic clamp and wall bracket CrossGrip the device can be used as a stand-alone unit, in a combination as well as in horizontal and vertical position. With adjustable clamping range.
 – Ideal for mounting on drywall construction profiles
 – RX-Ready: The laser receiver RX 40, which is available as an optional extra, can detect laser lines in a range of up to 40 m – ideal for outdoor applications.



Inclusive: MasterCross-Laser 2, CrossGrip, batteries, carrying case

ORDER NO. EAN-CODE PU

031.350A 4 021563 695324 1

optional: Laser receiver RX 40

RangeXtender, including batteries and universal mount

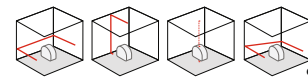
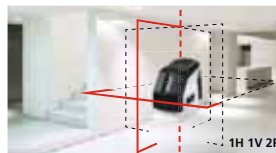
033.40 4 021563 688036 1



MasterCross-Laser 2P



Cross-line laser with 2 clearly visible laser lines and plumb function
 – Product description same as MasterCross-Laser 2
 – Additional plumb laser up and down



Inclusive: MasterCross-Laser 2P, CrossGrip, batteries, carrying case

ORDER NO. EAN-CODE PU

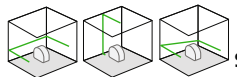
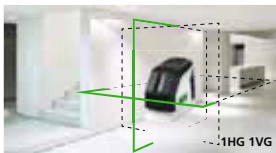
031.360A 4 021563 695379 1



MasterCross-Laser 2G



Green cross-line laser with ultra bright diode technology
 – Product description same as MasterCross-Laser 2
 – Ideal for mounting on drywall construction profiles
 – Extremely bright green DLD laser cross at the front achieves high-quality lines: precise, clear and therefore easily visible.
 – GRX-Ready: in combination with the optional laser receiver, the integrated hand-held receiver mode permits detection of laser lines at long distances and under unfavourable light conditions.
 – Green laser technology with 0°C...50°C temperature range



Inclusive: MasterCross-Laser 2G, CrossGrip, batteries, carrying case

ORDER NO. EAN-CODE PU

031.370A 4 021563 695386 1

optional: Laser receiver CRX 30

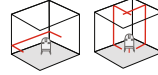
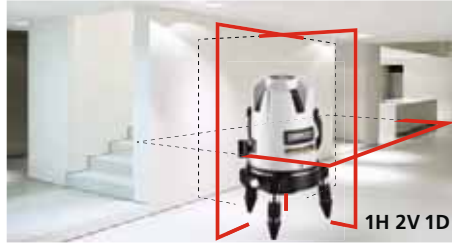
CombiRangeXtender, including batteries and universal mount

033.35 4 021563 682928 1



Alignment and combination lasers

AutoCross-Laser 3C Pro



Cross-line laser with plumb function and additional reference line

- Straightforward plumb function using laser cross at the top and additional plumb laser
- Perpendicular alignment of vertical laser lines
- 2.5° self-levelling range, accuracy 0.2 mm / m
- The pivoted housing can be turned with a vernier adjustment mechanism to permit exact positioning of laser lines
- Adjustable feet with removable rubber caps
- RX-Ready: The laser receiver RX 51, which is available as an optional extra, can detect laser lines in a range of up to 50 m – ideal for outdoor applications.

Inclusive: AutoCross-Laser 3C, rechargeable batteries, quick charger, laser enhancement glasses, tripod adapter (for crank tripods), rubber caps, complete in the L-BOXX 136

ORDER NO.	EAN-CODE	PU
031.212L	4 021563 694358	1

optional: Laser receiver RX 51
RangeXtender, including battery and universal mount

033.20-1	4 021563 662920	1
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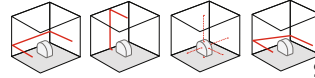
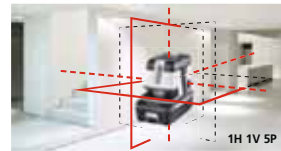
CrossDot-Laser 5P

NEW



Cross-line and 5-point laser with 360° magnetic base

- PowerBright-Laser with clearly visible laser lines
- 4° self-levelling range, accuracy 0.2 mm / m
- The 5 laser points are placed each in 90° on the horizontal and vertical level of the laser lines. On the edges of the laser lines there are formed 3 intercept points out of laser line and point.
- The plum and ceiling points allow markings to be easily transferred from the floor to the ceiling.
- Additional slope function for aligning inclines
- Individually switchable laser
- With the 360° magnetic base the device can be used individually or in combination – on walls and attached to magnetic objects. Additional for securing 5/8" thread tripods.
- With the console, the device can be used on tripods respectively.
- RX-Ready: The laser receiver RX 40, which is available as an optional extra, can detect laser lines in a range of up to 40 m – ideal for outdoor applications.



Inclusive: CrossDot-Laser 5P, 360° magnetic base, batteries, carrying case

ORDER NO.	EAN-CODE	PU
081.145A	4 021563 698424	1

optional: Laser receiver RX 40
RangeXtender, including batteries and universal mount

033.40	4 021563 688036	1
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360° MAGNETIC BASE



Alignment and combination lasers



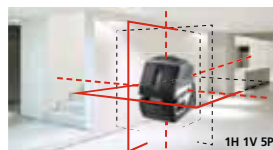
Tripod Mount
The magnetic holder designed as a tripod adapter enables perpendicular plumbing with the AutoCross-Laser 2 XP and XPG.

AutoCross-Laser 2 XP (1)

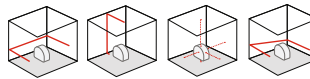


Cross-line laser with 2 clearly visible laser lines and additional 5-point laser

- 3° self-levelling range, accuracy 0.2 mm / m
- The 5 laser points are placed each in 90° on the horizontal and vertical level of the laser lines. On the edges of the laser lines there are formed 3 intercept points out of laser line and point.
- The plum and ceiling points allow markings to be easily transferred from the floor to the ceiling
- Additional slope function for aligning inclines
- Individually switchable laser
- The magnetic wall mount allows the unit to be used as a stand-alone device or in combination with other devices – on walls and attached to magnetic objects. Additional for securing 5/8" thread tripods.
- Ideal for mounting on drywall construction profiles
- RX-Ready: The laser receiver RX 40, which is available as an optional extra, can detect laser lines in a range of up to 40 m – ideal for outdoor applications.



1H 1V 5P



S

Inclusive: AutoCross-Laser 2 XP, tripod mount and wall bracket, batteries, carrying case

ORDER NO.	EAN-CODE	PU
060.101A	4 021563 691432	1



optional: Laser receiver RX 40

RangeXtender, including batteries and universal mount

033.40	4 021563 688036	1
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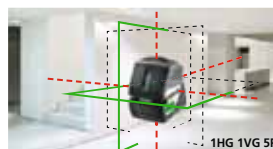
Laser 635 nm
2 AUTOMATIC LEVEL
lock
PowerBright LASER
AUTOMATIC LEVEL
READY
magnetic
1/4"
4x AA
HARD

AutoCross-Laser 2 XPG (1)

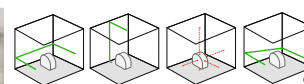


Green cross-line laser with ultra bright diode technology and additional 5-point laser

- Product description same as AutoCross-Laser 2 XP
- Extremely bright green DLD laser cross at the front achieves high-quality lines: precise, clear and therefore easily visible.
- GRX-Ready: in combination with the optional laser receiver, the integrated hand-held receiver mode permits detection of laser lines at long distances and under unfavourable light conditions.
- Green laser technology with 0°C...50°C temperature range



1HG 1VG 5P



S

Inclusive: AutoCross-Laser 2 XPG, tripod mount and wall bracket, batteries, carrying case

ORDER NO.	EAN-CODE	PU
060.111A	4 021563 692866	1



optional: Laser receiver CRX 40

CombiRangeXtender, including batteries and universal mount

033.35	4 021563 682928	1
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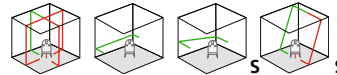
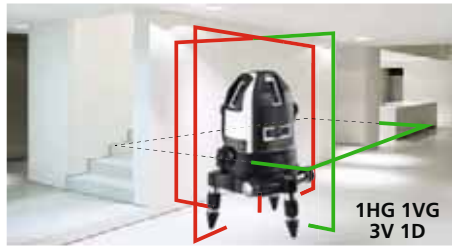


2 AUTOMATIC LEVEL
lock
Laser 510 nm
DLD
GRX-READY
Laser 635 nm
magnetic
1/4"
4x AA
HARD

Alignment lasers



CombiCross-Laser 5 DLD



Green cross-line laser with ultra bright diode technology, and an additional 3 red laser lines and plumb function

- Extremely bright green DLD laser cross at the front achieves high-quality lines: precise, clear and therefore easily visible. Additional 3 vertical red laser lines.
- 2° self-levelling range, accuracy 0.2 mm / m
- Perpendicular alignment of vertical laser lines
- Straight forward plumb function using laser cross at the top and additional plumb laser.
- Additional slope function for aligning inclines
- The pivoted housing can be turned with a vernier adjustment mechanism to permit exact positioning of laser lines
- RX-/GRX-Ready: in combination with the optional laser receiver, the integrated hand-held receiver modes permit detection of laser lines at long distances and under unfavourable light conditions.
- Green laser technology with 0°C...50°C temperature range

Inclusive: CombiCross-Laser 5 DLD, power supply/battery charger, tripod adapter (for crank tripods), rubber caps, lithium-ion rechargeable battery, complete in the L-BOXX 136

ORDER NO.	EAN-CODE	PU
057.200L	4 021563 688494	1

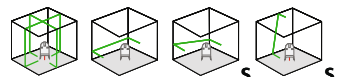
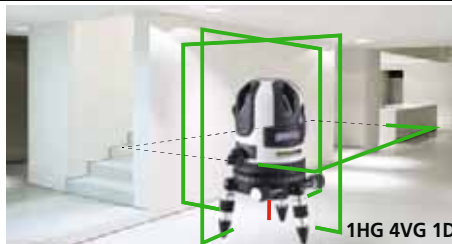


optional: Laser receiver CRX 40
CombiRangeXtender, including batteries and universal mount

033.35	4 021563 682928	1
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PowerCross-Laser 5G



Robust cross-line laser with 5 ultra bright, green laser lines and plumb function

- Extremely bright, green, high-quality DLD laser lines: precise, clear and therefore easily visible.
- Straight forward plumb function using laser cross at the top and additional plumb laser
- Perpendicular alignment of vertical laser lines
- Additional slope function for aligning inclines
- 2° self-levelling range, accuracy 0.15 mm / m
- Removable lithium-ion rechargeable battery
- The pivoted housing can be turned with a vernier adjustment mechanism and horizontal circle to permit exact positioning of laser lines
- GRX-Ready: in combination with the optional laser receiver, the integrated hand-held receiver mode permits detection of laser lines at long distances and under unfavourable light conditions.
- Green laser technology with 0°C...50°C temperature range

Inclusive: PowerCross-Laser 5G, power supply/battery charger, tripod adapter (for crank tripods), rubber caps, lithium-ion rechargeable battery, complete in the L-BOXX 136

ORDER NO.	EAN-CODE	PU
032.060L	4 021563 692736	1



optional: Laser receiver CRX 40
CombiRangeXtender, including batteries and universal mount

033.35	4 021563 682928	1
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360°-line lasers



Combination and 3D-line lasers

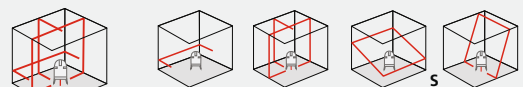
Overview

								
	SmartLine-Laser 360°	SuperLine-Laser 360° RX 40	MasterCross-Laser 360	SuperPlane-Laser 3D	CompactPlane-Laser 3D	SuperPlane-Laser 3D Pro	SuperPlane-Laser 3G Pro	PowerPlane-Laser 3D
System	1H360° / 1V	1H360° / 2V	1H360°/ 1V / 2P	1H360° / 2V360°	1H360°/ 2V360°	1H360° / 2V360°	1HG360° / 2VG360°	1H360°/ 2V360°
Brightness	standard	PowerBright	PowerBright	PowerBright	PowerBright	PowerBright	Green DLD	PowerBright+
Accuracy mm / m	0.4	0.35	0.2 V	0.35	0.35	0.2	0.2	0.2
Number of laser lines	2	3	3	3	3	3	3	3
Laser spread	360°	360°	360°	360°	360°	360°	360°	360°
Number of laser points			2					
Plumb function			•	•	•	•	•	•
Individually switchable laser	•	•	•	•	•	•	•	•
Levelling range	5°	3°	3°	3,5°	3,5°	3,5°	3,5°	2,5°
Levelling principle	Automatic-Level	Automatic-Level	Automatic-Level	Automatic-Level	Automatic-Level	Automatic-Level	Automatic-Level	Automatic-Level
Slope function	manual	manual	manual	manual	manual	manual	manual	manual
Receiver mode	•	•	•		•	•	•	•
Laser classe	2	2	2	2	2	2	2	2

• = available



The laser beam is aimed exactly at the tip of a precisely sharpened cone and is deflected from the reflective surface in a circular manner. This creates a highly accurate continuous, circumferential 360° laser line.



1H 3V 1D

The space grids show the number and direction of laser lines.

H = Number of horizontal lasers
V = Number of vertical lasers
D = Plumb point
P = Number of laser points
S = Slope function

HG = Number of green, horizontal lasers
VG = Number of green, vertical lasers

Combination line lasers



SmartLine-Laser 360° Plus

NEW



Automatic laser with a horizontal 360° laser circle
 – The horizontal laser line creates a closed 360° laser line, and the vertical laser line is perpendicular to it.
 – 5° self-levelling range, accuracy 0.4 mm / m
 – Additional slope function for aligning inclines
 – Individually switchable laser
 – The magnetic wall mount allows the unit to be used as a stand-alone device or in combination with other devices – on walls and attached to magnetic objects
 – RX-Ready: The laser receiver RX 30, which is available as an optional extra, can detect laser lines in a range of up to 30 m – ideal for outdoor applications.



Inclusive: SmartLine-Laser 360°, magnetic wall mount 1x adapter, carrying case, batteries

ORDER NO.	EAN-CODE	PU
081.119A	4 021563 693801	2



optional: Laser receiver RX 30
 RangeXtender, including battery and universal mount

033.25A	4 021563 672394	2
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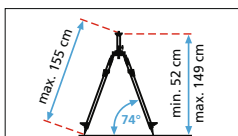


SmartLine-Laser 360° set

Inclusive



Automatic cross-line laser with compact tripod 150 cm and laser receiver
 – Product description same as SmartLine-Laser 360° without magnetic wall mount



Inclusive: SmartLine-Laser 360°, RangeXtender 30, softbag, compact tripod 150 cm incl. softbag, batteries

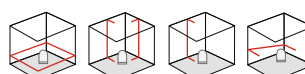
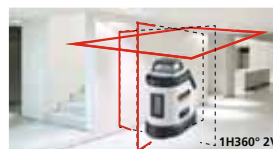
ORDER NO.	EAN-CODE	PU
081.118B	4 021563 686995	2

SuperLine-Laser 360° RX 40



Inclusive

Automatic laser with a horizontal 360° laser circle and two vertical lines
 – PowerBright-Laser with clearly visible laser lines
 – The horizontal laser line creates a closed 360° laser line, and the vertical laser lines are perpendicular to it.
 – 3° self-levelling range, accuracy 0.35 mm / m
 – Additional slope function for aligning inclines
 – Individually switchable laser
 – RX-Ready: The laser receiver RX 40 can detect laser lines in a range of up to 40 m – ideal for outdoor applications.



Inclusive: SuperLine-Laser 360°, RangeXtender 40, batteries, carrying case

ORDER NO.	EAN-CODE	PU
081.160A	4 021563 700875	1

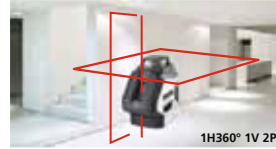


MasterCross-Laser 360



Crossline laser with a horizontal 360° laser circle, one vertical line and plumb function

- PowerBright-Laser with 1 bright 360° laser circle and the vertical laser line is perpendicular to it.
- Additional plumb laser up and down
- Straight forward plumb function using laser crosses
- Optimised for work close to the ceiling
- 3° self-levelling range, accuracy 0.2 mm / m
- Individually switchable laser
- Additional slope function for aligning inclines
- With the magnetic clamp and wall bracket CrossGrip the device can be used as a stand-alone unit, in a combination as well as in horizontal and vertical position. With adjustable clamping range.
- Out-Of-Level: is indicated by optical signals when the unit is outside its self-levelling range.
- RX-Ready: The laser receiver RX 40, which is available as an optional extra, can detect laser lines in a range of up to 40 m – ideal for outdoor applications.



Inclusive: MasterCross-Laser 360, CrossGrip, batteries, carrying case

ORDER NO.	EAN-CODE	PU
031.380A	4 021563 699117	1

optional: Laser receiver RX 40
RangeXtender, including batteries and universal mount

033.40	4 021563 688036	1
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SuperPlane-Laser 3D Plus

NEW



Three-dimensional laser with 3 bright 360° laser circles

- PowerBright-Laser with 3 bright 360° laser circles
- Straight forward plumb function using laser crosses
- Optimised for work close to the ceiling
- 3° self-levelling range, accuracy 0.35 mm / m
- Additional slope function for aligning inclines
- Holder for mounting on tripods, walls and magnetic objects
- Out-Of-Level: is indicated by optical signals when the unit is outside its self-levelling range.



Inclusive: SuperPlane-Laser 3D, tripod bracket, laser enhancement glasses, batteries

ORDER NO.	EAN-CODE	PU
081.180A	4 021563 700394	1



SuperPlane-Laser 3D Pro



Three-dimensional laser with a horizontal and two vertical 360° laser circles

- PowerBright-Laser with 3 bright 360° laser circles
- Straight forward plumb function using laser crosses
- Optimised for work close to the ceiling
- 3.5° self-levelling range, accuracy 0,2 mm / m
- Individually switchable laser
- Additional slope function for aligning inclines
- With the magnetic clamp and wall bracket CrossGrip the device can be used as a stand-alone unit, in a combination as well as in horizontal and vertical position. With adjustable clamping range.
- Out-Of-Level: is indicated by optical signals when the unit is outside its self-levelling range.
- RX-Ready: The laser receiver RX 40, which is available as an optional extra, can detect laser lines in a range of up to 40 m – ideal for outdoor applications.
- Long-lasting, powerful rechargeable lithium-ion battery



Inclusive: SuperPlane-Laser 3D Pro, CrossGrip, Li-Ion battery pack with external charging station, power supply/battery charger incl. international adapter, complete in the L-BOXX 136

ORDER NO.	EAN-CODE	PU
036.600L	4 021563 700486	1

optional: Laser receiver RX 40
RangeXtender, including batteries and universal mount

033.40	4 021563 688036	1
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SuperPlane-Laser 3G Pro



Green three-dimensional laser with a horizontal and two vertical 360° laser circles

- Product description same as SuperPlane-Laser 3D Pro
- Horizontal and vertical 360° laser lines with green DLD laser technology achieve high quality lines: precise, clear and therefore easily visible.
- GRX-Ready: in combination with the optional laser receiver, the integrated hand-held receiver mode permits detection of laser lines at long distances and under unfavourable light conditions.
- Green laser technology with 0°C...50°C temperature range



Inclusive: SuperPlane-Laser 3G Pro, CrossGrip, Li-Ion battery pack with external charging station, power supply/battery charger incl. international adapter, complete in the L-BOXX 136

ORDER NO.	EAN-CODE	PU
036.650L	4 021563 700493	1

optional: Laser receiver CRX 40
CombiRangeXtender, including batteries and universal mount

033.35	4 021563 682928	1
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HIGH POWER

Combination and 3D-line lasers



CompactPlane-Laser 3D

Three-dimensional laser with a horizontal and two vertical 360° laser circles

- PowerBright-Laser with 3 bright 360° laser circles
- Straight forward plumb function using laser crosses
- Optimised for work close to the ceiling
- 3.5° self-levelling range, accuracy 0.35 mm / m
- Additional slope function for aligning inclines
- With the magnetic clamp and wall bracket CrossGrip the device can be used as a stand-alone unit, in a combination as well as in horizontal and vertical position. With adjustable clamping range.
- Out-Of-Level: is indicated by optical signals when the unit is outside its self-levelling range.
- RX-Ready: The laser receiver RX 40, which is available as an optional extra, can detect laser lines in a range of up to 40 m – ideal for outdoor applications.



UPDATE



Inclusive: CompactPlane-Laser 3D, CrossGrip, batteries, carrying case

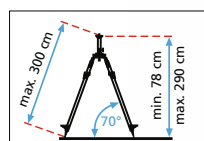
ORDER NO.	EAN-CODE	PU
036.290A	4 021563 695508	1
optional: Laser receiver RX 40		
RangeXtender, including batteries and universal mount		
033.40	4 021563 688036	1



CompactPlane-Laser 3D set 300 cm

Three-dimensional laser with compact tripod 300 cm

- Product description same as CompactPlane-Laser 3D without CrossGrip
- RX-Ready: The laser receiver RX 40, which is available as an optional extra, can detect laser lines in a range of up to 40 m – ideal for outdoor applications.



Inclusive



Inclusive: CompactPlane-Laser 3D, softbag, batteries, compact tripod 300 cm incl. softbag

ORDER NO.	EAN-CODE	PU
036.291A	4 021563 700554	1
optional: Laser receiver RX 40		
RangeXtender, including batteries and universal mount		
033.40	4 021563 688036	1

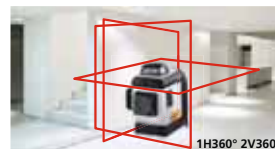


PowerPlane-Laser 3D Plus

Three-dimensional laser with a horizontal and two vertical 360° laser circles

- PowerBright-Laser* with 3 extremely bright 360° laser circles
- Straight forward plumb function using laser crosses
- Optimised for work close to the ceiling
- 2.5° self-levelling range, accuracy 0.2 mm / m
- Additional slope function for aligning inclines
- The magnetic wall mount allows the unit to be used as a stand-alone device or in combination with other devices – on walls and attached to magnetic objects. Additional for securing 5/8" thread tripods.
- Out-Of-Level: is indicated by optical signals when the unit is outside its self-levelling range.
- RX-Ready: The laser receiver RX 40, which is available as an optional extra, can detect laser lines in a range of up to 40 m – ideal for outdoor applications.

GEN2



Inclusive: PowerPlane-Laser 3D, CrossGrip, power supply/ battery charger, batteries, complete in the L-BOXX 136

ORDER NO.	EAN-CODE	PU
036.302L	4 021563 700134	1
optional: Laser receiver RX 40		
RangeXtender, including batteries and universal mount		
033.40	4 021563 688036	1



Precise sensor lasers



3D-line and adjustment lasers

Overview



PrecisionPlane-Laser 3D Pro	PrecisionPlane-Laser 3G Pro	PowerCross-Laser 8 S
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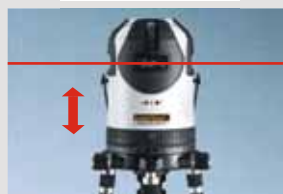
System	1H360°/ 2V 360°	1HG 360°/ 2VG360°	4H / 4V / 1D
Brightness	PowerBright*	Green DLD	PowerBright**
Accuracy mm / m	0,15	0,15	0,1
Number of laser lines	3	3	8
Laser spread	360°	360°	H360° (4 x 90°) V180°
Number of laser points			1
Plumb function	•	•	•
Individually switchable laser	•	•	•
Levelling range	2°	2°	3°
Levelling principle	Sensor-Automatic	Sensor-Automatic	Sensor-Automatic
Vertically adjustable rotary base			•
Vertical fine adjustment	•	•	•
AntiShake	•	•	•
Slope function	electronic	electronic	electronic
Receiver mode	•	•	•
Laser class	2	2	2

• = available

Powerful technology



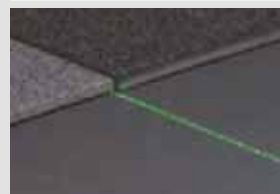
Electronic vials and positioning motors controlled by temperaturestable sensors for automatic alignment of devices. The devices are set to their initial position and align themselves automatically.



Additional function for all units with „Sensor Automatic“: The electronic permanently levels the units even if these are moving. For quick levelling, on vibrating surfaces and windy weather.



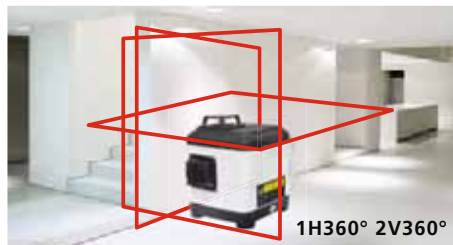
High-performance class laser diodes produce extremely bright laser lines. They remain visible even on surfaces at great distances or on dark surfaces as well as under bright ambient light conditions.



The green, state-of-the-art DLD laser diodes offer energy efficiency and high temperature stability, providing outstanding laser beam quality. The result is a sharp, distinct and therefore clearly visible laser line.



PrecisionPlane-Laser 3D Pro

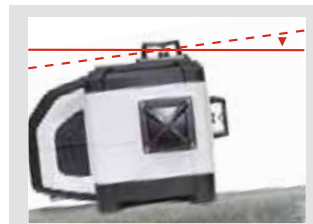


Three-dimensional laser with three 360° laser circles and metal base

- Additional slope function for aligning inclines
- Motorised adjustment up to $\pm 2^\circ$
- 2° self-levelling range, accuracy 0.15 mm / m
- Out-Of-Level: is indicated by optical signals when the unit is outside its self-levelling range.
- RX-Ready: The laser receiver RX 40, which is available as an optional extra, can detect laser lines in a range of up to 40 m – ideal for outdoor applications.
- Long-lasting, powerful rechargeable lithium-ion battery
- Adaptable metal base for exact laser line positioning with the rotary casing with vernier adjustment mechanism



Inclusive: PrecisionPlane-Laser 3D, metal base with vernier adjustment mechanism, Li-Ion battery pack with external charging station, power supply/battery charger incl. international adapter, batteries, carrying case



Sensor-Automatic

ORDER NO.	EAN-CODE	PU
036.400A	4 021563 699575	1



optional: Laser receiver RX 40
RangeXtender, including batteries and universal mount

033.40	4 021563 688036	1
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PrecisionPlane-Laser 3G Pro



Three-dimensional laser with three green 360° laser circles and metal base

- Product description same as PrecisionPlane-Laser 3D Pro
- Horizontal and vertical 360° laser lines with green DLD laser technology achieve high quality lines: precise, clear and therefore easily visible.
- GRX-Ready: in combination with the optional laser receiver, the integrated hand-held receiver mode permits detection of laser lines at long distances and under unfavourable light conditions.
- Green laser technology with 0°C...50°C temperature range



Inclusive: PrecisionPlane-Laser 3G, metal base with vernier adjustment mechanism, Li-Ion battery pack with external charging station, power supply/battery charger incl. international adapter, batteries, carrying case

ORDER NO.	EAN-CODE	PU
036.500A	4 021563 695492	1



optional: Laser receiver CRX 40
CombiRangeXtender, including batteries and universal mount

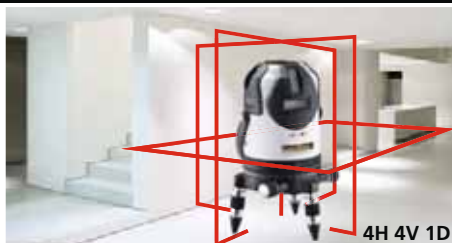
033.35	4 021563 682928	1
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Alignment lasers



PowerCross-Laser 8 S



High-precision cross-line laser with 8 ultra-bright laser lines and plumb function

- The 4 horizontal laser diodes project a very bright homogeneous 360° laser line, the 4 vertical laser lines are aligned at right angles to one another.
- Motorised adjustment up to $\pm 3^\circ$
- 3° self-levelling range, accuracy 0.1 mm / m
- IR remote control allows the manual slope function for aligning inclines to be controlled. The relevant axes are visually displayed via LEDs.
- Straightforward plumb function using laser cross at the top and additional plumb laser
- The pivoted housing can be turned with a vernier adjustment mechanism and horizontal circle to permit exact positioning of laser lines
- RX-Ready: The laser receiver RX 40, which is available as an optional extra, can detect laser lines in a range of up to 40 m – ideal for outdoor applications.

Inclusive: PowerCross-Laser 8 S, laser enhancement glasses, power supply/battery charger, remote control, tripod adapter (for crank tripods), rubber caps, lithium-ion rechargeable battery, complete in the L-BOXX 238



All laser lines as well as the slope function can be switched on/off individually via remote control.

ORDER NO.	EAN-CODE	PU
032.080L	4 021563 688289	1



optional: Laser receiver RX 40
RangeXtender, including batteries and universal mount

033.40	4 021563 688036	1
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Accessories

CombiRangeXtender 40



Laser receiver for all line lasers with RX and GRX READY technology

- Fast alignment work in close and long distance
- With RX- and GRX-READY, the laser lines pulsate at a high frequency. This pulsation allows the CombiRangeXtender to detect laser lines up to a maximum of 40 m away.
- Head and side magnets
- The universal mount enables the device to be attached to levelling staffs.

Inclusive: universal mount, batteries

ORDER NO.	EAN-CODE	PU
033.35	4 021563 682928	1



RangeXtender 40 Mag



Laser receiver with RX-READY technology

- Fast alignment work in close and long distance
- With RX-READY, the laser lines pulsate at a high frequency. This pulsation allows the RangeXtender 40 to detect laser lines up to a maximum of 40 m away.
- Head and side magnets
- The universal mount enables the device to be attached to levelling staffs.

Inclusive: universal mount, batteries

ORDER NO.	EAN-CODE	PU
033.40A	4 021563 703586	1



RangeXtender 51⁽¹⁾



Laser receiver with RX-READY technology

- Fast alignment work in close and long distance
- With RX-READY, the laser lines pulsate at a high frequency. This pulsation allows the RangeXtender 51 to detect laser lines up to a maximum of 50 m away.
- The universal mount enables the device to be attached to levelling staffs.

Inclusive: universal mount, battery

ORDER NO.	EAN-CODE	PU
033.20-1	4 021563 662920	1



Optional: softbag

Only for ACL 3C.

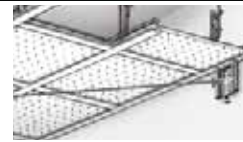


Magnetic target plate red / green



For all rotary lasers or laser instruments

- With adhesion magnets and dual scale
- E.g. for suspended ceilings



ORDER NO.	EAN-CODE	
023.61A	4 011879 643980	red
023.65	4 021563 663439	green



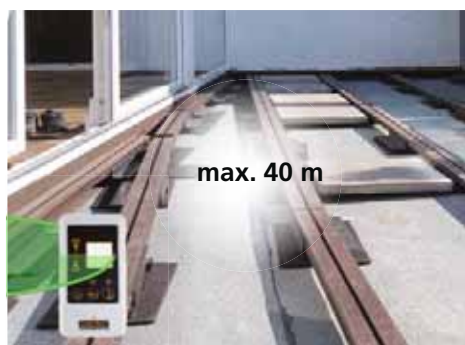
LaserVision red / green



Laser enhancement glasses for red and green lasers

- Optimum visibility of the laser marker from distance

ORDER NO.	EAN-CODE	
020.70A	4 011879 644000	red
020.71A	4 021563 684663	green

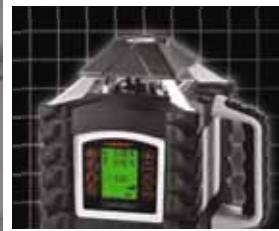


Laser receiver for cross-line lasers with RX technology

With the laser receiver the laser lines can be seen in any light. With RX-Ready-Technology the laser lines pulsate at a high frequency. This pulsation allows the RangeXtender 40 to detect laser lines up to 40 m away.

Universal mount for attachment on the levelling staff. Flexi levelling staffs are recommended for all ground level measurements.

Rotary lasers



INTERIOR FINISHING WORK, ABOVE AND BELOW GROUND CONSTRUCTION

Rotary lasers are used for a variety of survey tasks. Their primary task is to accurately convey heights, alignments and slopes over great distances, even in poor visibility. Laserliner rotary lasers feature a number of technologies that make measuring easier and safer and present numerous application options. Their reliability and accuracy have proved themselves in practical applications, even in very unusual situations.

Powerful technology



AUTOMATIC LEVEL

Automatic alignment of the device with a magnetically dampened pendulum system. The devices are set to their initial position and align themselves automatically in a matter of seconds.



ANTI SHAKE

Additional function for all units with „Sensor Automatic“: The electronic permanently levels the units even if these are moving. For quick levelling, on vibrating surfaces and windy weather.



SENSOR AUTOMATIC

SENSOR AUTOMATIC

Electronic vials and positioning motors controlled by temperaturestable sensors for automatic alignment of devices. The devices are set to their initial position and align themselves automatically.



ADS

Prevents erroneous or inaccurate measurements: Continuous monitoring of the alignment of the laser is activated 30 or 45 seconds after automatic levelling. Measurements will be suspended as a precaution if the device is disturbed unintentionally or moves due to the influence of external factors.



lock lock

Transport LOCK: Units with „Automatic Level“ are protected with a pendulum lock during transport. A special motor lock protects units with „Sensor Automatic“.



IP 66 IP 54

The measuring tools are characterised by specific protection against dust and rain.



Laser 635 nm

Rotary lasers with 635 nm technology have a large temperature range in which they operate reliably. Visibility is limited to indoor area applications.



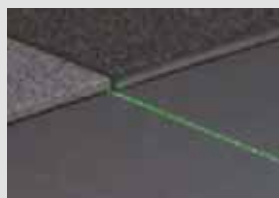
2 3R

Laser classes



Laser 515 nm Laser 532 nm

Green looks 6 times brighter than red. This makes possible applications on dark surfaces, over long distances and working even in very bright ambient light conditions. A red laser with a wavelength of 635 nm is used as reference for the difference in brightness.



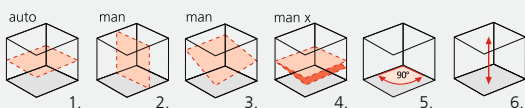
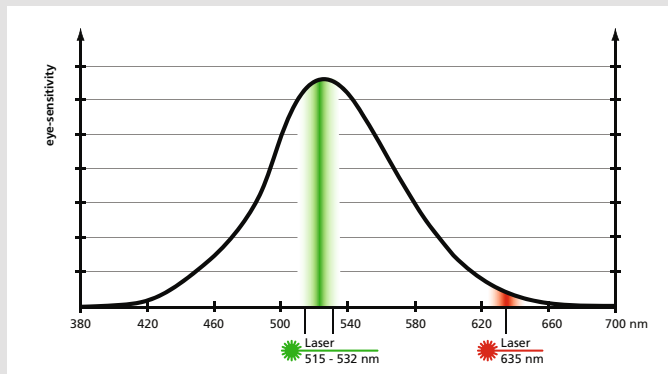
DLD

The green, state-of-the-art DLD laser diodes offer energy efficiency and high temperature stability, providing outstanding laser beam quality. The result is a sharp, distinct and therefore clearly visible laser line.



Green laser technique

Over what distance a laser is visible to the eye depends on the colour or wavelength of the laser beam. This has to do with the physiology of the human eye – green appears brighter to us than red. Depending on the ambient light conditions, therefore, green lasers are many times more visible than red ones – and indeed indoors, up to 6 times more.



The space grids show the laser planes and functions.
1. Horizontal levelling **3.** Slope function **5.** 90° angle
2. Vertical levelling **4.** Slope function of one axis **6.** Reference beam up/
 Plumb laser down

auto: Automatic alignment **man:** Manual alignment

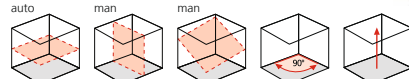
RECHARGE Battery system



Interior finishing work, above and below ground construction



AquaPro 310 S ⁽¹⁾



Automatic rotary laser with rapid horizontal self-levelling
 – Vertical alignment with adjustable foot
 – 3.5° self-levelling range, accuracy 0.2 mm / m
 – Laser modes: rotary and hand receiver mode
 – Laser receiver range up to 300 m radius

Inclusive: AquaPro, SensoLite 310, universal mount, wall/floor base, rechargeable batteries, power supply/battery charger, carrying case, batteries

ORDER NO.	EAN-CODE	PU
046.02.00A	4 021563 663835	1



AquaPro 120 Plus set 165 cm



Automatic rotary laser with laser receiver, tripod, levelling staff and rechargeable batteries/charger
 – Vertical alignment with adjustable foot
 – 3.5° self-levelling range, accuracy 0.2 mm / m
 – Laser modes: rotary and hand receiver mode
 – Laser receiver range up to 120 m radius

Aluminium lightweight tripod 165 cm
 – With milled mounting surface and quick-release lock
 – 5/8" thread adapter, sturdy steel feet

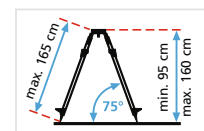
Flexi levelling staff Plus
 – Product description same as on page 98

Inclusive: AquaPro, SensoLite 120, universal mount, wall/floor base, rechargeable batteries, power supply/battery charger, aluminium lightweight tripod 165 cm, flexi levelling staff Plus, softbag, batteries

Inclusive batteries and charger

RECHARGE **LONG OPERATING TIME**

ORDER NO.	EAN-CODE	PU
046.03.00A	4 021563 690527	1



Inclusive

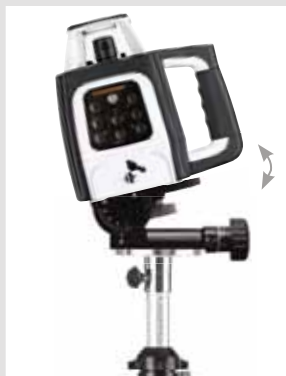
Interior finishing work, above and below ground construction

Overview



	AquaPro	Cubus	Quadrum OneTouch	Quadrum	Quadrum DigiPlus	Centurium Express
Horizontal	auto	auto	auto	auto	auto	auto
Vertical	manual	auto		auto	auto	auto
Accuracy mm / m	0.2	0.15	0.075	0.1	0.075	0.075
Reference beam up	•	•		•	•	•
Plumb laser down				•	•	•
HighSpeed						•
Levelling range	3.5°	4°	5°	5°	6°	4°
Levelling principle	Automatic Level	Sensor-Automatic	Sensor-Automatic	Sensor-Automatic	Sensor-Automatic	Sensor-Automatic
AntiDriftSystem (Tilt)	•	•	•	•	•	•
Vertical fine adjustment				•	•	•
AntiShake			•			•
Slope function	manual	manual	DualSlope	DualSlope	Single-/DualGrade	DualSlope
Remote control		•	•	•	•	•
Receiver mode	•	•	•	•	•	•
Green laser technology		○		○		•
Laser classes	2	2 / Green 2	2	2 / Green 2	2	2 / Green 3R

• = available ○ = optional



Angle Bracket

Steeper slopes can be set using the optional angle plate and a tripod. Fine adjustment can easily achieve 0.1°. At the same time, gradients can be laid out exactly.



Laserliner instruments are available in hard-shell cases.
HARD: plastic carry case



L-BOXX

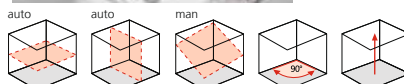
Mobile carrying case system for safely transporting measuring instruments and accessories flexible, practical and compatible with the Sortimo® vehicle equipment system



Interior finishing work, above and below ground construction

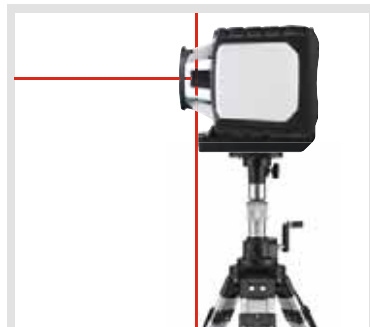


Cubus 110 S



- Fully automatic rotary laser**
- 4° self-levelling range, accuracy 0.15 mm / m
 - Laser modes: spot, scan, rotary and hand receiver mode
 - All functions of the rotary laser can be controlled with the remote control from up to 40 m.
 - The additional reference beam makes alignment of partitions easier.
 - Snap-on stand/wall bracket
 - Laser receiver range up to 100 m radius

Inclusive: Cubus, SensoLite 110, stand/wall bracket, universal mount, remote control, rechargeable battery, power supply/battery charger, carrying case



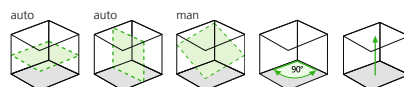
Can be vertically positioned on ground or tripod

ORDER NO.	EAN-CODE	PU
052.200A	4 021563 694761	1

Cubus G 110 S



- Fully automatic rotary laser with green DLD-laser technology**
- Product description same as Cubus 110 S
 - With DLD technology for a clearly visible laser beam
 - Green laser technology with 0°C...50°C temperature range



Inclusive: Cubus G, SensoLite 110 G, stand/wall bracket, universal mount, remote control, rechargeable battery, power supply/battery charger, carrying case

ORDER NO.	EAN-CODE	PU
052.300A	4 021563 695201	1

Interior finishing work, above and below ground construction



Quadrum OneTouch 410 S



One-button operation rotary laser. For horizontal levelling over great distances.

- Simple one-button operation
- 5° self-levelling range, accuracy 0.075 mm / m
- Laser modes: spot, scan, rotary and hand receiver mode
- All functions of the rotary laser can be controlled with the remote control from up to 40 m.
- The 4 IR receiving diodes allow this instrument to be remotely operated from all sides.
- Integrated safe-operating concept OneTouch
- Laser receiver range up to 400 m radius

Inclusive: Quadrum OneTouch, SensoLite 410, universal mount, remote control, rechargeable battery, battery compartment, power supply/battery charger, carrying case, batteries



ORDER NO.	EAN-CODE	PU
053.200A	4 021563 677849	1



OneTouch operation
The laser is switched over from setup mode (AntiShake) into secure mode (ADS-Tilt) with a single press of a button - simple operation.



Quadrum OneTouch 400 Pro S



One-button operation rotary laser
- Product description same as Quadrum OneTouch 410 S
- With SensoMaster 400 Pro instead of SensoLite 410

Inclusive: Quadrum OneTouch, SensoMaster 400 Pro, universal mount, remote control, rechargeable battery, battery compartment, power supply/battery charger, carrying case, batteries



ORDER NO.	EAN-CODE	PU
053.250A	4 021563 700110	1

Interior finishing work, above and below ground construction



Can be vertically positioned on ground or tripod

Quadrum 410 S



Fully automatic rotary laser

- With additional red plumb laser
- 5° self-levelling range, accuracy 0.1 mm / m
- Laser modes: spot, scan, rotary and hand receiver mode
- All functions of the rotary laser can be controlled with the remote control from up to 40 m.
- The 4 IR receiving diodes allow this instrument to be remotely operated from all sides.
- Laser receiver range up to 400 m radius

Inclusive: Quadrum, SensoLite 410, universal mount, remote control, rechargeable battery, battery compartment, power supply/battery charger, carrying case, batteries

ORDER NO.	EAN-CODE	PU
053.00.07A	4 021563 670772	1



Quadrum 400 Pro S



Fully automatic rotary laser

- Product description same as Quadrum 410 S
- With SensoMaster 400 Pro instead of SensoLite 410

Inclusive: Quadrum, SensoMaster 400 Pro, universal mount, remote control, rechargeable battery, battery compartment, power supply/battery charger, carrying case, batteries

ORDER NO.	EAN-CODE	PU
053.00.10A	4 021563 670758	1

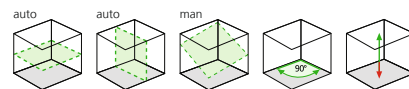


Quadrum G 410 S



Fully automatic rotary laser with green DLD-laser technology

- Product description same as Quadrum 410 S
- With DLD technology for a clearly visible laser beam
- Green laser technology with 0°C...50°C temperature range



Inclusive: Quadrum G, SensoLite 410, universal mount, remote control, rechargeable battery, battery compartment, power supply/battery charger, carrying case, batteries

ORDER NO.	EAN-CODE	PU
053.00.02A	4 021563 677856	1

Interior finishing work, above and below ground construction

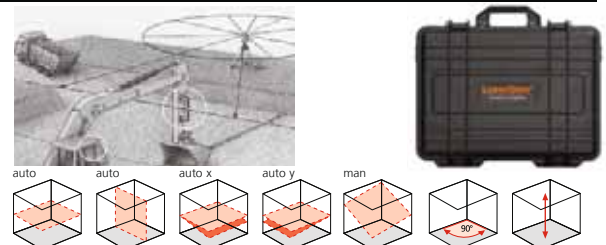


Quadrum DigiPlus 410 S



2-axis inclination laser

- 6° self-levelling range, accuracy 0.075 mm / m
- Deviation from the horizontal plane can be set digitally in X and Y axes.
- Laser modes: spot, scan, rotary and hand receiver mode
- High maximum speed of 600 rpm
- Large illuminated LCD
- The laser modes of the rotary laser can be controlled with the remote control from up to 40 m.
- The 4 IR receiving diodes allow this instrument to be remotely operated from all sides.
- Laser receiver range up to 400 m radius



Inclusive: Quadrum DigiPlus, SensoLite 410, universal mount, remote control, rechargeable battery, battery compartment, power supply/battery charger, carrying case, batteries

ORDER NO.	EAN-CODE	PU
053.300A	4 021563 682270	1



Clearly arranged, illuminated LCD

All operating modes are shown on the large LC display. This makes it easy and straightforward to set up the device. Direct read-off of set inclination.

Quadrum DigiPlus 400 Pro S



2-axis inclination laser

- Product description same as Quadrum DigiPlus 410 S
- With SensoMaster 400 Pro instead of SensoLite 410

Inclusive: Quadrum DigiPlus, SensoMaster 400 Pro, universal mount, remote control, rechargeable battery, battery compartment, power supply/battery charger, batteries, carrying case, batteries

ORDER NO.	EAN-CODE	PU
053.400A	4 021563 684007	1

Interior finishing work, above and below ground construction



Can be vertically positioned on ground or tripod

Centurium Express 410 S



- Fully automatic rotary laser**
- 4° self-levelling range, accuracy 0.075 mm / m
 - Laser modes: spot, scan, rotary and hand receiver mode
 - All functions of the rotary laser can be controlled with the remote control from up to 40 m.
 - The 4 IR receiving diodes allow this instrument to be remotely operated from all sides.
 - Extremely high speed of max. 800 rpm for fast results in express hand-held receiver mode
 - AntiShake function for quick set-up on ground with slight vibrations and in strong wind
 - Laser receiver range up to 400 m radius

Inclusive: Centurium Express, SensoLite 410, universal mount, remote control, rechargeable battery, battery compartment, power supply/battery charger, batteries, complete in the L-BOXX 238

ORDER NO.	EAN-CODE	PU
056.100L	4 021563 685288	1



Centurium Express 400 Pro S



- Fully automatic rotary laser**
- Product description same as Centurium Express 410 S
 - With SensoMaster 400 Pro instead of SensoLite 410

Inclusive: Centurium Express, SensoMaster 400 Pro, universal mount, remote control, rechargeable battery, battery compartment, power supply/battery charger, batteries, complete in the L-BOXX 238

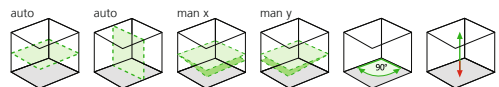
ORDER NO.	EAN-CODE	PU
056.200L	4 021563 700103	1



Centurium Express G 410 S



- Fully automatic rotary laser with green laser technology**
- Product description same as CenturiumExpress 410 S



Inclusive: Centurium Express G, SensoLite 410, universal mount, remote control, rechargeable battery, battery compartment, power supply/battery charger, batteries, complete in the L-BOXX 238

ORDER NO.	EAN-CODE	PU
056.500L	4 021563 685301	1



Interior finishing work, above and below ground construction

Laser receiver technology

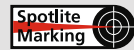


Device operation is made easier by infrared remote controls. Furthermore, measurement results are bound to be reliable, since the position of the measuring tools does not change.



**HIGH
SPEED**

The receiver speeds up response times – rapid detection accelerates work rates.



The SpotLite function – a projected light beam at the height of the laser beam – makes precise marking easy and prevents parallax errors.



For many measuring tools, the key to optimum working is magnetic adhesion. This leaves the hands free to complete other tasks.



The measuring tools are characterised by specific protection against dust and rain.



Laser reception range	red	green
SensoLite 110	100 m	100 m
SensoLite 310	300 m	200 m
SensoLite 410	to 400 m	to 400 m
SensoMaster 400 Pro	to 400 m	-



Accessories

SensoLite 110 set



- Laser receiver for rotary lasers**
- The LC display on the front and acoustic signals show the height of the laser beam.
 - Piezo buzzing sound
 - With head magnet
 - Laser reception range up to 100 m for red lasers

Not suitable for green lasers.

Inclusive: universal mount, batteries

ORDER NO.	EAN-CODE	PU
028.65	4 021563 694792	1



SensoLite 110 G set



- Laser receiver for rotary lasers**
- The LC display on the front and acoustic signals show the height of the laser beam.
 - Piezo buzzing sound
 - With head magnet
 - Laser reception range up to 100 m for green lasers

Not suitable for red lasers.

Inclusive: universal mount, batteries

ORDER NO.	EAN-CODE	PU
028.66	4 021563 695652	1



SensoLite 310 set



- Laser receiver for rotary lasers**
- One LCD on the front and one on the rear
 - Five-digit display, various acoustic melodies support the optical indicators
 - Extremely loud piezo buzz tone possible
 - Head and side magnets
 - Laser reception range up to 300 m for red lasers
 - 200 m for green lasers
 - Extremely durable design



Inclusive: universal mount, battery

ORDER NO.	EAN-CODE	PU
028.71	4 021563 663262	1



SensoLite 410 set



- High-performance laser receiver with extremely large receiving range for red and green rotary lasers**
- Extremely long laser reception range for quick laser acquisition at great distances
 - LC displays on the front and rear. Acoustic signals show the height of the laser beam.
 - Illuminated front LC display
 - Extremely bright 3-colour LEDs are located at the front, rear and side for remote identification.
 - Versus function: The receiver monitors the reference height of the rotary laser, thus effectively preventing false measurements. Visual and acoustic signals indicate when the laser beam moves out of the reference height, e.g. as the result of external influences acting on the rotary laser.
 - Extremely loud piezo buzzing sound possible
 - Strong head and side magnets
 - Universal holder with circular bubble level
 - Laser reception range up to 400 m



Inclusive: universal mount, battery

ORDER NO.	EAN-CODE	PU
028.75	4 021563 677214	1

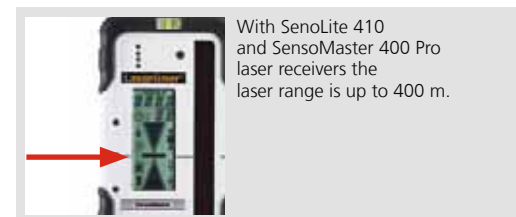


SensoMaster 400 Pro set



- High performance laser receiver for rotary lasers**
- 127 mm long laser receiver unit
 - Millimetre exact distance reading for laser level
 - Height difference to laser level is indicated by the double-sided LC display.
 - Three bright LED's on the front plus, if desired, an extreme loud piezo sound show the height in relationship to the laser plane.
 - Circular bubble level
 - Has a special protective rubber case
 - Laser reception range up to 400 m for red lasers

Not suitable for green lasers.



Inclusive: universal mount, batteries

ORDER NO.	EAN-CODE	PU
028.80	4 021563 663934	1



Accessories



SensoPilot Pro



Machine laser receiver for construction machine control

- In combination with a rotary laser, the SensoPilot serves as a continuous guide for height control.
- Each of its four laser receiver units, which measure 25 cm in length, can receive the laser beam in a 360° radius.
- Large clearly visible LEDs show the laser's plane.
- Range 200 m
- Highly durable waterproof and dust-proof housing
- With powerful magnets to fasten the device to the machine

Inclusive: built-in battery, power supply/battery charger, 12/24 V battery cable, carrying case

Not suitable for green lasers.

ORDER NO.	EAN-CODE	PU
035.00A	4 021563 658787	1



Remote Display for SensoPilot



This remote display allows reference height to be monitored from the driver's seat of the construction machine.

- This is the ideal complement for the SensoPilot mobile laser receiver
- Very robust design with mounting socket
- Water and dust-proof housing

Inclusive: connection cable for SensoPilot

ORDER NO.	EAN-CODE	PU
035.01	4 021563 658800	1

Mounting Brackets

for SensoPilot (2 pcs.)



ORDER NO.	EAN-CODE	PU
035.02	4 021563 660452	1

Automatic levelling instruments



PRACTICAL UNIVERSAL DEVICES

Levelling instruments are used for special tasks on large building sites. They work like a precision telescope, with an artificial target line generated at a specified height – the horizontal reference. An automatic leveller automatically adjusts the target line in the horizontal plane.



Horizontal circle with endless vernier adjustment for precise targeting.



Practical, adjustable fold-up mirror for simple alignment with a circular spirit level.



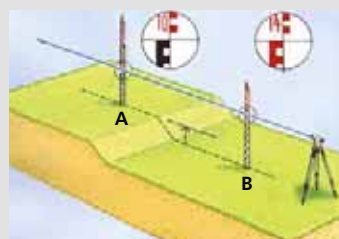
Long-distance scale with E graduation



The 165 cm tall, ball-head tripod allows an AL 26 to be aligned rapidly.

Measuring with level

To determine the height difference in the example shown here, the levelling staff is first set up at Point A. The optical system of the level has automatically aligned itself horizontally. With the help of the optical sight marking, it is now possible to read off the distance between Point A and the sight line shown in blue. The staff can now be positioned at any Point B, and the second measuring point read off through the sight.



Calculation of height difference

$$\text{Height A} - \text{Height B} = \text{Height difference H}$$



Proven and tested optical measuring instruments

Automatic Optical Level 22 Classic



Robust, reliable levelling instrument with bright, high-performance lenses

- Practical quick target finder
- Magnetically damped compensator
- Magnification 22 x
- Standard deviation 2.5 mm / km
- 360° horizontal circle, 400 gon on request
- The cross hair can be calibrated in all directions due to high quality 2 axis
- With transport securing device

Inclusive: AL 22, plumb bob, allen wrench, calibration needle, carrying case with strap

ORDER NO.	EAN-CODE	PU
080.82	4 021563 652563	1



Automatic Optical Level 22 Classic set



Levelling set with tripod and levelling staff



Inclusive



Inclusive: AL 22 Classic, aluminium lightweight tripod 165 cm, telescopic levelling staff 4 m

ORDER NO.	EAN-CODE	PU
080.82-0	4 021563 664702	1



Automatic Optical Level 26 Classic



Robust, reliable levelling instrument with bright, high-performance lenses

- Practical quick target finder
- Magnetically damped compensator
- Magnification 26 x
- Standard deviation 1.5 mm / km
- 360° horizontal circle, 400 gon on request
- The cross hair can be calibrated in all directions due to high quality 2 axis
- With transport securing device

Inclusive: AL 26, plumb bob, allen wrench, calibration needle, carrying case with strap

ORDER NO.	EAN-CODE	PU
080.83	4 021563 652570	1



Automatic Optical Level 26 Classic set



Levelling set with tripod and levelling staff



Inclusive

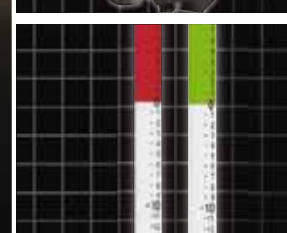
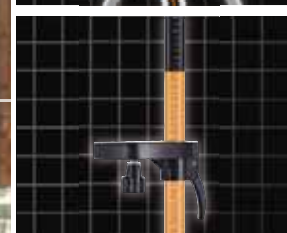


Inclusive: AL 26 Classic, ball-head tripod 165 cm, telescopic levelling staff 5 m

ORDER NO.	EAN-CODE	PU
080.83-1	4 021563 663637	1



Accessories for laser and levelling devices



THE BASIS FOR RELIABLE WORK

To make full use of all the capabilities offered by a line- and rotation laser or automatic level, a tripod is necessary. Laserliner offers an extensive range of tripods, since different tasks call for different technical solutions. Wallmounts ease ceiling work.



Professional crank lift on the professional crank tripod with mm graduation

Quick-release lock for equal extension of all legs



The seat for the instrument is milled and surface-ground



An all-round steel chain prevents the legs from spreading on smooth floors



Crank lift with mm graduation



Sturdy steel feet with rubber casing



Hook for plumb bob directly beneath the fixing screw



Adjustable carrying strap

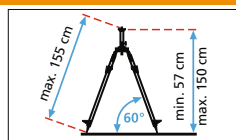
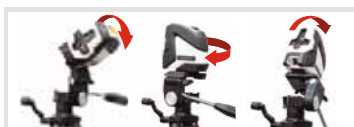


Tripods

FixPod 155 cm



- Tripod for SuperCross-Laser series, SmartLine-Laser 360°, SmartCross-Laser and laser distance meters**
- 1/4" tripod connection
 - 3-way tripod head
 - Crank lift (30 cm) and telescopic tripod legs
 - Rubber-steel tips for use on different surfaces



Inclusive: softbag

ORDER NO. EAN-CODE PU

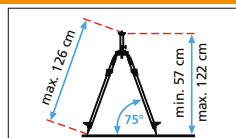
090.132A 4 021563 678990 6



Compact Tripod 120 cm



- High-quality mini crank tripod of aluminium**
- 5/8" thread adapter
 - Circular bubble level
 - Crank lift 30 cm
 - Special combination feet (rubber steel tips) facilitate adaptation to different surfaces



ORDER NO. EAN-CODE PU

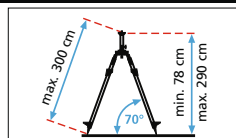
080.29 4 021563 652266 1



Compact Tripod 300 cm



- High-quality, very compact crank tripod made of aluminium**
- 5/8" thread adapter
 - Circular bubble level
 - Multi-section telescoping tripod legs and crank lift (31.5 cm) permit large adjustment range.
 - Special combination feet (rubber steel tips) facilitate adaptation to different surfaces



Inclusive: softbag

ORDER NO. EAN-CODE PU

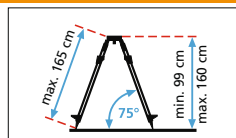
080.37 4 021563 670666 1



Lightweight Tripod 165 cm



- Lightweight design with milled mounting surface**
- 5/8" thread adapter
 - Sturdy steel feet
 - Quick-release lock



Inclusive: hook for plumb bob, carrying strap

ORDER NO. EAN-CODE PU

080.02 4 021563 694082 1

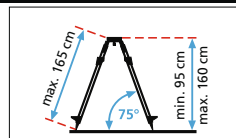


Ball-head Tripod 165 cm



- Lightweight design with ball shaped mounting surface**
- 5/8" thread adapter
 - Sturdy steel feet
 - Quick-release lock

Special for automatic levels AL 22 / 26.



Inclusive: hook for plumb bob, carrying strap

ORDER NO. EAN-CODE PU

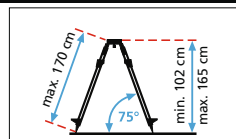
080.06 4 021563 658190 1



Construction tripod 170 cm



- Heavy design with milled mounting surface**
- 5/8" thread adapter
 - Sturdy steel feet
 - Steel chains
 - Quick-release lock



Inclusive: hook for plumb bob, carrying strap

ORDER NO. EAN-CODE PU

080.11 4 021563 694105 1



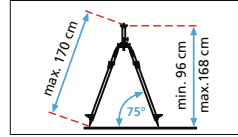
Tripods

Crank Tripod P 170 cm



Heavy design with integrated professional crank height adjustment

- 5/8" thread adapter
- Circular bubble level
- Extremely long crank lift (46 cm) allows a large range of adjustment.
- Crank can be fixed in place without any play.
- Special combination feet (rubber steel tips) facilitate adaptation to different surfaces
- Sturdy steel feet



Inclusive: carrying strap

ORDER NO.	EAN-CODE	PU
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080.28	4 021563 695218	1
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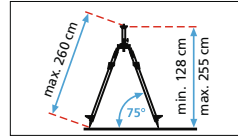


Crank Tripod P 260 cm



Heavy design with integrated professional crank height adjustment

- 5/8" thread adapter
- Circular bubble level
- Extremely long crank lift (70 cm) allows a large range of adjustment.
- Crank can be fixed in place without any play.
- Special combination feet (rubber steel tips) facilitate adaptation to different surfaces
- Sturdy steel feet
- Steel chains



Inclusive: carrying strap

ORDER NO.	EAN-CODE	PU
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080.35	4 011879 633462	1
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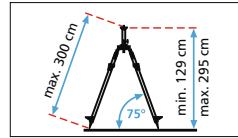


Crank Tripod P 300 cm



Heavy design with integrated professional crank height adjustment

- 5/8" thread adapter
- Suitable for windy conditions thanks to stability fitting
- Circular bubble level
- Extremely long crank lift (60 + 60 cm) allows a large range of adjustment.
- Crank lift can be fixed and adjusted without play.
- Special combination feet (rubber steel tips) facilitate adaptation to different surfaces
- Sturdy steel feet



Inclusive: carrying strap

ORDER NO.	EAN-CODE	PU
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080.39	4 021563 694075	1
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Telescopic Stand 330 cm



High-quality aluminium telescopic stand, ideal for quick changes in applications where working positions vary

- 1/4" and 5/8" thread adapter
- The stand is clamped between floor and ceiling then the laser measuring tool is turned manually to set it to the correct height ready for operation.
- 5-piece design for easy transport
- Height approx. 330 cm

Inclusive: telescopic adapter, softbag



ORDER NO.	EAN-CODE	PU
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090.120A	4 021563 665372	4
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TelePod 270 cm



High-quality aluminium telescopic stand, ideal for quick changes in applications where working positions vary

- 1/4" thread adapter
- The stand is clamped between floor and ceiling then the laser measuring tool is turned manually to set it to the correct height ready for operation.
- 4-piece design for easy transport
- Height approx. 270 cm



Inclusive: clamp bracket, softbag

ORDER NO.	EAN-CODE	PU
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090.140A	4 021563 695997	4
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Fasteners

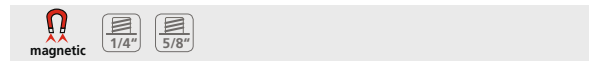
Tripod Mount



Tripod mount
 – For securing 5/8" thread tripods
 – For use on walls and magnetic objects

For all laser measuring devices with 1/4" threads.

ORDER NO.	EAN-CODE	PU
036.26	4 021563 692934	1



Magnetic Wall Mount

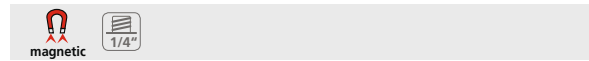


Two magnetic wall brackets – versatile use
 – Can be used individually or in combination – on walls and magnetic objects

For all laser measuring devices with 1/4" threads.



ORDER NO.	EAN-CODE	PU
036.25	4 021563 689934	1



CrossGrip



0°
POSITION

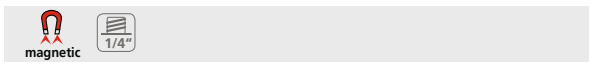


Clamp and wall bracket – versatile use
 – Can be used individually or in combination – on walls and magnetic objects

For all laser measuring devices with 1/4" threads.



ORDER NO.	EAN-CODE	PU
036.27	4 021563 695478	1



CenterBase



CenterBase 1
Alignment base for PowerPlane-Laser 3D
 – Stable metal base with vernier adjustment
 – The free-moving alignment base allows the floor or ceiling cross to be positioned exactly, even when the unit is mounted on a tripod.
 – Adjustable feet and circular bubble level for optimum setup.

CenterBase 2
Alignment base for SuperPlane-Laser 3D Pro / 3G Pro
 – Product description same as CenterBase 1

ORDER NO.	EAN-CODE	PU
CENTERBASE 1 036.28	4 021563 695805	1
CENTERBASE 2 036.31	4 021563 703999	1



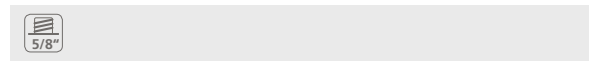
Wall / Vertical Mount



For Laserliner rotary- and linelasers
 – With height adjustment and clamp bracket for attachment to construction elements.

For all laser measuring devices with 5/8" threads.

ORDER NO.	EAN-CODE	PU
080.70	4 011879 631178	1



Wall Mount Pro

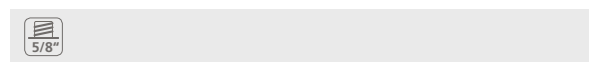


For Laserliner rotary- and linelasers
 – With positioning wheel for precise height adjustment, clamp holder for attachment to structural elements.

For all laser measuring devices with 5/8" threads.



ORDER NO.	EAN-CODE	PU
080.71	4 021563 658817	1



Fasteners and levelling staffs

Angle Bracket 5/8"

Professional design with angle scale
 – Tripod adapter for aligning inclines

For all laser measuring devices with 5/8" threads.



ORDER NO.	EAN-CODE	PU
080.75	4 021563 662821	1



TelePilot 5 m



Steel tape measure with viewing window



Professional telescopic measure with window
 – Allows even great heights to be read with accuracy
 – Guided, inside steel tape measure
 – For inside and outside measurement
 – With lock for each individual section



ORDER NO.	EAN-CODE	PU
075.105	4 011879 635398	2

Flexi Levelling Staff Plus red / green

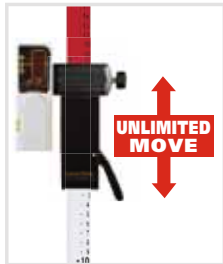
For all measurement of floor height
 – Reference height approx. 80-190 cm ± 50 cm measurement range, max. length approx. 240 cm
 – Height difference can be read off directly with no calculation necessary
 – Unmatched by any normal levelling staff

FlexiSlider

– Optimum positioning aid for laser receiver at Flexi levelling staff Plus
 – Smooth slider for quick and easy use
 – With quick-action clamp

Flexi levelling staff Plus red
 – Ideal for red lasers

Flexi levelling staff Plus green
 – Ideal for green lasers



UNLIMITED MOVE



Inclusive: FlexiSlider



	ORDER NO.	EAN-CODE	PU
red	080.50	4 011879 631147	1
green	080.51	4 021563 664948	1

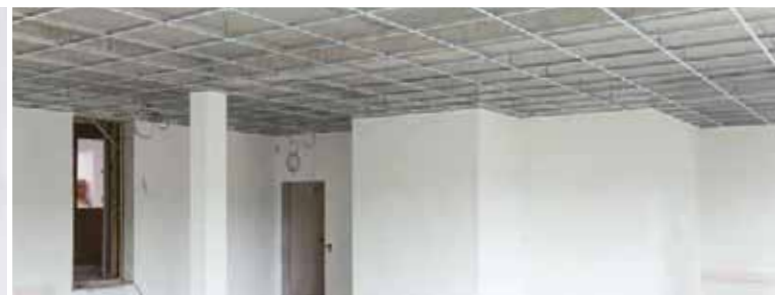
Telescopic Levelling Staff LT 4 m / 5 m

Easily legible, highly stable levelling staffs for use even under extreme conditions

– Made of strong aluminium section
 – For optical levels and rotary lasers
 – Telescopic Levelling Staff 4 m: max. height 4 m, min. height 1.19 m
 – Telescopic Levelling Staff 5 m: max. height 5 m, min. height 1.22 m



ORDER NO.	EAN-CODE	
080.42	4 021563 694112	4 m
080.43	4 021563 694129	5 m



Laserliner Store



Promotion

PersonalMicroLight PML 25



Mini flashlight with snaplink for easy attachment to bags and clothing
 – Anodized aluminium casing
 – Metal, black

Inclusive: PersonalMicroLight PML 25, packaging box, batteries

ORDER NO.	EAN-CODE	PU
3.7414	4 021563 679645	1



CarryMax



Compact, digital hanging scale that allows for the easy and comfortable measurement of luggage, backpacks, bags etc.
 – Wide measuring range
 – Can be operated with one hand or two hands for heavy objects
 – Auto-Hold function
 – Tara function to determine differences in weights
 – Hook with strap holder to safely hang the objects to be measured
 Measuring range: 0...55 kg
 Resolutive: 50 g

Inclusive: CarryMax, fishing hook, battery

ORDER NO.	EAN-CODE	PU
085.101A	4 021563 688852	5



Laserpointer Business Green



Modern business presentation aid for pointing in bright environments
 – Green laser point
 – Black metal housing with soft-grip surface
 – Laser class 2 < 1mW
 – Range 100 m



Inclusive: Laserpointer Green, metal box, batteries

ORDER NO.	EAN-CODE	PU
020.100A	4 021563 665365	1



ThermoMaître



Professional thermometer for grilling, cooking and roasting with display for ideal temperatures for beef, pork, lamb, chicken and fish
 – To determine core temperatures
 – Short measuring times thanks to tried and tested high-speed sensor technology
 – Measurement in °C or °F
 – Fold-out probe for insertion with very thin tip that is easy to insert
 – Large LC display
 – Sturdy, practical housing in an appealing design

Measuring range: -40°C...230°C
 Accuracy: <-18°C ± 4°C, -18°C...100°C ± 2°C, >100°C ± 4°C

Inclusive: ThermoMaître, batteries

ORDER NO.	EAN-CODE	PU
082.029A	4 021563 688203	5



BBQ-GasCheck



Measuring device for determining gas level in LPG cylinders
 – Visual signal for indicating level
 – Auto shut-off function
 – Applications: e.g. camping, barbecue, for radiant heaters gas

Aluminium/steel cylinder diameter 200...350 mm

Inclusive: BBQ-GasCheck, battery

ORDER NO.	EAN-CODE	PU
082.161A	4 021563 696482	5



Brand shop

Laserliner Polo-shirt / T-shirt



...01 / Polo-shirt: Long sleeve, black
 – Printed on one side
 – 100% heavy-duty cotton

...03 / T-shirt: Short sleeve, black
 – Printed on one side
 – 100% heavy-duty cotton

	ORDER NO.	EAN-CODE	PU
	...01 / ...03	4 021563.....	
Size M	020.83...M	...665068 /...666300	1
Size L	020.83...L	...665075 /...665679	1
Size XL	020.83...XL	...665082 /...665686	1
Size XXL	020.83...XXL	...665099 /...665693	1

Laserliner BusinessShirt



Comfortable stretch shirt
 – Long sleeve, black
 – Fitted waist with logo print
 – With breast pocket
 – 97% cotton / 3% spandex

	ORDER NO.	EAN-CODE	PU
Size M	020.83.05M	4 021563 688753	1
Size L	020.83.05L	4 021563 688760	1
Size XL	020.83.05XL	4 021563 688784	1
Size XXL	020.83.05XXL	4 021563 688791	1

BaseCap



Peaked cap – sporty classic
 – Black, 100% heavy-duty cotton
 – With logo stick
 – Vent holes and satin sweatband make it comfortable to wear
 – With metal clip fastener for perfect fit

	ORDER NO.	EAN-CODE	PU
	020.83.06	4 021563 695959	1

Flag



- Outdoor flag**
 – Size: Upright format 1.50 x 3.50 m
 – 2-colour, UV-resistant polyester,
 – With reinforced seams
 – 4 snap hooks
- Outdoor flag**
 – Version as above for flag pole with extension arm
- Indoor flag**
 – Version as above with hemstitch at top and bottom, with white hanging cord

Inclusive: softbag

	ORDER NO.	EAN-CODE	PU
1	020.940.01	4 021563 669097	1
2	020.940.02	4 021563 680504	1
3	020.940.03	4 021563 680511	1

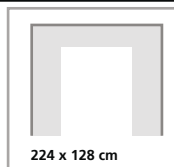


Showroom

LaserlinerShop



**Shop in shop solution:
Sales display with integrated product demo**
 – Optimum product presentation for sales room
 – Black sales wall with light boxes on the outside
 – Demo area accessible, closed on three sides, white particle board walls, suspended ceiling and floor slab
 – Size: 224 x 260 x 128 cm (W x H x D)

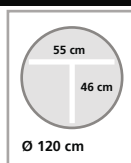


ORDER NO.	EAN-CODE	PU
020.86	4 021563 683536	1

Round Tower



Free standing, rotating sales display for product presentation
 – Black case, can be equipped from three sides
 – With two bottom shelves and 20 Euro hooks, 20 cm long
 – Size: 120 x 200 cm (ø x H)



ORDER NO.	EAN-CODE	PU
020.88	4 021563 687961	1

Store display case 60 cm

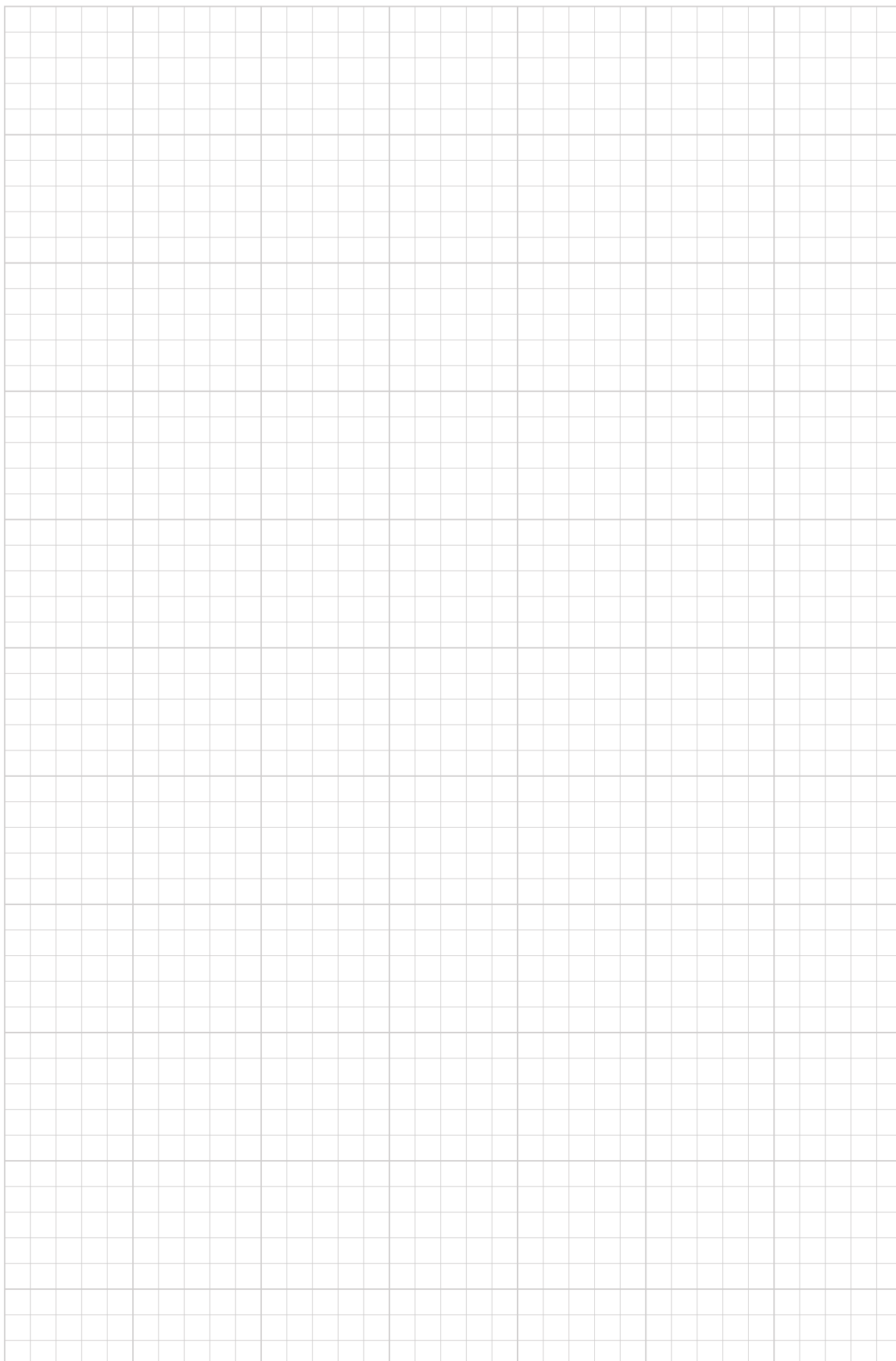
Product presentation in illuminated display case (not including measuring instruments)

– Body black on outside, white on inside, with glass shelf, lighting and rear panel
 – Size: 60 x 80 x 45 cm (W x H x D)



ORDER NO.	EAN-CODE	PU
020.80.8-19	4 011879 643942	1





4 YEARS WARRANTY
JAHRE GARANTIE

CERTIFIED DESIGN AND QUALITY

Devices bought after 01.03.2016 have a warranty of 4 years from purchase date on. Rechargeable batteries and accessories are excluded.

Further information on www.laserliner.com/garantie

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