

**PRIMUS<sup>2</sup> H** The fully automatic horizontal rotating laser

**PRIMUS<sup>2</sup> H2N** The fully automatic dual slope laser

**PRIMUS<sup>2</sup> H2N+** Fully automatic dual slope laser with tilt control and

automatic re-levelling when in slope mode

**PRIMUS<sup>2</sup> HVA** The fully automatic horizontal/vertical rotating laser

with AutoAlign function

**PRIMUS<sup>2</sup> HVA2N** The fully automatic horizontal/vertical dual slope laser

with AutoAlign function



Nedo **PRIMUS<sup>2</sup>**, the series of fully automatic rotating lasers for professionals. Ideal for levelling, aligning and grade control. Reliable and rugged for tough construction jobs. Uncompromising quality for professionals. All **PRIMUS<sup>2</sup>** models can also be supplied with laser class 3R or laser class 2 with Bright Beam technology<sup>™</sup>.
The **PRIMUS<sup>2</sup>** series sets a new standard for fully automatic rotating lasers.

High technology made in Germany.



# **The Fully Automatic Rotating Lasers Made in Germany**



# Included as standard: PRIMUS<sup>2</sup> carefree package with

- 3-year warranty
- Free annual check during the warranty period



# **PRIMUS<sup>2</sup> - The Standard for Fully Automatic Rotating Lasers**



#### **Setting Standards for Precision and Reliability**

The rotating lasers in the **PRIMUS<sup>2</sup>** series remain extraordinarily precise whatever the site conditions – in continuous rainfall, severe cold or blazing heat. Whether horizontal, vertical or at a gradient.

Always reliable, whenever and wherever they are used.

The **PRIMUS**<sup>2</sup> casing is protected against jet water and dust in line with IP 66. After use, the **PRIMUS**<sup>2</sup> can even be sprayed down with water to clean it.



## **The Standard for Ruggedness**

Thanks to their innovative shock protection system, the rotating lasers of the **PRIMUS<sup>2</sup>** series can easily withstand a fall from a height of 1 m. The thick lining and rotor protection provide additional safety.



## **Setting Standards for Visibility**

All **PRIMUS**<sup>2</sup> rotating lasers are fitted with high-quality laser diodes with 635 nm wavelength. The customer can choose between high-power laser diodes in laser class 3R or laser diodes in laser class 2 featuring Bright Beam Technology<sup>TM</sup> thus ensuring optimum visibility of the laser beam even under unfavourable light conditions.



#### The Standard for Long Life

High-power rechargeable NiMH batteries with Eneloop<sup>™</sup> technology ensure a long operating life of more than 100 hours, with minimal self-discharging. The intelligent power compartment permits quick changing between battery and rechargeable battery operation.



## **Setting Standards for Easy Operation**

Are you fed up with difficult-to-handle devices?

All **PRIMUS<sup>2</sup>** lasers feature in addition to the standard 5/8" mounting thread the Quick-Fix rapid locking system which allows the laser device to be fixed in just a few seconds to any tripod and just as quickly detached. Just throw the lever for fixing or detaching. That's all!

# Extremely sturdy:

The rotating lasers in the **PRIMUS<sup>2</sup>** series conform to protection class IP 66 for use under extremely adverse working conditions.





















# Nedo PRIMUS<sup>2</sup> H

Ref.-No. laser class 3R Ref.-No laser class 2

PRIMUS<sup>2</sup> H 472 020 472 020-632

Incl. transport case, laser receiver ACCEPTOR<sup>pro</sup>, heavy-duty rod clamp, Quick-Fix, rechargeable batteries and charger

PRIMUS<sup>2</sup> H 472 021 472 021-632

Incl. transport case, Quick-Fix, rechargeable batteries and charger

PRIMUS<sup>2</sup> H 472 022

Incl. transport case, laser receiver ACCEPTOR digital, heavy-duty rod clamp, Quick-Fix, rechargeable batteries and charger

#### Supplied as standard: ACCEPTOR<sup>pro</sup> with Heavy-Duty rod clamp

Heavy-Duty rod clamp made of diecast aluminium. This practically indestructible all-metal holding clip fixes the laser receiver securely and dependably, even under the most rugged operating conditions, to telescopic or flexible staffs.



# Nedo PRIMUS<sup>2</sup> H

The fully automatic horizontal rotating laser

#### **Features:**

- Fully automatic rotating laser for horizontal applications
- Robust, motor-powered levelling
- Automatic level control stops the laser if it receives a heavy jolt. In this way, height errors are avoided.
- High-power laser diode, laser class 3R, for highly visible laser beam and easy work at the close range
- Alternatively available with laser class 2 with Bright Beam Technology™
- Large, clear display showing rotation speed, battery level, etc.
- Rotor protection made of break-proof glass
- Laser receiver ACCEPTOR<sup>pro</sup>
- Extremely easy to use
- Highly accurate even under toughest conditions

#### Ideal for use on every construction site. Perfect for levelling in applications such as:

- Rough and fine grading
- Bricklaying
- Depth control for excavations
- Landscaping
- Casting concrete

# ACCEPTOR<sup>pro</sup> heavy-duty rod clamp, rechargeable batteries and charger, Quick-Fix rapid locking system and transport case Ref.-No. 472 020

Rotating laser PRIMUS<sup>2</sup>H, laser receiver

Scope of delivery:

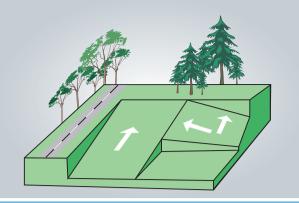


#### Optional accessory "Outdoor package":

- Aluminium tripod, working range 1.08 m to 1.72 m
- Flexi Rod with universal adapter and carrying

# Nedo PRIMUS<sup>2</sup> H

Technical data:	
Levelling accuracy	± 0.5 mm/10 m
Self-levelling range	$\pm~5^{\circ}$ motor-powered, with automatic level control
Working range Ø	approx. 700 m with receiver ACCEPTOR pro
Laser	< 5 mW, laser class 3R, 635 nm or
	< 1mW, laser class 2, 635 nm
Rotating speed	600 rpm
Protection class	IP 66
Power supply	rechargeable batteries NiMH 4.8 V, 8500 mAh
Operation duration	approx. 100 h
Connecting thread	5/8"



**Dual slope function**For horizontal use and for slopes in one or two axes





















# Nedo PRIMUS<sup>2</sup> H2N+ / PRIMUS<sup>2</sup> H2N

Ref.-No. laser class 3R Ref.-No. laser class 2

PRIMUS<sup>2</sup> H2N+ with tilt control 472 034 472 034-632
Incl. multi-function module COMMANDER<sup>2</sup> H2N+ laser receiver incl. radio remote control), heavy-duty rod clamp, Quick-Fix, rechargeable batteries, charger and transport case

PRIMUS<sup>2</sup> H2N+ with tilt control 472 035 472 035-632
Incl. laser receiver ACCEPTOR digital, heavy-duty rod clamp, Quick-Fix, rechargeable batteries, charger and transport case

PRIMUS<sup>2</sup> H2N+ with tilt control 472 033 472 033-632

Incl. Quick-Fix, rechargeable batteries, charger and transport case

Upgrade PRIMUS² H2N+ to 900 rpm399 602399 602PRIMUS² H2N472 030472 030-632Incl. transport case, rechargeable batteries and charger

PRIMUS<sup>2</sup> H2N 472 031 472 031-632

Incl. multi-function module COMMANDER<sup>2</sup> H2N (laser receiver incl. radio remote control), heavy-duty rod clamp, Quick-Fix, rechargeable batteries, charger and transport case

PRIMUS<sup>2</sup> H2N 472 032 472 032-632

Incl. laser receiver ACCEPTOR digital, heavy-duty rod clamp, rechargeable batteries, charger and transport case

Optional accessory: Telescopic sight with laser sighting mechanism Ref.-No. 461 096





# Nedo PRIMUS<sup>2</sup> H2N+

Fully automatic dual slope laser with tilt control and automatic re-levelling when in slope mode

# **Nedo PRIMUS**

Fully automatic dual slope laser

#### Features:

- Fully automatic dual slope laser
- Robust, motor-powered levelling
- Direct grade entry for the x and y axes
- Slope values once input are stored upon switch-off
- **PRIMUS<sup>2</sup> H2N+** with tilt control: the position of the laser plane is continuously monitored in the slope mode and re-levelled if necessary.
- Automatic level control stops the laser if it receives a heavy jolt. In this way, height errors are avoided.
- Large, clear display showing inclination, rotation speed, battery level, etc.
- High-Power laser diode, laser class 3R, for highly visible laser beam and easy work at the close range
- Alternatively available with laser class 2 with Bright Beam Technology™
- Rotor protection made of break-proof glass
- Highly accurate even under toughest conditions

#### Ideal for use on every construction site. Perfect for levelling in applications such as:

- Elevation control
- Rough and fine grading
- Depth control for excavations
- Machine control

- Casting concrete
- Bricklaying
- Setting foundations and footings
- Landscaping

## Nedo PRIMUS<sup>2</sup> H2N+ and H2N

Technical data:	
Levelling accuracy	± 0.5 mm/10 m
Self-levelling range	$\pm~5^{\circ}$ motor-powered, with automatic level control
Accuracy of the slope function	$\pm$ 0.015% PRIMUS <sup>2</sup> H2N+,
	± 0.1% PRIMUS <sup>2</sup> H2N
Working range Ø	approx. 700 m with receiver COMMANDER <sup>2</sup> H2N
Laser	< 5 mW, laser class 3R, 635 nm or
	< 1mW, laser class 2, 635 nm
Rotating speed	600 rpm
Protection class	IP 66
Power supply	rechargeable batteries NiMH 4.8 V, 8500 mAh
Operation duration	approx. 100 h
Connecting thread	5/8"



Scope of delivery:

Rotating laser **PRIMUS<sup>2</sup> H2N**, laser receiver COMMANDER<sup>2</sup> H2N with heavy-duty rod clamp, rechargeable batteries, charger, Quick-Fix rapid locking system and transport case Ref.-No. 472 031



#### Optional accessory "Outdoor package":

- Aluminium tripod, working range 1.08 m to 1.72 m
- Flexi Rod with universal adapter and carrying bag

Ref.-No. 200 350



AutoAlign Video

AutoAlign function
At the push of a button, the laser plane automatically aligns with the laser receiver COMMANDER<sup>2</sup> HVA. Ideal when batter boards are used or on facade construction.

The working range of the AutoAlign function is 50 metres.





























# Nedo PRIMUS<sup>2</sup> HVA

Ref.-No. laser class 3R Ref.-No. laser class 2

PRIMUS<sup>2</sup> HVA 472 050 472 050-632 Incl. multi-function module COMMANDER<sup>2</sup>HVA (laser receiver incl. radio remote control), heavy-duty rod clamp, magnetic target board, Quick-Fix, rechargeable batteries, charger and transport case

The AutoAlign function eliminates the need for tiresome manual alignment of the laser plane on the laser receiver, saving considerable time when batter boards are used and in facade construction. Batter board and facade construction adapters are available as optional accessories for the **PRIMUS**<sup>2</sup> and the **COMMANDER**<sup>2</sup> laser receiver.





#### Scope of delivery:

Rotating laser **PRIMUS<sup>2</sup> HVA**, laser receiver COMMANDER<sup>2</sup> HVA with heavy-duty rod clamp, magnetic target board, rechargeable batteries, charger, Quick-Fix rapid locking system and transport case

Ref.-No. 472 050



Supplied as standard with **COMMANDER<sup>2</sup> HVA** laser receiver with integrated remote control and heavy-duty rod clamp



#### Optional accessory "Accessory package 1":

- Elevating tripod, working range 0.80 m to 2.76 m
- Flexi Rod with universal adapter and carrying bag

#### Ref.-No. 210 350

#### Optional accessory "Accessory package 2":

- Elevating tripod, working range 0.78 m to 2.03 m
- Flexi Rod with universal adapter and carrying bag

# Nedo PRIMUS<sup>2</sup> HVA

The fully automatic horizontal/vertical rotating laser with AutoAlign function

#### Features:

- Fully automatic rotating laser for horizontal and vertical applications
- AutoAlign function: automatic alignment of the laser beam to the zero mark of the laser receiver
- Robust motor-powered levelling
- Large, clear display showing rotation speed, battery level, etc.
- Automatic level control stops the laser if it receives a heavy jolt. In this way, height errors are avoided.
- Manual setting of slopes in 2 axes
- Scan function and dot mode
- High-power laser diode, laser class 3R, for highly visible laser beam and easy work at the close range
- Alternatively available with laser class 2 with Bright Beam Technology™
- Upward plumb beam
- Rotor protection made of break-proof glass
- Highly accurate even under toughest conditions
- Radio remote control for a convenient handling

# Ideal for interior applications. Perfect for levelling and aligning jobs, especially in the following areas:

- Depth control for excavations
- Concrete casting
- Concrete formwork
- Use of batter boards
- Bricklaying

- Laying screed
- Drywall installation
- Ceiling construction
- Facade construction

## Nedo PRIMUS<sup>2</sup> HVA

Technical data:	
Levelling accuracy	± 0.5 mm/10 m
Self-levelling range	$\pm~5^{\circ}$ motor-powered, with automatic level control
Setting of slopes in two axes	manual
Working range Ø	approx. 500 m with receiver COMMANDER <sup>2</sup> HVA
Laser	< 5 mW, laser class 3R, 635 nm or
	< 1mW, laser class 2, 635 nm
Working range radio remote control	approx. 150 m
Working range AutoAlign	approx. 50 m
Rotating speed	10, 60, 300 and 600 rpm
Scanning angle	0°, 5°, 10° and 15°
Protection class	IP 66
Power supply	rechargeable batteries NiMH 4.8 V, 8500 mAh
Operation duration	approx. 100 h
Connecting thread	5/8"

Ref.-No. 210 351



AutoAlign Video

#### **AutoAlign function**

At the push of a button, the laser plane automatically aligns with the laser receiver **COMMANDER<sup>2</sup> HVA2N**. Ideal when batter boards are used or on facade construction.

The working range of the AutoAlign function is 50 metres.





























# Nedo PRIMUS<sup>2</sup> HVA2N

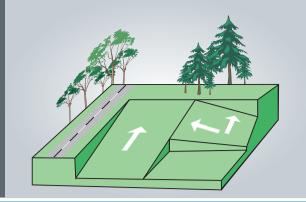
Ref.-No. laser class 3R Ref.-No. laser class 2

PRIMUS<sup>2</sup> HVA2N 472 061 472 061-632 Incl. magnetic target board, multi-function module COMMANDER<sup>2</sup> HVA2N (laser receiver incl. radio remote control) and heavy-duty rod clamp, Quick-Fix, rechargeable batteries, charger and transport case

#### **Dual slope function**

For horizontal use and for slopes in one or two axes.

Tilt monitoring and automatic re-levelling when in slope mode.



# Nedo PRIMUS<sup>2</sup> HVA2N

The fully automatic horizontal/vertical dual slope laser with AutoAlign function

#### **Features:**

- Fully automatic rotating laser for horizontal and vertical applications
- Direct grade entry for the x and y axis
- Tilt control: the position of the laser is continuously monitored in the tilt mode
- AutoAlign function: automatic alignment of the laser beam to the zero mark of the laser receiver
- Robust motor-powered levelling
- Large, clear display showing inclination, rotation speed, battery level, etc.
- Automatic level control stops the laser if it receives a heavy jolt. In this way, height errors are avoided.
- High-power laser diode, laser class 3R, for highly visible laser beam and easy work at the close range
- Alternatively available with laser class 2 with Bright Beam Technology™
- Scan function and dot mode
- Upward plumb beam
- Rotor protection made of break-proof glass
- Highly accurate even under toughest conditions
- Radio remote control for a convenient handling

#### Ideal for use on every construction site. Perfect for levelling in applications such as:

- Depth control for excavations
- Concrete casting
- Setting foundations and footings
- Concrete casting
- Use of batter boards
- Bricklaying

- Landscaping
- Laying screed
- Facade construction
- Setting reference markers
- Rough and fine grading
- Ceiling construction

## Nedo PRIMUS<sup>2</sup> HVA2N

Technical data:	
Levelling accuracy	± 0.5 mm/10 m
Self-levelling range	$\pm~5^{\circ}$ motor-powered, with automatic level control
Accuracy of the slope function	± 0.015%
Setting of slopes in two axes	± 10%, direct entry
Working range Ø	approx. 700 m with receiver COMMANDER <sup>2</sup> HVA2N
Laser	< 5 mW, laser class 3R, 635 nm or
	< 1mW, laser class 2, 635 nm
Working range radio remote control	approx. 150 m
Working range AutoAlign	approx. 50 m
Rotating speed	10, 60, 300 and 600 rpm
Scanning angle	0°, 5°, 10° und 15°
Protection class	IP 66
Power supply	rechargeable batteries NiMH 4.8 V, 8500 mAh
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Operation duration	approx. 100 h
,	approx. 100 h 5/8"



Scope of delivery:

Ref.-No. 472 061

system and transport case

Rotating laser PRIMUS<sup>2</sup> HVA2N, laser receiver

**COMMANDER<sup>2</sup> HVA2N** with heavy-duty rod clamp, magnetic target board, rechargeable

batteries, charger, Quick-Fix rapid locking

#### Optional accessory "Accessory package 1":

- Elevating tripod, working range 0.80 m to 2.76 m
- Flexi Rod with universal adapter and carrying bag

#### Ref.-No. 210 350

#### Optional accessory "Accessory package 2":

- Elevating tripod, working range 0.78 m to 2.03 m
- Flexi Rod with universal adapter and carrying bag

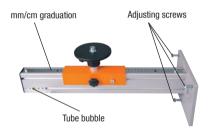
Ref.-No. 210 351





# **Nedo Facade Construction Adapters**

The Facade Construction Adapters are fastened to the wall and horizontally aligned with the aid of integrated bubbles. Thanks to the mm graduations provided on the traverses, rotating lasers and laser receivers can be conveniently positioned at the required distance from the wall. The new Facade Construction Adapters have been optimally matched to the fully automatic PRIMUS<sup>2</sup> HVA rotating laser with AutoAlign function and to the COMMANDER<sup>2</sup> laser receiver, and provide in combination with these instruments a professional and complete system for facade construction.



# **Facade Construction Adapter for PRIMUS<sup>2</sup> Rotating Lasers**

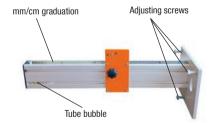
Sturdy aluminium facade construction adapter. Sliding runner with tripod head and 5/8" connecting thread. Adjusting range approx. 450 mm.

Three adjusting screws allow exact alignment of the facade construction

adapter.







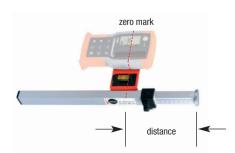
# Facade Construction Adapter for COMMANDER<sup>2</sup> Laser Receivers

Sturdy aluminium facade construction adapter. Sliding runner for accommodating the COMMANDER<sup>2</sup> laser receiver. Adjusting range approx. 490 mm.

Three adjusting screws allow exact alignment of the facade construction adapter.

Ref.-No. 461 056





#### **Mini-Flexi Rod for Facade Construction**

The mini-flexi rod allows distances in facade construction to be measured quickly and easily. Measurement range: 65 mm to 280 mm

Ref.-No. 461 048







# **Nedo Batter Board Holder**

On modern construction sites the batter board is increasingly being supplanted by a rotating laser. The laser is, in vertical operation, placed on a batter board holder fastened to the batter board by a clamping screw. The batter board holder is provided with a turntable allowing rough alignment of the rotating laser.

The laser receiver with the receiver holder is clamped on the opposite side of the batter board. Thanks to the AutoAlign function, the laser plane automatically aligns with the laser receiver in the case of the PRIMUS<sup>2</sup> HVA and PRIMUS<sup>2</sup> HVA2N models. Furthermore, the laser plane is automatically monitored and if necessary corrected by the AutoAlign function.



## **Batter Board Holder for Rotating Lasers PRIMUS<sup>2</sup>**

Sturdy aluminium batter board holder with four clamping screws. Suitable for use with rotating lasers from the PRIMUS<sup>2</sup> series.

Ref.-No. 461 051



## **Batter Board Holder for Laser Receiver COMMANDER<sup>2</sup>**

Sturdy aluminium batter board holder with one clamping screw. Suitable for use with COMMANDER<sup>2</sup> laser receiver.

Ref.-No. 461 055



# **Nedo Accessories PRIMUS<sup>2</sup>**



## **Telescopic Sight**

The use of dual-axis slope lasers requires an extremely exact alignment of the laser axes. With the help of the **PRIMUS**<sup>2</sup> telescopic sight with integrated target laser the laser axis can be precisely aligned to the target even if it is a great distance away. The telescopic sight can easily be fixed to the **PRIMUS**<sup>2</sup> without any tools. Suitable for use with the dual slope lasers **PRIMUS**<sup>2</sup> H2N. H2N+ and HVA2N.

Ref.-No. 461 096



## PRIMUS<sup>2</sup> Battery Charger Add-On Kit

Spare battery and charger, can be used for all  $PRIMUS^2$  models.

Ref.-No. 461 098

# **PRIMUS<sup>2</sup> Battery Box**

Battery box for 4 x 1.5 V mono-cells, can be used for all PRIMUS<sup>2</sup> models.

Ref.-No. 461 097



# **Outdoor Package for PRIMUS<sup>2</sup> Series**

- Aluminium tripod, working range 1.08 to 1.72 m Ref.-No. 200 200
- Flexi Rod with universal adapter and carrying bag

Ref.-No. 200 350





- Elevating tripod, working range 0.80 m to 2.76 m Ref.-No. 210 621
- Flexi Rod with universal adapter and carrying bag

Ref.-No. 210 350



# **Accessory Package 2 for PRIMUS<sup>2</sup> Series**

- Elevating tripod, working range 0.78 m to 2.03 m Ref.-No. 210 616
- Flexi Rod with universal adapter and carrying bag

Ref.-No. 210 351



# **PRIMUS<sup>2</sup> Tripod**

Sturdy aluminium tripod with integrated Quick-Fix locking system.

#### Technical data:

- Min. effective height: approx. 1.07 m
- Max. effective height: approx. 1.71 m
- Retracted length: approx. 1.15 m
- Weight: approx. 5.00 kg
- Tripod head Quick-Fix, ø 140 mm









# **Nedo Accessories PRIMUS<sup>2</sup>**

## **Nedo Tilt Adapter**

With the tilt adapter, inclines of up to 90° can be set manually. Quick adjustment with 6 stages and additional fine adjustment. Scale with % and ° units. Ideal for creating slopes or refurbishing roofs. Incl. circular level, built-in sighting device, 5/8" connecting thread and Quick-Fix system.

#### Features:

- Accuracy: ± 1°
- Coarse and fine adjustment for quick height settings
- Integrated Quick-Fix system for all lasers in the PRIMUS2 series
- 5/8" thread for all rotating lasers
- Scale with degree and percent graduations
- Made of high-quality cast aluminium

Ref.-No. 461 047

## **Nedo Laser Receiver ACCEPTOR** and COMMANDER<sup>2</sup>







#### Features ACCEPTOR<sup>pro</sup>

- Extremely robust laser receiver
- Large detector field with 70 mm length
- Large LC display on front and back
- et water-proof and dust-proof to IP 66
- Bright LED display
- Adjustable volume
- Display of remaining battery power
- Rod clamp for laser receiver

Ref.-No. 430 372

#### Technical data ACCEPTOR<sup>pro</sup>

- Accuracy: switchable, ± 0.5 mm, ± 1.0 mm, ± 2.0 mm, ± 4.0 mm
- Length of detector field: 70 mm
- Working range: ø 700 m (depends on laser)
- Protection class IP 66
- Operating temperature: -20°C to +50°C
- Power supply: 3 x 1.5 V batteries (AA) or rechargeable batteries (NiMH)
- Operation duration: approx. 100 h

#### Features COMMANDER<sup>2</sup>

- Laser receiver with integrated radio remote control
- Large LC display on front and back
- Plain-language LCD display showing all the data of the PRIMUS<sup>2</sup> displays
- Jet water-proof and dust-proof to IP 66
- Bright LED display
- Adjustable volume
- Large detector field with 70 mm length
- Display of remaining battery power
- Extremely robust
- Rod clamp for laser receiver

Ref.-No. 430 371 COMMANDER<sup>2</sup> H2N Ref.-No. 430 374 COMMANDER<sup>2</sup> H2N+

#### Technical data COMMANDER<sup>2</sup>

- Accuracy: switchable, ± 0.5 mm,
   ± 1.0 mm, ± 2.0 mm, ± 4.0 mm
- Length of detector field: 70 mm
- Working range: ø 700 m (depends on laser)
- Protection class IP 66
- Operating temperature: -20°C to +50°C
- Power supply: 3 x 1.5 V batteries (AA) or rechargeable batteries (NiMH)
- Operation duration: approx. 100 h







Precise surveying and measuring

Nedo GmbH & Co. KG

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