



# The family of self-levelling rotating lasers

Primus-H

Primus-HV

Primus-HVA



®

Precise surveying  
and measuring

Made in  
Germany

# Self-levelling rotating lasers: The Nedo *PRIMUS* -Family

The variety of tasks on the construction site require a diversity of characteristics of rotating lasers. The Primus product range offers customised solutions for levelling and alignment tasks in civil engineering and in interior outfitting.

Nedo Primus stands for a robust design, a reliable technology and the proven Nedo quality you can rely on.

## All models at a glance

	Horizontal	Vertical	AutoAlign
Primus-H	✓		
Primus-HV	✓	✓	
Primus-HVA	✓	✓	✓



Nedo Primus-H, Primus-HV and Primus-HVA are self-levelling rotating lasers. Electronic sensors control the position of the laser beam and horizontally/vertically align the laser beam by means of a servo motor. There is no need for a time-consuming manual alignment of the laser. Simply set up the rotating laser and turn it on. All Primus models align themselves automatically within a range of  $\pm 5^\circ$ . Little vibrations of the instrument are levelled out by the intelligent control electronics. The rotating laser switches itself off when more severe vibrations occur. This avoids errors in height.

Fast transition to the use in the vertical mode: The alignment and the marking of right angles are child's play.

The aluminium housing securely protects the electrical sensors and the mechanical components against splash water and dust (IP 54).

## Intuitive operation



**On/off switch;** starts the self-levelling procedure.



Activates the **manual operation** and **switches off the self-levelling procedure**. The laser rotates independently from the inclination (no adjustment for vibrations).



**Rotating mode.** Press to switch to the next standard speed: 200, 350 and 500 rpm. Use arrow keys  $\leftarrow \rightarrow$  for an infinite adjustment of the rotating speed.



**Scan mode.** Press to switch to the next scan angle: approx.  $0^\circ$ , approx.  $5^\circ$ , approx.  $10^\circ$  and approx.  $15^\circ$ .



**Buttons for infinite adjustment** of the rotating speed or for adjustment of the scanning position (depends on mode).



# Smart ideas to ease your job



Multi function module COMMANDER

**Standard equipment: radio remote control**

All Primus rotating lasers are supplied with a radio remote control as a standard. The control via radio allows for a greater distance and an easier handling compared to regular infrared remote controls.

The multi function module COMMANDER combines radio remote control and laser receiver. Accessories are therefore always ready to hand.



COMMANDER/COMMANDER-HVA can be clicked onto the laser during transport or when the radio remote control/laser receiver is not needed. The multi function modules are equipped with magnets. Therefore, the laser receiver can be attached very easily to metallic profiles in ceiling constructions.

Ready to hand: the multi function module COMMANDER can be clicked onto the laser



All Primus models are supplied with a variety of accessories – depending on the field of application of each laser.

The multi function module COMMANDER OUTDOOR and a bracket for the laser receiver are delivered with each Primus-H. Primus-HV and Primus-HVA are supplied with the multi function module COMMANDER/COMMANDER-HVA and the wall mount “easy”.

Standard equipment: extensive accessory pack

# Nedo Primus-H – the robust horizontal laser for the construction site

for horizontal applications



Nedo Primus-H is the ideal laser for all levelling tasks in civil engineering: casting concrete surfaces, masonry works or levelling.

The rotating laser levels itself horizontally at the push of a button. The highly visible laser beam facilitates tasks in a close-up range. For greater distances, the laser beam can be detected easily with the aid of the laser receiver.

The splash-proof aluminium housing and the sturdy rotor protection makes Nedo Primus-H an extremely robust tool. Nedo Primus-H withstands the extreme demands on the construction site without difficulty.

The delivery includes the splash-proof COMMANDER OUTDOOR with bracket. Nedo Primus-H is supplied with batteries or rechargeable batteries/power supply unit.

## Characteristics Primus-H:

- Self-levelling rotating laser for horizontal applications
- Highly visible laser beams
- Extremely robust laser with aluminium housing
- Completely splash-proof (IP 54)
- Easy to handle

- Plumb beam
- Scan function
- Adjustable rotating speed
- Multi function module COMMANDER OUTDOOR (laser receiver with integrated radio remote control)
- Bracket for COMMANDER OUTDOOR
- Supplied with batteries or rechargeable batteries/power supply unit

## Technical data laser:

Self-levelling range	± 5° (horizontally)
Laser type	Visible, wave length 635 nm, laser class 2, max. output 1 mW
Range Ø	200 m
Accuracy	± 0.15 mm/m
Rotating speed	3 determined speeds: 200, 350, 500 rpm continuous fine adjustment
Scanning angle	0° (point mode) , approx. 5°,10°,15°
Housing	Robust aluminium, powder-coated
Dimensions (HxWxD)	165 mm x 149 mm x 126 mm
Weight	1.6 kg
Fixings	5/8" thread BSW
Protection class	IP 54
Operation duration	Batteries: approx. 100 h Rechargeable batteries: approx. 40 h
Power supply	2 x 1.5 V (LR20/Mono/D)

## Technical data laser receiver/radio remote control:

Accuracy	± 2 mm
Range (receiver)	up to approx. 100 m
Range (radio remote control)	up to approx. 50 m
Power supply	2 x 1.5 V (LR6/Mignon/AA)
Operation duration	approx. 70 h
Automatic switch-off	after approx. 3 min
Length of detector field	68 mm
Fixings	1/4" thread BSW
Protection class	IP 54

## Delivery includes:

Ref.-No. 470 005

### Primus-H (operated with batteries)

Supplied with multi function module COMMANDER OUTDOOR (laser receiver with integrated radio remote control), bracket, batteries and case.

Ref.-No. 470 006

### Primus-H (operated with rechargeable batteries)

Supplied with multi function module COMMANDER OUTDOOR (laser receiver with integrated radio remote control), bracket, rechargeable batteries, power supply unit and case.



# Nedo Primus-HV – the universal rotating laser for the construction site

for horizontal and vertical applications



For horizontal or vertical applications, in interior outfitting or on the construction site – Nedo Primus-HV is the all-purpose rotating laser for levelling and aligning. Ideal for ceiling constructors, floor layers, bricklayers and tilers.

The rotating laser levels itself horizontally and vertically at the push of a button. Nedo Primus-HV is an all-rounder and stands out thanks to its functional features like the scan function, the plumb beam and the intuitive handling.

## Characteristics Primus-HV:

- Self-levelling rotating laser for horizontal and vertical applications
- Highly visible laser beams
- Extremely robust laser with aluminium housing
- Completely splash-proof (IP 54)
- Easy to handle
- Plumb beam

- Scan function
- Adjustable rotating speed
- Multi function module COMMANDER (laser receiver with integrated radio remote control)
- Wall mount “easy”
- Supplied with batteries or rechargeable batteries/power supply unit

## Technical data laser:

Self-levelling range	± 5° (horizontally and vertically)
Laser type	Visible, wave length 635 nm, laser class 2, max. output 1 mW
Range Ø	200 m
Accuracy	± 0.15 mm/m
Rotating speed	3 determined speeds: 200, 350, 500 rpm continuous fine adjustment
Scanning angle	0° (point mode) , approx. 5°, 10°, 15°
Housing	Robust aluminium, powder-coated
Dimensions (HxWxD)	165 mm x 149 mm x 126 mm
Weight	1.6 kg
Fixings	5/8" thread BSW
Protection class	IP 54
Operation duration	Batteries: approx. 100 h Rechargeable batteries: approx. 40 h
Power supply	2 x 1.5 V (LR20/Mono/D)

## Technical data laser receiver/radio remote control:

Accuracy	± 2 mm
Range (receiver)	up to approx. 100 m
Range (radio remote control)	up to approx. 50 m
Power supply	2 x 1.5 V (LR6/Mignon/AA)
Operation duration	approx. 70 h
Automatic switch-off	after approx. 3 min
Length of detector field	68 mm
Fixings	1/4" thread BSW
Protection class	IP 54

## Delivery includes:

Ref.-No. 470 010

### Primus-HV (operated with batteries)

Supplied with multi function module COMMANDER (laser receiver with integrated radio remote control), wall mount “easy”, batteries and case.

Ref.-No. 470 011

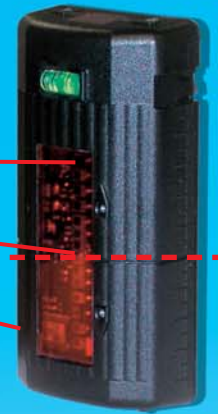
### Primus-HV (operated with rechargeable batteries)

Supplied with multi function module COMMANDER (laser receiver with integrated radio remote control), wall mount “easy”, rechargeable batteries, power supply unit and case.



# Nedo Primus-HVA

for horizontal and vertical applications



## Nedo Primus-HVA

Self-levelling rotating laser with AutoAlign function for horizontal and vertical applications in interior outfitting or outdoors.

Primus-HVA features a plumb beam and a scan function as a standard. It is the ideal laser for the construction site thanks to its robust, dust and splash water protected aluminium housing. The inclination/position of the laser level can be changed or adjusted to a point with the aid of the AutoAlign function.

### Characteristics:

- Self-levelling rotating laser for horizontal and vertical applications
- AutoAlign-function
- Highly visible laser beams
- Extremely robust laser with aluminium housing
- Completely splash-proof (IP 54)
- Plumb beam
- Scan function
- Adjustable rotating speed
- Multi function module COMMANDER-HVA (laser receiver with integrated radio remote control)
- Wall mount "easy"
- Supplied with batteries or rechargeable batteries/power supply unit

### Technical data laser:

Self-levelling range	± 5° (horizontally and vertically)
Laser type	Visible, wave length 635 nm, laser class 2, max. output 1 mW
Range ø	200 m
Accuracy	± 0.15 mm/m
Rotating speed	3 determined speeds: 200, 350, 500 rpm continuous fine adjustment
Scanning angle	0° (point mode) , approx. 5°, 10°, 15°
Working range of AutoAlign	2 m ... 20 m
Housing	Robust aluminium, powder-coated
Dimensions (HxWxD)	165 mm x 149 mm x 126 mm
Fixings	5/8" thread BSW
Protection class	IP 54
Operation duration	Batteries: approx. 100 h Rechargeable batteries: approx. 40 h
Power supply	2 x 1.5 V (LR20/Mono/D)

### Technical data laser receiver/radio remote control:

Accuracy	± 2 mm
Range (receiver)	up to approx. 100 m
Range (radio remote control)	up to approx. 50 m
Power supply	2 x 1.5 V (LR6/Mignon/AA)
Operation duration	approx. 70 h
Automatic switch-off	after approx. 3 min
Length of detector field	68 mm
Fixings	1/4" thread BSW
Protection class	IP 54

### Delivery includes:

Ref.-No. 470 020

#### Primus-HVA (operated with batteries)

Supplied with multi function module COMMANDER-HVA (laser receiver with integrated radio remote control), wall mount "easy", batteries and case.

Ref.-No. 470 021

#### Primus-HVA operated with rechargeable batteries)

Supplied with multi function module COMMANDER-HVA (laser receiver with integrated radio remote control), wall mount "easy", rechargeable batteries, power supply unit and case.

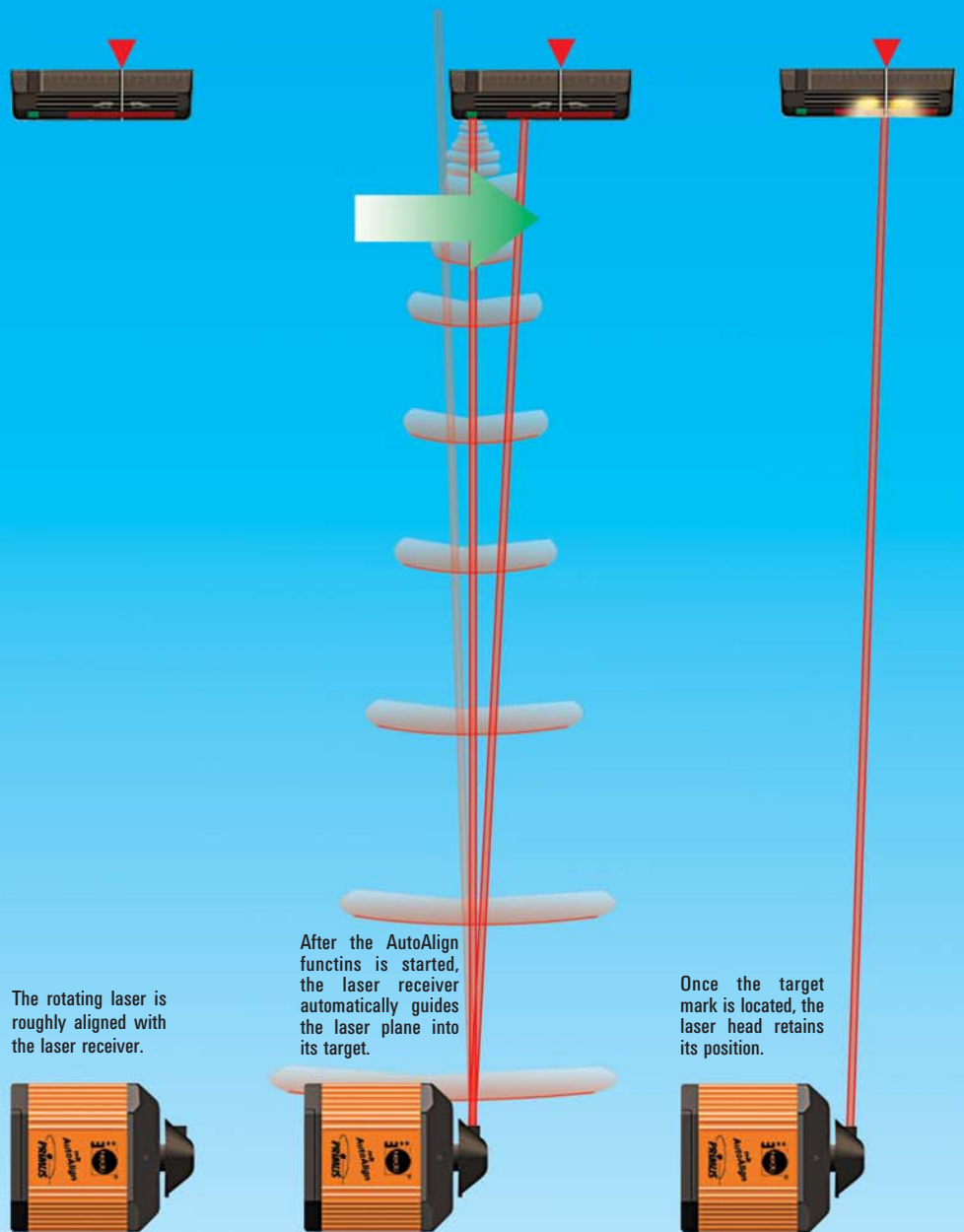
# AutoAlign-function – Time-saving in many applications

Set the laser receiver with its zero mark on a point through which the laser plane must pass. The laser receiver controls the Primus-HVA with the aid of the built-in radio module: such the rotating laser beam automatically aligns itself on this zero mark and in so doing guides the laser plane into its target.

The AutoAlign function is available for both horizontal and vertical operation. The result is a variety of possible applications:

Working with batter boards is child's play: the laser beam of the Nedo Primus-HVA locates the laser receiver on the opposite side of the batter boards and keeps the laser beam on the zero mark at all times. The time-consuming manual alignment of the laser beam on the receiver opposite can be dispensed with.

Alignment while laying tiles is also no problem, and the suspension of inclined ceilings is rapid and precise.



**AutoAlign**  
unbeatable in batter board  
applications



# Primus Accessories

## Wall Mount-S Ref.-No. 461 020

The adjustable Wall Mount-S is either suspended from the ceiling rails or attached to the wall using two screws.

The integrated sliding unit with fine adjustment allows the laser to be set to the desired height.

Adjusting range: 150 mm  
Weight (incl. fastening screw): 1400 g



## Wall Mount "easy" Ref.-No. 461 030

The wall mount "easy" is attached to a wall using two screws. It can be adjusted within the range of the integral slots.

The wall mount "easy" is included in the Primus-HV/Primus-HVA standard equipment.

Adjusting range: 150 mm  
Weight (incl. fastening screw): 400 g



## Batter Board Holder for Primus Ref.-No. 461 040

Clamping range: max. thickness of board  
60 mm

Weight: 900 g



## Batter Board Holder for Laser Receiver Ref.-No. 461 050

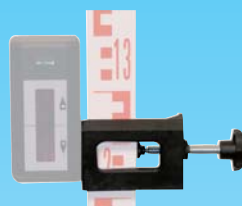
Clamping range: max. thickness of board  
60 mm

Weight: 330 g



## Bracket for Laser Receiver Ref.-No. 461 076

Bracket to attach the Primus laser receiver to any levelling staff.



## Flexi Rod with Adapter Ref.-No. 360 941

Levelling is child's play when the flexi rod with adapter is used.

Min. length: 131 cm

Max. length: 242 cm



## Multi function module COMMANDER OUTDOOR

Laser receiver with integrated radio remote control for Primus lasers. Designed for the use under toughest weather conditions. Very robust and absolutely weatherproof (protection class IP 54). Primus-H is supplied with the multi function module COMMANDER OUTDOOR as a standard.

### Technical data radio remote control/laser receiver:

Accuracy	± 2 mm
Range of receiver	up to approx. 100 m
Power supply	2 x 1,5 V batteries (AA)
Operation duration	approx. 70 h
Automatic switch-off	after approx. 3 min
Length of detector field	65 mm
Fixings	1/4" thread BSW
Protection class	IP 54

### Order information:

Ref.-No. for rotating laser  
430 360 Primus-H/Primus-HV  
430 365 Primus-HVA



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and measuring

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