

# ABOVE AND BELOW GROUND CONSTRUCTION

Rotary lasers are used in above and below ground construction for the most diverse types of survey work. Their primary purposes involve exact levelling at great distance and for establishing alignments and slopes in all visibility conditions. The robust Laserliner rotary lasers are designed for rough construction site activity, even in extreme situations.

## Powerful technology



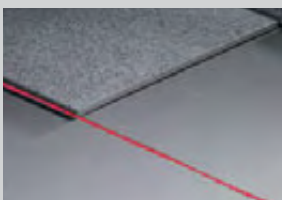
**SENSOR**  
AUTOMATIC

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**  
*Tilt*

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.



**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.



IP 66 IP 67

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



**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.



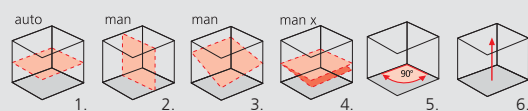
**SHUTTER**

Various segments of the laser output can be shut off separately in order to eliminate disturbing reflections and interference when several rotary lasers are used simultaneously on the construction site.



**Laser reception range red**

SensoLite 410	up to 400 m
SensoMaster 400	up to 400 m



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. Plumb function

**auto:** Automatic alignment

**man:** Manual alignment

Above and below ground construction



Overview



	Quadrum OneTouch	Centurium	DuraMax XPro	DualAxis
Horizontal	auto	auto	auto	auto
Vertical	-	auto	-	-
Accuracy / 10 m	0,75 mm	0,5 mm	0,5 mm	0,5 mm
Reference laser beam	-	●	-	-
Plumb laser	-	-	-	-
Levelling range	5°	5°	5°	5°
Levelling principle	Sensor-Automatic	Sensor-Automatic	Sensor-Automatic	Sensor-Automatic
AntiDriftSystem (Tilt)	●	●	●	●
Vertical fine adjustment	-	●	-	-
AntiShake	-	-	●	●
Slope	DualSlope	DualSlope	Single-/DualSlope	Single-/DualGrade
Remote control	●	●	●	●
Receiver mode	●	●	●	●

● = available

Rotary lasers for professional use



Laserliner instruments are available in sturdy carrying cases.  
 HARD: plastic carry case  
 ALU: case with reinforced aluminium corners



**Inclusive:** Centurium 410 S, SensoLite 410, universal mount, remote control, high-performance battery, battery holder, charger, carrying case, batteries



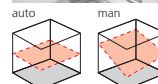
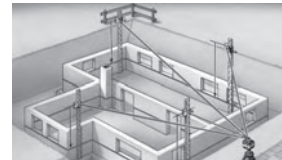
Battery system recharge with original accessories

Above and below ground construction



Quadrum OneTouch 410 S

NEW



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

- Simple one-button operation
- 5° self-levelling range, accuracy 0.75 mm / 10 m
- Laser modes: spot, scan, rotary and hand receiver mode
- All functions can be controlled remotely.
- 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, charger, carrying case, batteries

ORDER NO.	EAN-CODE	PU
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**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.

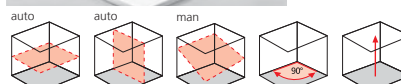
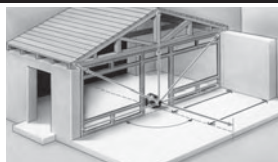


Above and below ground construction



**Centurium 410 S**

NEW



- High precision rotary laser for levelling over great distances – horizontal and vertical**
- 5° self-levelling range, accuracy 0.5 mm / 10 m
  - Laser modes: spot, scan, rotary and hand receiver mode
  - All functions of the rotary laser can be controlled up to a distance up to 40 m with the remote control Control C40.
  - The 4 IR receiving diodes allow this instrument to be remotely operated from all sides
  - Laser receiver range up to 400 m radius

**Inclusive:** Centurium 410 S, Sensolite 410, universal mount, remote control, high-performance battery, battery holder, charger, carrying case, batteries

ORDER NO.	EAN-CODE	PU
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Available in April 2011.



Extremely stable metal head



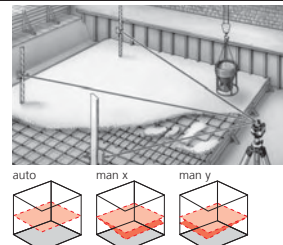
Vertical operating position



Above and below ground construction



DuraMax XPro



**High precision rotary laser with shutter function – horizontal levelling over great distances**

- 5° self-levelling range, accuracy 0.5 mm / 10 m
- Shutter function: The working range of the laser beam can be limited to 4 different segments.
- Laser modes: spot, scan, rotary and hand receiver mode
- Single-slope function for manual tilt of an axis in automatic operation, even if ADS tilt is active.
- All functions can be controlled remotely using the Commander 50.

**Accessories included:**

universal mount, Commander 50, rechargeable batteries, charger, carrying case, batteries



**Shutter function**

Various segments of the laser output can be shut off separately in order to eliminate disturbing reflections and interference when several rotary lasers are used simultaneously on the construction site.

**Set DuraMax XPro 410 S**

up to 400 mm with SensoLite 410 laser receiver

ORDER NO.	EAN-CODE	PU
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**Set DuraMax XPro 400 S**

up to 400 m with SensoMaster 400 laser receiver  
 - 127 mm long laser receiver unit  
 - Highly accurate distance reading for laser level

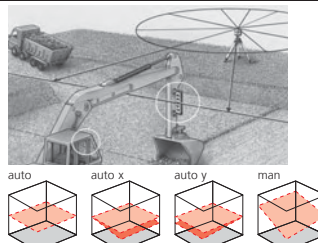
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Above and below ground construction



**DualAxis Laser**



**IQ**

**2-axis grade laser of extremely durable design for civil and construction engineering**

- 5° self-levelling range, accuracy 0.5 mm / 10 m
- Shutter function: The working range of the laser beam can be limited to 4 different segments.
- Deviation from the horizontal plane can set digitally in X and Y axes.
- Laser modes: rotary and hand receiver mode
- High maximum speed of 1100 rpm
- The telescopic sight supplied with the device makes alignment easy
- Large illuminated LCD
- All functions can be controlled remotely using the Commander DAL.

**Accessories included:**  
universal mount, Commander DAL, telescopic sight, rechargeable batteries, charger, carrying case, batteries



**Telescopic sight for adjusting the DualAxis-Laser**  
The telescopic sight ensures precision adjustment of the DualAxis-Laser X and Y axes. Simple 90° rotation facilitated by magnetic fastening.

**Set DuralAxis 410 S**  
up to 400 mm with SensoLite 410 laser receiver

ORDER NO.	EAN-CODE	PU
043.00.09A	4 021563 677788	1



**Set DualAxis Laser 400 S**  
up to 400 m with SensoMaster 400 laser receiver  
- 127 mm long laser receiver unit  
- Highly accurate distance reading for laser level

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