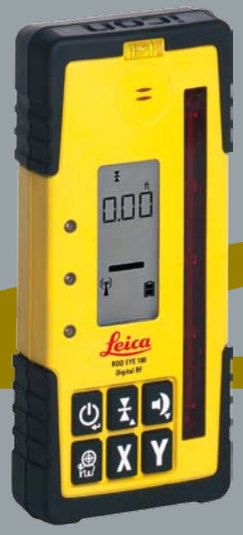
Leica Rugby
Accessories

The Leica Rod Eye family of receivers and accessories offer solutions for any construction application. The Rod Master feature in each Rod Eye indicates if the battery of the Rugby laser is low. They are engineered to the highest standard and work seamlessly with the Leica Rugby laser portfolio.

Leica Rod Eye 180 Digital RF



- Top of the range receiver with integrated radio remote functionality, digital readout, half millimetre accuracy and strobe rejection
- **Intelligence inside with Laserman, enabling the Smart Targeting functionality:**
  - Automatically align your laser plane at the touch of a button – horizontal, vertical and dual axis
  - Monitor and correct the laser plane in real-time using Smart Lock functionality

Leica Rod Eye 160 Digital

- Professional receiver with digital readout, half millimetre accuracy and strobe rejection
- Capture digital readout for convenient height readings

Leica Rod Eye 140 Classic

- High application performance with Leica Rod Eye 140 – with the built-in 5 inch detection window you can easily detect the beam over the entire distance

Plug and play – perfect application set-up with clever accessories

A220 Batter Board clamp and adapter:
provides a simple, string free set-up on batter boards. When not in use, the 90° receiver adapter attaches to the main clamp for easy storage.

A240 Manual Slope adapter:
up to 90° slope possibility in one axis using the Leica Rugby in manual mode.

A280 Facade adapter:
enables an easy and practical set-up for all facade installations. The kit consists of two adapter brackets and a batter board clamp with the 90° receiver adapter.

Technical Specifications




Technical data	Rugby 810	Rugby 820	Rugby 830	Rugby 840
H.I. (Height of Instrument or elevation alert)	Preventing errors due to sudden shifting or movement of the instrument or tripod			
Functionality	Self-leveling horizontal, single manual slope (with slope adapter)	Self-leveling horizontal & manual slope in dual axis	Self-leveling horizontal & manual slope in dual axis	Self-leveling horizontal, vertical, 90° and manual slope in dual axis
Smart Targeting	–	Smart Targeting	–	Smart Targeting
Smart Lock	–		–	
Maximum Temperature Stability	–	–	+ –	–
Operating range (diameter)	800 m (2.600 ft)	800 m (2.600 ft)	1.350 m (4.430 ft)	700 m (2.300 ft)
Self-leveling accuracy*	± 1.5 mm at 30 m (± 1/16" at 100 ft)			
Self-leveling range	± 6°			
Rotation speed	10 rps	10 rps	10 rps	0, 2, 5, 10 rps
Scanning modes	–	–	–	10°, 45°, 90°
Laser diode type / class	635 nm (visible) / Class 2			
Dimensions (H × W × D)	235 × 238 × 190 mm (9.2 × 9.4 × 7.5 in)			
Weight with batteries	3.0 kg (6.6 lbs)			
Batteries (alkaline/rechargeable)	Four D-cells / Li-Ion pack			
Battery life** (alkaline/rechargeable)	60 hours / 45 hours @ 20°C			
Extended operating temperature	–20° to +50°C (–40° to +122°F)	–20° to +50°C (–40° to +122°F)	–20° to +60°C (–40° to +142°F)	–20° to +50°C (–40° to +122°F)
Storage temperature	–40° to +70°C (–40° to +158°F)			
Environmental standard	IP 68 – water proof to 1m depth			
RC400 remote control				
Operating range (diameter)	–	–	–	200 m (650 ft)

Laser Receivers



Technical data	Rod Eye 140 Classic	Rod Eye 160 Digital	Rod Eye 180 Digital RF
Rod Master	Available		
Working diameter	1.350 m (4.430 ft)	1.350 m (4.430 ft)	1.350 m (4.430 ft)
Extended detection window	120 mm / 5 in	120 mm / 5 in	120 mm / 5 in
Numeric readout height	–	90 mm / 3.5 in	90 mm / 3.5 in
Detectable spectrum	600 nm to 800 nm	600 nm to 800 nm	600 nm to 800 nm
Detection accuracies			
Ultra fine	–	± 0.5 mm / ± 0.02 in	± 0.5 mm / ± 0.02 in
Super fine	± 1.0 mm / ± 0.04 in	± 1.0 mm / ± 0.04 in	± 1.0 mm / ± 0.04 in
Fine	± 2.0 mm / ± 0.08 in	± 2.0 mm / ± 0.08 in	± 2.0 mm / ± 0.08 in
Medium	± 3.0 mm / ± 0.12 in	± 3.0 mm / ± 0.12 in	± 3.0 mm / ± 0.12 in
Coarse	–	± 5.0 mm / ± 0.20 in	± 5.0 mm / ± 0.20 in

* Accuracy is defined at 25 °C (77 °F) ** Battery life is dependent upon environmental conditions