Leica Rugby 810, 820, 830 & 840

The toughest construction lasers on site





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Leica Rugby construction lasers are more than just a product, they are an intelligent, versatile, clever solution that significantly enhance your application performance. The Rugby lasers are an integrated part of the Leica Geosystems intelligent **CON**struction portfolio, providing a comprehensive solution for our customers.







Laserman button triggers the Smart Targeting feature

Perform applications easier and faster than

- Smart Targeting: Automatically align your
- Smart Lock: Monitor and correct the laser plane in real-time avoiding costly mistakes, any movement of the laser plane will be detected





Unique power concept

Unbeatable versatility – power and charge

- Run and charge anywhere in the car, from a 12v battery or from a generator with external battery as a buffer





Toughest laser in the market

Site proof design – rugged and



- IP 68 protected (water proof to 1m (3') depth) and the only laser in the market with Military Grade Certification, the highest standard in water and dust protection!
- Quality you can trust Lifetime manufacturer's warranty, 5 years no cost period and 2 years knockdown warranty
- Maximum Temperature Stability guaranteed highest accuracy across the entire operating temperature range, providing the perfect solution in all conditions







Intelligent, versatile, clever it's more than just a laser!

- Operate and charge your laser at the same time using the solar panel – use the carry case and integrated bag to position the solar panel towards the sun



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Fit, fast, tough – select the best player for your site

Rugby 800 Series lasers level, align and square much quicker than ever before, eliminating costly errors and downtime.

Leica Rugby 810

Active 11

Leveling made easy

- Simple and reliable, one button laser where no mistakes are possible
- Single axis slopes up to 45° with optional manual slope adapter
- 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



Leica Rugby 820



Tough as concrete - unbeatable with slopes

- Carry out concrete forming, pad placement and framework leveling; setting foundations and footings has
- Automatic slope in single or dual-axis with the Leica Rod Eye 180 RF receiver by using the Smart Targeting and Smart Lock functionality
- Set in manual operation up to 10% in single or dual-axis





Keeps working when others stop



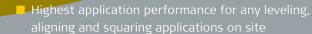
- No downtime with our solar panel power and charge anywhere, anytime
- For applications that require a slope, set in manual operation up to 10% in single or dual-axis
- Maximum Temperature Stability guaranteed highest accuracy across the entire operating temperature range



Leica Rugby 830



The laser that tackles it all



- Smart Targeting: Tie-in slopes in single or dual axis and automatically align fast and easy, at the touch of a button
- **Smart Lock:** Monitor and correct the laser plane in real-time, always ensuring reliable results
- Complete application solution in one case, with Leica Rod Eye 180 RF remote receiver and RC400 remote control





Leica Rugby 840





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The right team for every application on site





1 Land leveling

Full system for agricultural land leveling with the best results.



Grade checking

Easily and reliably check grades over long distances.



Slopes for ramps and driveways

Automatically tie-in slopes in single and dual axis using Smart Targeting.



Formwork verticality

Automatically align parallel to the reference with Smart Targeting and check plumb of formwork.



5 Set-out walls

Automatically align two points with Smart Targeting and mark position of wall/formwork.



6 Concrete pouring

Check height of concrete and use digital readout for clear indication of offset.



7 Batter board

Align batter board markings and set-out building axis.



10 Level decks and slabs

Level decks and slabs easily and efficiently. Digital readout provides clear indication of offset.



8 Formwork leveling

Transfer reference height and level formwork.



9 Facade alignment

Align fixings for facade over the entire plane.



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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 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

Smart Targeting



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

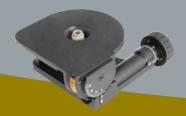


High application performance with Leica Rod Eye 140 – with the built-in 5 inch detection window you can easily detect

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 Lock		Smart Targeting		Smart Targeting
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-lon 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		
Environmental standard	IP 68 – water proof to 1m depth			
RC400 remote control				976 53 546
Operating range (diameter)	_			
		_	-	200 m (650 ft)
				200 m (650 ft)
Laser Receivers		in it is a second of the secon		200 m (650 ft)
Receivers		ic Rod Eve 1	60 Digital Ro	Smart Targeting
Receivers Technical data	Rod Eye 140 Class			200 m (650 ft)
Receivers			able	Smart Targeting
Receivers Technical data Rod Master	Rod Eye 140 Class	Avai 1.350 m	able	smart sargeting de Eye 180 Digital RF
Technical data Rod Master Working diameter	Rod Eye 140 Class	Avai 1.350 m	able 4.430 ft) n / 5 in	Smart Targeting of Eye 180 Digital RF
Receivers Technical data Rod Master Working diameter Extended detection window	Rod Eye 140 Class	Avai 1.350 m 120 mr 90 mm	able 4.430 ft) n / 5 in / 3.5 in	Smart Targeting of Eye 180 Digital RF 1.350 m (4.430 ft) 120 mm / 5 in
Technical data Rod Master Working diameter Extended detection window Numeric readout height	1.350 m (4.430 ft) 120 mm / 5 in	Avai 1.350 m 120 mr 90 mm	able 4.430 ft) n / 5 in / 3.5 in	1.350 m (4.430 ft) 120 mm / 5 in 90 mm / 3.5 in
Technical data Rod Master Working diameter Extended detection window Numeric readout height Detectable spectrum	1.350 m (4.430 ft) 120 mm / 5 in	Avai 1.350 m i 120 mi 90 mm 600 nm t	able 4.430 ft) n / 5 in / 3.5 in o 800 nm	Digital RF 1.350 m (4.430 ft) 120 mm / 5 in 90 mm / 3.5 in
Technical data Rod Master Working diameter Extended detection window Numeric readout height Detectable spectrum Detection accuracies	1.350 m (4.430 ft) 120 mm / 5 in	Avai 1.350 m 120 mr 90 mm 600 nm t	able 4.430 ft) n / 5 in / 3.5 in 0 800 nm / ± 0.02 in	1.350 m (4.430 ft) 120 mm / 5 in 90 mm / 3.5 in 600 nm to 800 nm
Technical data Rod Master Working diameter Extended detection window Numeric readout height Detectable spectrum Detection accuracies Ultra fine Super fine Fine	Rod Eye 140 Class 1.350 m (4.430 ft) 120 mm / 5 in - 600 nm to 800 nm - ± 1.0 mm / ± 0.04 ir ± 2.0 mm / ± 0.08 ir	Avai 1.350 m 120 mr 90 mm 600 nm t ± 0.5 mm 1.0 mm ± 1.0 mm ± 2.0 mm	able 4.430 ft) n / 5 in / 3.5 in 0 800 nm / ± 0.02 in / ± 0.04 in / ± 0.08 in	Independent of the second of t
Technical data Rod Master Working diameter Extended detection window Numeric readout height Detectable spectrum Detection accuracies Ultra fine Super fine	Rod Eye 140 Class 1.350 m (4.430 ft) 120 mm / 5 in - 600 nm to 800 nm - ± 1.0 mm / ± 0.04 in	Avai 1.350 m 120 mr 90 mm 600 nm t ± 0.5 mm 1.0 mm ± 1.0 mm ± 2.0 mm	able 4.430 ft) n / 5 in / 3.5 in 0 800 nm / ± 0.02 in / ± 0.04 in / ± 0.08 in / ± 0.12 in	### Instruction of the control of th

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

PROTECT by Leica Geosystems

Guaranteed reliability for the toughest construction lasers



Leica Rugby construction lasers get the job done, anywhere, anytime, providing reliability and accuracy even in harshest jobsite conditions. Our products are built to last. We offer a Lifetime Manufacturer's Warranty, 5 Years No Cost Period* and a 2 Year Knockdown Warranty.

For more information, please visit our website or contact your local Leica Geosystems representative.

* 5 Year No Cost applies to Leica Rugby 810, Leica Rugby 820, Leica Rugby 830, Leica Rugby 840, Leica Rugby 260SG, Leica Rugby 270SG & Leica Rugby 280DG.





Leica Geosystems intelligent CONstruction Enhancing your performance

Fully understanding construction carried us beyond the ordinary. The Leica Rugby products are an integrated part of the Leica Geosystems intelligent CONstruction portfolio, enabling you to enhance your performance and increase your profitability through perfecting your construction workflow.

iCONstruct

Intelligent rotating lasers combined with unique accessories provide unbeatable application performance.

- Rugged and robust
- Versatile



- Reliable
- Interchangeable

iCONtrol

Providing you with an efficient portfolio of rotating lasers that communicate with your machine receivers.



- High performance and precision for long range leveling
- Reliable and seamless receiver communication



iCONsult

A global sales and support network, providing advice on intelligent CONstruction solutions to grow your business.



- Offering a best-in-class service with PROTECT by Leica Geosystems
- Personal service
- Professional consultancy

iCONnect

Seamlessly integrate your rotating lasers with other intelligent construction products and solutions.



- Monitor and correct the laser plane in real-time
- Real-time data guarantees accurate jobs
- No downtime
- High productivity



Whether you have to precisely lay out a construction site, perform control measurements, collect height and angle data, align concrete forms, install ceilings and partitions, lay gravity flow pipe, locate underground services or complete site preparation and earthworks – Leica Geosystems offers the right instrument, construction laser or machine control installation specifically designed for your construction application.

Easy-to-use, jobsite-tough, accurate and reliable – Leica Geosystems instruments and lasers ensure the efficient use of your materials and resources. High-quality products, such as optical and electronic levels, construction lasers, total stations and machine automation systems, provide fast results, keep you working and increase your profitability.

When it has to be right.

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Leica Rugby 810, 820, 830 & 840: Laser class 2 in accordance with IEC 60825-1 resp. EN 60825-1



Leica DISTO™ Brochure



Leica iCON build Brochure



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Leica Piper 100/200 Brochure



Leica Builder Brochure

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