

# CONSTRUCTION TOOLS CATALOG





# GET THE RESULTS YOU NEED WITH THE RIGHT TOOLS FOR THE JOB.

**Easy-to-use, jobsite tough, accurate and reliable** – construction tools from CASE Construction Equipment ensure the efficient use of your materials and resources. High-quality products such as optical and digital levels, construction lasers, total stations, and detection systems provide fast results and keep you working to increase your profitability.



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# CONSTRUCTION LASERS.

**Whether it's general construction, pipe laying, machine control or interior walls and ceilings, our lasers are built to handle any environment.** All construction lasers are built with high-quality, high technology components making them ultra precise. Compare features and you'll see why our construction lasers set the standard for durability and value. Lasers from CASE are waterproof so all critical components are completely protected from wet weather conditions.





## Rugby CLH

### Simplicity at its Best.

Rugby CLH simplicity allows effortless use of the capabilities of the laser system. It saves time by simplifying applications and making you more productive. Its robust design secures measurement stability and accuracy for your daily tasks. The handle is fixed to the base with special sockets that feature high rigidity and provide a strong mount to the base.

The Rugby CLH is available in preconfigurable packages that include the battery, charger and carrying case, or can be upgraded from the basic to include the functionality of the preconfigurable options.

#### Features

- IP68 Military Grade with 2-year knockdown warranty and 5-year no cost against manufacturer defects
- Lithium-ion battery offers up to 50 hours runtime on a single charge
- Dual-full-length side shock handles ensure 360° shock protection
- Compatible with all current Rod Eye receivers

FEATURE	BASIC*	CLX200	CLX300	CLX400
Horizontal Plane	✓	✓	✓	✓
Self-Leveling +-6°	✓	✓	✓	✓
Accuracy +-10"	✓	✓	✓	✓
Head Speed 10 RPS	✓	✓	✓	✓
Power Safe Mode 7 RPS	✓	✓	✓	✓
Battery Operating Time 50h	✓	✓	✓	✓
HI Alert	✓	✓	✓	✓
Head Stall Alert	✓	✓	✓	✓
Temperature Alert 50°C	✓	✓	✓	✓
Temperature Stability Control 2°C, 5°C, Off		✓	✓	✓
Beam Masking		✓	✓	✓
Manual Slope Dual Grade 8%		✓	✓	✓
Single Semi Auto Grade, Dial in 8%			✓	
Dual Semi Auto Grade, Dial in 8%				✓
Single Auto Grade, Dial in 15%				✓
Slope Catch/Lock		✓	✓	✓

\*Standard software delivered with your laser

## Rugby CLH (cont.)

#### Rugby CLH Base Unit

Part No. LG6012274

Horizontal flat plane only

- Concrete and formwork leveling
- Height checking and transferring meter marks
- Land leveling
- Includes: Li-Ion battery, charger, case



#### Rugby CLH CLX200

Part No. LG6012276

Horizontal and slope, single manual grade up to 8% (no grade display)

- Manual slopes such as driveways, ramps
- Matching unknown slope (slope catching and monitoring)
- Includes: CLC remote/receiver combo, Li-Ion battery, charger, case

#### Rugby CLH CLX400

Part No. LG6012278

Horizontal and dual grade with dial-in, semi-auto to 8% with display

- Dial-in slopes in X- and Y-axes such as driveways, ramps
- Includes: CLC remote/receiver combo, Li-Ion battery, charger, case

#### Rugby CLH CLX300

Part No. LG6012277

Horizontal and single grade with dial-in, semi-auto to 8% with display

- Dial-in slopes in X-axis such as driveways, ramps
- Includes: CLC remote/receiver combo, Li-Ion battery, charger, case



## Rugby CLA-ctive

### Maximum Flexibility.

The maximum flexibility and the ability to quickly adjust to the job’s needs is vital for your projects. With the Rugby CLA-ctive you can get your laser upgraded to match your application needs. You pay for the functionality you need to do your job without paying for the extra features you don’t use.

The Rugby CLA-ctive is available in preconfigurable packages that include the battery, charger and carrying case, or can be upgraded from the basic to include the functionality of the preconfigurable options.

#### Features

- IP68 Military Grade with 2-year knockdown warranty and 5-year no cost against manufacturer defects
- Lithium-ion battery offers up to 50 hours runtime on a single charge
- Dual-full-length side shock handles ensure 360° shock protection
- Compatible with all current Rod Eye receivers
- CL Combo required for slope catch/lock, scanning, and electronic beam masking functionality

FEATURE	BASIC*	CLX250	CLX500	CLX600	CLX700
Horizontal Plane	✓	✓	✓	✓	✓
Self-Leveling +-6°	✓	✓	✓	✓	✓
Accuracy +-10"	✓	✓	✓	✓	✓
Head Speed 10 RPS	✓	✓	✓	✓	✓
Power Safe Mode 7 RPS	✓	✓	✓	✓	✓
Battery Operating Time 50h	✓	✓	✓	✓	✓
HI Alert	✓	✓	✓	✓	✓
Head Stall Alert	✓	✓	✓	✓	✓
Temperature Alert 50°C	✓	✓	✓	✓	✓
Head Speed 0, 2, 5, 10, 15 RPS			✓	✓	✓
Temperature Stability Control 2°C, 5°C, Off		✓	✓	✓	✓
Beam Masking		✓	✓	✓	✓
Manual Slope Dual Grade 8%		✓	✓	✓	✓
Single Auto Grade, Dial in 15%				✓	✓
Dual Semi Auto Grade, Dial in 15%					✓
Auto Axis Alignment				✓	✓
Slope Catch/Lock		✓	✓	✓	✓
Field Calibration		✓	✓	✓	✓
Laydown/Vertical Plane			✓	✓	✓
Beam Catching/Scanning 10°, 45°, 90°			✓	✓	✓

\*Standard software delivered with your laser

## Rugby CLA-ctive (cont.)

#### On-Board Functionality – New with CLA-ctive

- Select or make changes to more settings through intuitive menu structure
- Enter grade/move beam to grade required
- Change rotation speed
- Dial-in exact percentage of a plan
- Recognition of axis on laser



#### Rugby CLA-ctive Base Unit

Part No. LG6016027

- Horizontal flat plane only
- Includes: Li-Ion battery, charger, case

#### Rugby CLA-ctive CLX250

Part No. LG6016028

Horizontal, manual slope dual grade to 8%

- Beam masking
- 10/15 rps
- Temperature stability control 2°C, 5°C, off

#### Rugby CLA-ctive CLX600

Part No. LG6016031

Horizontal, vertical, and fully-automatic single grade with dial-in, auto single grade to 15%

- Fully automatic dial-in slopes in X-axis for driveways, ramps
- Includes: Li-Ion battery, charger, case

#### Rugby CLA-ctive CLX500

Part No. LG6016029

Horizontal, laydown, and manual slope dual grade to 8%

- Batterboard
- Formwork alignment
- Drywalls and suspended ceilings
- Includes: Li-Ion battery, charger, case

#### Rugby CLA-ctive CLX700

Part No. LG6016032

Horizontal, vertical, and fully-automatic dual grade with dial-in, auto dual grade to 15%

- Fully-automatic dial-in slopes in X- and Y-axes for driveways, ramps, roads, parking lots
- Includes: Li-Ion battery, charger, case



TECHNICAL DATA	CLH	CLA
Warranty	5Y/2Y knockdown	5Y/2Y knockdown
Grade capability* (X/Y-axes)	8%	15%
Self-leveling accuracy**	± 1.5 mm at 30 m (± 1/16" at 100 ft)	± 1.5 mm at 30 m (± 1/16" at 100 ft)
Self-leveling range	± 6°	± 6°
Operating range with Combo, Rod Eye 140/160	1,350 m diameter	1,350 m diameter
Remote range	600 m diameter	600 m diameter
Laser class	1	2
Environmental standard	IP68/MIL-STD-810G	IP68/MIL-STD-810G
Operating temperature	-20 °C to +50 °C -4 °F to +122 °F	-20 °C to +50 °C -4 °F to +122 °F
Storage temperature	-40 °C to +70 °C -40 °F to +158 °F	-40 °C to +70 °C -40 °F to +158 °F
Rotation speed	10, 15 RPS	0, 2, 5, 10, 15 RPS
Batteries (Li-Ion)	Li-Ion	Li-Ion
Battery operating time**	50 h	50 h
Battery charging	5 h (full charge) 1 h fast charge = 8 h operating	5 h (full charge) 1 h fast charge = 8 h operating
Dimensions (H x W x D)	230 mm/9.1 in 296 mm/11.7 in 212 mm/8.3 in	230 mm/9.1 in 296 mm/11.7 in 212 mm/8.3 in
Weight with batteries	3.8 kg/8.3 lbs	3.9 kg/8.5 lbs

\*Up to 45° with adapter.  
\*\*Accuracy defined at 25 °C (177 °F) battery life depending upon environmental conditions.  
All specifications depending on activated functionality.





Rugby 600 Series

Fit, fast, tough.

Rugby lasers are the toughest rotating lasers suitable for all construction applications. Level, align and square much quicker than ever before, eliminating costly errors and downtime.

Rugby 610

One button simplicity. A one-button, self-leveling horizontal laser (single axis, with manual slope control when used with the A240 Manual Slope Adapter).

- Superb performance with all Rod Eye receivers – extend your working range using the Rod Eye 140 Classic and the Rod Eye 160 Digital

PART NO.	DESCRIPTION
LG810945	Rugby 610 and Carrying Case
LG6011149	Rugby 610, Case, Rod Eye 120, Li-ion
LG6011150	Rugby 610, Case, Rod Eye 120, Alkaline
LG6014248	Rugby 610, Case, Rod Eye 120, Li-ion, Tripod
LG6008613	Rugby 610, Case, Rod Eye 140, Li-ion
LG6008614	Rugby 610, Case, Rod Eye 140, Alkaline
LG6008615	Rugby 610, Case, Rod Eye 160, Li-ion
LG6008616	Rugby 610, Case, Rod Eye 160, Alkaline



Rugby 620

Simple and reliable. An accurate, easy-to-use, self-leveling horizontal laser with manual grade control.

- Concrete forming, pad placement and framework leveling; setting foundations and footings has never been more efficient
- Manual slopes up to 8% in dual axis

PART NO.	DESCRIPTION
LG790359	Rugby 620 and Carrying Case
LG6011151	Rugby 620, Case, Rod Eye 120, Li-ion
LG6011152	Rugby 620, Case, Rod Eye 120, Alkaline
LG6005984	Rugby 620, Case, Rod Eye 140, Li-ion
LG6005983	Rugby 620, Case, Rod Eye 140, Alkaline
LG6005986	Rugby 620, Case, Rod Eye 160, Li-ion
LG6005985	Rugby 620, Case, Rod Eye 160, Alkaline



Rugby 640/640G

Versatile inside and out. A multi-purpose, self-leveling horizontal/vertical laser for interior and general construction applications. Available with red or green beam.

- Green diode technology in the Rugby 640G provides outstanding visibility for indoor applications
- Fit for any interior and exterior leveling, aligning and squaring application
- Work conveniently with offsets thanks to the Rod Eye receivers digital read-out
- Scan 90 – make layout easier by quickly moving the beam 90° to the left or right side
- Plumb Down – automatic and accurate plumb down direction for alignment over a reference point
- Sleep Mode – save battery and put the Rugby into sleep mode

Rugby 640

PART NO.	DESCRIPTION
LG790363	Rugby 640 and Carrying Case
LG6011153	Rugby 640, Case, Rod Eye 120, Li-ion
LG6011154	Rugby 640, Case, Rod Eye 120, Alkaline
LG6005988	Rugby 640, Case, Rod Eye 140, Li-ion
LG6005987	Rugby 640, Case, Rod Eye 140, Alkaline
LG6006000	Rugby 640, Case, Rod Eye 160, Li-ion
LG6005989	Rugby 640, Case, Rod Eye 160, Alkaline
LG6011156	Rugby 640 Interior Package, Rod Eye 120, RC400, Li-ion
LG6011155	Rugby 640 Interior Package, Rod Eye 120, RC400, Alkaline
LG6011481	Rugby 640, Case, Rod Eye 120, RC400, Li-ion
LG6011483	Rugby 640, Case, Rod Eye 120, RC400, Alkaline



Rugby 640G

PART NO.	DESCRIPTION
LG845495	Rugby 640G and Carrying Case
LG6011485	Rugby 640G, Case, Rod Eye 120G, Li-ion
LG6011486	Rugby 640G, Case, Rod Eye 120G, Alkaline
LG6011487	Rugby 640G, Case, Rod Eye 120G, RC400, Li-ion
LG6011488	Rugby 640G, Case, Rod Eye 120G, RC400, Alkaline
LG6011489	Rugby 640G, Interior Package, Rod Eye 120G, RC400, Li-ion





Rugby 680

Semi-automatic, dual grade laser. The Rugby 680 is a semi-automatic, dual slope laser designed for the contractor that does mostly flat work, but occasionally needs to create a slope in two axes such as a small parking area.

- A great general semi-automatic construction laser with digital grade capability
- Dial-in dual axis, easy and fast at the touch of a button
- The unique Smart Slope function continuously monitors time and temperature changes to ensure accurate performance over the course of the day



PART NO.	DESCRIPTION
LG790381	Rugby 680 and Carrying Case
LG6011159	Rugby 680, Case, Rod Eye 120, Li-ion
LG6011160	Rugby 680, Case, Rod Eye 120, Alkaline
LG6006007	Rugby 680, Case, Rod Eye 140, Alkaline
LG6006010	Rugby 680, Case, Rod Eye 160, Li-ion

TECHNICAL DATA	RUGBY 610	RUGBY 620	RUGBY 640	RUGBY 640G	RUGBY 680
Functionality	Self-leveling horizontal, single manual slope (with slope adapter)	Self-leveling horizontal, with dual axis manual slope	Self-leveling horizontal, vertical, 90° with dual axis manual slope	Self-leveling, horizontal, vertical, 90° and manual slope in dual axis	Semi-automatic, self-leveling, horizontal with dial-in, dual axis
Range (diameter) with Rod Eye 120/120G	800 m (2,600 ft)	800 m (2,600 ft)	500 m (1,650 ft)	400 m (1,300 ft)	900 m (2,900 ft)
Range (diameter) with Rod Eye 140/160	1,100 m (3,600 ft)	1,100 m (3,600 ft)	600 m (2,000 ft)	600 m (2,000 ft)	1,100 m (3,600 ft)
Self-leveling accuracy	± 2.2 mm at 30 m (± 3/32 in at 100 ft)	± 2.2 mm at 30 m (± 3/32 in at 100 ft)	± 2.2 mm at 30 m (± 1/16 in at 100 ft)	± 2.2 mm at 30 m (± 1/16 in at 100 ft)	± 1.5 mm at 30 m (± 1/16 in at 100 ft)
Self-leveling range	±5°	±5°	±5°	±5°	±5°
H.I. elevation alert	✓	✓	✓	✓	✓
Rotation speeds	10 rps	10 rps	0, 2, 5, 10 rps	0, 2, 5, 10 rps	10 rps
Scanning modes	—	—	10°, 45°, 90°	10°, 45°, 90°	10°, 45°, 90°
Remote control/radius	—	—	RC400/200 m	RC400/200 m	—
Laser diode type/class	635 nm/Class 1	635 nm/Class 1	635 nm/Class 2	520 nm/Class 2	635 nm/Class 1
Dimensions (H x W x D)	212 x 239 x 192 mm				
Weight with battery	2.4 kg (5.2 lbs)	2.4 kg (5.2 lbs)	2.6 kg (5.6 lbs)	2.6 kg (5.6 lbs)	2.6 kg (5.6 lbs)
Batteries (alkaline/rechargeable)	Four D-cells/ Li-Ion pack (A600)	Four D-cells/ Li-Ion pack (A600)	Four D-cells/ Li-Ion pack (A600)	Four D-cells/ Li-Ion pack (A600)	Four D-cells/ Li-Ion pack (A600)
Battery life (alkaline/rechargeable)	60 hours/40 hours at 20 °C (68 °F)	60 hours/40 hours at 20 °C (68 °F)	60 hours/40 hours at 20 °C (68 °F)	60 hours/40 hours at 20 °C (68 °F)	60 hours/40 hours at 20 °C (68 °F)
Environmental standard	IP 67				
Operating temperature range	-10 °C to +50 °C (+14 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)

Rugby CLH, CLA-ctive and Rugby 600 Series Accessories

ACCESSORY	PART NO.	CLH/CLA-CTIVE	600 SERIES
CET103, Aluminum elevator tripod, 246 cm	LG768033	✓	✓
CTP104 Tripod with fast clamps	LG767710	✓	✓
Tripod for Laser 157 cm - 330 cm, Aluminum	LG733803	✓	✓
CTC290, Aluminum elevator tripod, 290 cm	LG866196	✓	✓
CT160 Tripod with screw clamps	LG864856	✓	✓
Flexi Rod scale mm	LG868132	✓	✓
Rugby Smart Adapter with 90° Rod Eye clamp for all Rugby lasers	LG864855	✓	✓
CLC Combo Receiver-Remote with Bracket	LG864848	✓	✓
90° Rod Eye Clamp (all Rod Eyes and Combo)	LG864860	✓	
Rugby Scope with adapter plate for Rugby CLA	LG864859	✓	
RC400 Remote Control: Operates with Rugby 640/640G	LG790352		✓
RC800 - Grade Laser Remote	LG840706		✓
A240 Manual Slope Adapter: Used with Rugby 610	LG790434		✓
A200 Wall Mount Bracket: Used with Rugby 640	LG790421		✓



Part No. LG767710



Part No. LG868132



Part No. LG768033



Part No. LG840706



Part No. LG864852



Part No. LG864855



Part No. LG790434



Part No. LG790421



Part No. LG864848



Part No. LG864860



Part No. LG864859



## Laser Receivers

Professional laser receivers for construction applications.

Work confidently with unmatched precision on even the toughest of jobsites. Designed to take on almost any construction application, our full-range of reliable laser receivers feature a variety of accuracy settings, detection windows, digital readouts, and ranges to help you stay on grade.

### Combo Receiver/Remote

The combo is a digital receiver and remote control combined in one device. Save time and work conveniently with offset and an adjustable sensor window.

#### Rugby CL Combo Receiver and Remote

Part No. LG864848

- Anti-strobe feature assures highest detection reliability



COMBO (RECEIVER/REMOTE)	
Warranty	3-Year
Anti-Strobe	✓
Working range – Receiver	1,350 m/4,430 ft (diameter)
Working range – Remote	600 m/1,969 ft (diameter)
Detection window	120 mm/4.7 in
Digital window	✓
Offset	✓
Variable detection window length	✓
Audio volumes	4 (including mute)
Detection bandwidth	0.5, 1, 2, 5 mm (.02, .04, .08, .20 in)
Environmental standard	IP67
Batteries (Li-Ion)/battery operating time**	Li-Ion 3.7V/50 h
Battery charging	5 h (full charge) 1 h (fast charge – 8 h operating)
Rechargeable battery/charging with power bank (USB-C)	✓
Dimensions (H x W x D)	205 mm/8.1 in, 86 mm/3.4 in, 32 mm/1.2 in
Operating temperature	-20 °C to +50 °C, -4 °F to +122 °F
Weight with batteries	0.4 kg/0.9 lbs

\*\*Accuracy defined at 25 °C (177 °F) battery life depending upon environmental conditions.  
All specifications depending on activated functionality.

## Laser Receivers (cont.)

### Rod Eye 120/120G Basic

Part No. LG789922/LG844745

Offering three accuracy settings, 70 mm detection windows, and a 900 m range, the Rod Eye 120/120G are great receivers for all general construction applications.

- LCD indication – two large graphic displays on the front and back of the receiver
- Audio indication – three volume levels: loud, soft and off
- Accuracy (bandwidth) indication – three accuracy levels: fine, medium and coarse
- Built-in 7 cm detection windows allow easy detection of the beam over the entire distance



### Rod Eye 140 Classic

Part No. LG789923

The Rod Eye 140 features increased capture height and working distance as well as a level vial to ensure good alignment and improved reading accuracy.

- LCD indication – two large graphic displays on the front and back of the receiver
- Level vial – ensures excellent alignment and improved reading accuracy
- Anti-strobe protection – detects and ignores the flash from strong strobes on the job
- Built-in 12 cm (5") detection window you can easily detect the beam over the entire distance



### Rod Eye 160 Digital

Part No. LG789924

Featuring a digital readout, the large numbers are clear and easy to read so you stay on grade.

- Digital readout for clear and easy reading
- .5 mm accuracy
- Anti-strobe protection – detects and ignores the flash from strong strobes on the job
- Capture function – allows the user to store and display a measurement





Laser Receivers (cont.)



TECHNICAL DATA	ROD EYE 120 BASIC	ROD EYE 120G BASIC	ROD EYE 140 CLASSIC	ROD EYE 160 DIGITAL
Smart Targeting, Smart Lock	—	—	—	—
Working diameter (laser dependent)	900 m (3,000 ft)	200 m (656.168 ft)	1,350 m (4,430 ft)	1,350 m (4,430 ft)
Detection window	70 mm (2.8 in)	70 mm (2.8 in)	120 mm (5.0 in)	120 mm (5.0 in)
Digital readout/height	—	—	—	90 mm (3.5 in)
Digital readout/units	—	—	—	mm, cm, in, frac, ft
Detectable spectrum	600 nm to 800 nm	600 nm to 800 nm	600 nm to 800 nm	600 nm to 800 nm
Automatic shutoff	10 minutes	10 minutes	10 minutes	10 minutes
Audio volumes	High/Low/Off	High/Low/Off	High/Low/Off	High/Med/Low/Off
Arrow display	9 channels	9 channels	9 channels	15 channels
Detection accuracies	Fine ± 1 mm (±0.04 in)  Medium ± 2 mm (±0.08 in)  Coarse ± 3 mm (±0.12 in)	Fine ± 1 mm (±0.04 in)  Medium ± 2 mm (±0.08 in)  Coarse ± 3 mm (±0.12 in)	Fine ± 1 mm (±0.04 in)  Medium ± 2 mm (±0.08 in)  Coarse ± 3 mm (±0.12 in)	Very fine ± 0.5 mm (±0.02 in)  Fine ± 1 mm (±0.04 in)  Medium ± 2 mm (±0.08 in)  Coarse ± 3 mm (±0.12 in)  Very Coarse ± 5 mm (±0.20 in)
LED display	—	—	✓	✓
Anti-strobe protection	—	—	✓	✓
Memory, last beam strike	—	—	✓	✓
Beam finding, double beep	—	—	✓	✓
Laser low battery indicator	—	—	✓	✓
Environmental standard	IP 67	IP 67	IP 67	IP 67
Battery life (hours)	50+ (2x AA type)	50+ (2x AA type)	50+ (2x AA type)	50+ (2x AA type)
Dimensions (H × W × D)	173 × 76 × 29 mm (6.8 × 3.0 × 1.1 in)	173 × 76 × 29 mm (6.8 × 3.0 × 1.1 in)	173 × 76 × 29 mm (6.8 × 3.0 × 1.1 in)	173 × 76 × 29 mm (6.8 × 3.0 × 1.1 in)
Operating temperature range	−20 °C to +50 °C (−4 °F to +122 °F)	−20 °C to +50 °C (−4 °F to +122 °F)	−20 °C to +50 °C (−4 °F to +122 °F)	−20 °C to +50 °C (−4 °F to +122 °F)
Warranty	3 years	3 years	3 years	3 years

Piper Series

The worlds most versatile pipe lasers.

Work with confidence using the Piper series of pipe lasers. Whether in the pipe, over the top, or in the manhole, the Piper series lasers perform powerfully even in tough jobsite conditions. The Piper is the only pipe laser that fits inside a 100 mm (4 in) pipe.



Piper 100/100G/200

Piper 100 Package

Part No. LG748704

- Piper 100, remote, target, Li-Ion battery
- Includes: Charger, car adapter cable and carrying case

Piper 100G Package

Part No. LG6016058

- Piper 100G, remote, target, Li-Ion battery
- Includes: Charger, car adapter cable and carrying case

Piper 200 Package with Alignmaster

Part No. LG748710

- Piper 200, remote, target, Li-Ion battery
- Includes: Charger, car adapter cable and carrying case

TECHNICAL DATA	PIPER 100/100G	PIPER 200
Laser type	635 nm (red) Laser Class 3R 520 nm (green) Laser Class 3R	635 nm (red) Laser Class 3R
Working range	200 m (650 ft)	200 m (650 ft)
Laser output	4.75 mW Maximum	4.75 mW Maximum
Grade range	-10% to +25%	-10% to +25%
Self-leveling range	-15% to +30%	-15% to +30%
Line movement	6 m at 30 m (20 ft at 100 ft)	6 m at 30 m (20 ft at 100 ft)
Battery type	Lithium-Ion	Lithium-Ion
Operation/charge*	40h/4h	40h/4h
Operating temperature range	−20 °C to +50 °C (−4° to +122 °F)	−20 °C to +50 °C (−4° to +122 °F)
Weight	2 kg	2 kg
Protection class (splash water/dustproof)	IP68	IP68
Construction	Cast Aluminum	Cast Aluminum
Dimensions (Diameter × Length)	96 × 267 mm (3.8 in × 10.5 in)	96 × 267 mm (3.8 in × 10.5 in)
Wireless remote	Front 150 m, back 10 m	Front 150 m, back 10 m
Alignmaster (Auto. targeting system)	No	Yes

\*Dependent upon environmental conditions



## Machine Receivers

### Highly accurate grade control.

Machine receivers from CASE take the guess-work out of grade control. Used with any rotating laser, machine receivers will save critical time and money by reducing over- or under-cutting.

### MC200 Depthmaster

Turn your dipper stick into a measuring tool! The Depthmaster depth indication system is designed for digging applications where only indicate control is required. Mounted on the dipper stick, it works with any rotating laser and transforms your dipper stick into a measuring tool.

- Works with any rotating laser
- Daily set-up can be done in minutes
- Delivers accurate grade readings with its built-in patented plumb indication
- Can be installed on any excavator or back-hoe
- Comfortable reactivation while in stand-by without leaving the cabin (Shake to Wake)
- Intuitive indications and uses – no extensive studies of manual necessary
- Very easy to understand and use

### Depthmaster Excavator Receivers

- Includes: Depthmaster with carrying case, battery pack NiMH for Depthmaster, bracket(s), charger, user manual

#### Part No. LG742701

- Magnetic bracket and clamp-on brackets (2)



#### Part No. LG742440

- Magnetic bracket



#### Part No. LG742438

- Clamp-on brackets (2)

### LMR 240

Ideal for use with backhoes and mini-excavators, the LMR 240 offers the convenience of a machine-mounted display at an economical price. The LMR 240 receiver provides accurate grade information for all visual machine control applications, with 240° detection of any rotating laser.

- Accurate grade control
- Extra-strong attachment
- Rugged and waterproof

#### LMR 240

##### Part No. LG773569

- Includes: magnetic mount, carrying case and batteries



### LMR 360

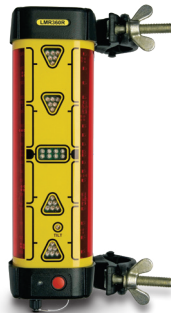
The LMR 360 offers accurate grade information for all visual machine control applications. Large 360° detection window picks up any rotating laser, from any angle. Built-in vertical indicator monitors angle of the stick, signaling if its plumb or under- or overextended. Vertical position ensures consistent and accurate grade readings, saving money by reducing over- or under-cutting.

- Accurate grade control
- Built-in vertical indicator
- Waterproof

#### LMR 360 Receiver with Clamp/Magnet

##### Part No. LG6009892

- Includes: LMR 360 receiver with clamps, case and magnets



#### LMR 360 Receiver with Remote Display

##### Part No. LG6009893

- Includes: LMR 360 receiver with clamps, case, magnets and remote display



TECHNICAL DATA	MC200 DEPTHMASTER	LMR 240	LMR 360
Range	200 m (650 ft)	250 m (750 ft)	400 m (1,300 ft)
Reception	200°	240°	360°
Capture window	21 cm (8.3 in)	15 cm (5 in)	25 cm (9.75 in)
Accuracy (fine)	± 4 mm (± 1/6 in)	1.5 – 6 mm (1/4 in)	6 mm (1/4 in)
Accuracy (coarse)	± 12 mm (1/2 in)	10 – 15 mm (1/3 - 1/2 in)	12 mm (1/2 in)
Environmental standard	IP 67	IP 67	IP 67
Battery type	NiCd rechargeable (NiMH Q3/14)	3 × AA batteries	NiMH rechargeable
Battery life	> 48 hours	120 – 160 hours	30 hours
Weight	2.4 kg (5.3 lbs)	1.9 kg (4.8 lbs)	1.8 kg (4 lbs)
Mounting	Magnetic/Clamps	Magnetic	Magnetic/Clamps
Remote display	–	–	✓
Remote range	–	–	30 m



# OPTICAL LEVELS.

**Extreme robustness, high measurement precision and an extremely competitive price.** It all makes a difference. Optical levels from CASE are extremely simple to use, requiring little to no training. Easily configure the levels to suit your job and preferences.



## NA300 Series

Unique. Accurate. Simple.

The NA300 Series of automatic (optical) levels has been developed for professionals who are looking for the highest quality results day by day. With the many obstructions and uneven surfaces on construction and building sites, the NA300 levels rise to the occasion and ensure the straightest and safest construction possible.

- Protected shape for increased ergonomic handling while ensuring the highest quality results
- Simple handling for quick and accurate measurements



Part No. LG840383  
NA332 Optical Laser

### NA320

Part No. LG840381

- Automatic level in carry case, with 20× magnification

### NA324

Part No. LG840382

- Automatic level in carry case, with 24× magnification

### NA332

Part No. LG840383

- Automatic level in carry case, with 32× magnification

	NA320	NA324	NA332
TECHNICAL DATA			
Standard deviation for 1 km double leveling (ISO17123-2)	2.5 mm	2.0 mm	1.8 mm
TELESCOPE			
Telescope image	Upright	Upright	Upright
Magnification	20×	24×	32×
Objective aperture	36 mm	36 mm	36 mm
Shortest target distance from instr. axis	<1.0 m	<1.0 m	<1.0 m
Field of view at 100 m	<2.1 m	<2.1 m	<2.1 m
Multiplication factor	100	100	100
Additive constant	0	0	0
COMPENSATOR			
Working range	± 15'	± 15'	± 15'
Setting accuracy (standard deviation)	<0.5"	<0.5"	<0.5"
Sensitivity	8/2 mm	8/2 mm	8/2 mm
HORIZONTAL CIRCLE			
Graduation	360°	360°	360°
Graduation interval	1°	1°	1°
Weight (net)	1.5 kg	1.5 kg	1.5 kg
Operating temperature range	-20 °C to +40 °C	-20 °C to +40 °C	-20 °C to +40 °C



## NA500 Series

Engineered for professionals by experts.

Every day, construction professionals face their share of irregular surfaces on site. Whatever the challenge, NA500 Series levels deliver the quality, performance and accuracy you need to get the job done. Regardless of jobsite conditions, you can turn to the NA500 Series for trusted and reliable performance, measurement after measurement.

- Quick and easy measurements
- Unique design and highest quality of results for leveling needs
- Manufactured for the most rugged sites and the harshest conditions



Part No. LG840386  
NA532 Optical Laser

	NA520	NA524	NA532
TECHNICAL DATA			
Standard deviation for 1 km double leveling (ISO17123-2)	2.5 mm	1.9 mm	1.8 mm
TELESCOPE			
Telescope image	Upright	Upright	Upright
Magnification	20×	24×	32×
Objective aperture	36 mm	36 mm	36 mm
Shortest target distance from instr. axis	<1.0 m	<1.0 m	<1.0 m
Field of view at 100 m	<2.1 m	<2.1 m	<2.1 m
Multiplication factor	100	100	100
Additive constant	0	0	0
COMPENSATOR			
Working range	± 15'	± 15'	± 15'
Setting accuracy (standard deviation)	<0.5"	<0.5"	<0.5"
Sensitivity	8/2 mm	8/2 mm	8/2 mm
HORIZONTAL CIRCLE			
Graduation	360°	360°	360°
Graduation interval	1°	1°	1°
Weight (net)	1.5 kg	1.5 kg	1.5 kg
Operating temperature range	–20 °C to +50 °C	–20 °C to +50 °C	–20 °C to +50 °C
Protection	IP56	IP56	IP56

- NA520**  
Part No. LG840384
  - Automatic level in carry case, with 20× magnification
- NA524**  
Part No. LG840385
  - Automatic level in carry case, with 24× magnification
- NA532**  
Part No. LG840386
  - Automatic level in carry case, with 32× magnification

## NA700 Series

Built for builders, engineers and surveyors.

Nothing stops a NA700 level. A short drop, water, vibration from heavy machinery – with the NA700 level you just keep on working. No time-consuming checking or readjustments. And with best-in-class optics you are always able to work as precisely as possible.

- Simple operation and convenient pointing
- Comfortable read-out with no conversion required
- Outstanding contrast
- Impact-resistant, water-tight and dust-tight



Part No. LG833190  
NA730 plus Optical Laser

- NA720**  
Part No. LG641982
  - Automatic Level 20× telescopic magnification. The automatic level for all applications on the construction site
- NA724**  
Part No. LG641983
  - Automatic Level 24× telescopic magnification for improved accuracy. Reliability and robust-ness for the demanding construction user
- NA730 plus**  
Part No. LG833190
  - Automatic Level 30× telescopic magnification. The most precise. Meets the highest standards in construction, engineering and topographic surveys

	NA720	NA724	NA730 plus
TELESCOPE			
Magnification	20×	24×	30×
Telescope image	Upright	Upright	Upright
Nitrogen-filled telescope	Yes	Yes	Yes
Lens diameter	30 mm	36 mm	40 mm
Shortest target distance	0.5 m	0.5 m	0.7
Angle measurement	Choose between 360°/400 gon		
DISTANCE MEASUREMENT			
– Multiplication factor	100	100	100
– Additive constant	0	0	0
Circular level	10'/2 mm	10'/2 mm	10'/2 mm
Horizontal drive	Both sides, endless		
ACCURACY (STANDARD DEVIATION)			
Per km double leveling	2.5 mm	2 mm	0.7 mm
Single measurement with 30 m target distance	1.5 mm	1.2 mm	0.4 mm
COMPENSATOR			
Setting accuracy	<0.5"	<0.5"	<0.3"
Tilt area	± 15'	± 15'	± 15'
ENVIRONMENTAL STRESSES			
Drop resistance	ISO 9022-33-5		
Water-tightness and dust-tightness	IP 57 (submersible)		
Temperature range			
– Operating temperature	–20 to +50 °C	–20 to +50 °C	–20 to +50 °C
– Storage temperature	–40 to +70 °C	–40 to +70 °C	–40 to +70 °C
DIMENSIONS			
Size	19 × 12 × 12 cm	19 × 12 × 12 cm	21 × 12 × 12 cm
Weight	1.6 kg	1.6 kg	1.7 kg



# DIGITAL LEVELS.

**Leveling can be so easy with digital levels from CASE.** Push the button and heights, height differences and distances are automatically displayed. There will be no more misreading and interpretation errors in reading the staff.

It is also possible to use it as an optical level, however compared to a conventional level, the digital levels effortless, fast measurements could save you valuable time and reduce errors. Our digital levels even include additional error reducing functions such as built-in tilt sensors, preventing the system from measuring if the user operates outside the compensator range.



## Sprinter 150/150M

Advanced opportunities.

For more complex construction tasks, the Sprinter 150 automatically determines delta height and reduced level. The Sprinter 150M is the perfect tool for advanced construction leveling tasks. It can store up to 2,000 measurements which can be downloaded and transferred easily via a USB. The Sprinter's onboard software, with functionalities such as Line Leveling and Cut & Fill as well as monitoring, facilitates all leveling jobs significantly.

### Sprinter 150

Part No. LG762629

- Includes: Electronic level, case, strap, adjustment tools, user manual and 4 x AA batteries

### Sprinter 150M

Part No. LG762630

- Includes: Electronic level with internal memory, standard deviation 1.5 mm, includes container, strap, adjustment tools, user manual, 4 x AA batteries, USB cable and CD



TECHNICAL DATA	SPRINTER 150/150M
<b>Height accuracies</b>	Standard deviation height measurement per 1 km double run (ISO 17123-2) 1.5 mm (1/16 in)
– Electronic measurement*	With standard aluminum E-scale/Numeral staff: 2.5 mm
– Optical measurement	Standard deviation: 0.6 mm (1/32 in) (electronic) and 1.2 mm (3/64 in) (optical) at 30 m (100 ft)
– Single staff reading	
<b>Distance accuracies</b>	Standard deviation distance measurement 10 mm for D < 10 m and (Distance in m x 0.001) for D > 10 m (33 ft)
<b>Range</b>	2 –100 m (6.5 – 330 ft) (electronic)
<b>Measuring modes</b>	Single and Tracking
<b>Time for single measurement</b>	< 3 sec
<b>Compensator</b>	Magnet damped pendulum compensator (range +/- 10 min)
<b>Telescope</b>	Magnification (optical) 24x
<b>Data storage</b>	Up to 1,000 points (only 150M)
<b>Environmental conditions</b>	IP 55
<b>Power supply</b>	AA dry cells (4 x LR6/AA/AM3 1.5 V)
<b>Weight</b>	<2.5 kg (<5.5 lbs)

\*0.7 mm can be achieved with Sprinter fiberglass barcode staff



## Sprinter Packages

### Sprinter Feet Rechargeable Packages

#### Sprinter 150 Feet

Part No. LG6002131

- Includes: Sprinter Level, Powerline 4 Light charger, Dual face telescopic staff, 5 m 4 sect, feet/10th

#### Sprinter 150M Feet

Part No. LG6002134

- Includes: Sprinter Level, Powerline 4 Light charger, Dual face telescopic staff, 5 m 4 sect, feet/10th

#### Sprinter 250M Feet

Part No. LG6002137

- Includes: Sprinter Level, Powerline 4 Light charger, Dual face telescopic staff, 5 m 4 sect, feet/10th

### Sprinter Metric Rechargeable Packages

#### Sprinter 150 Metric

Part No. LG6002132

- Includes: Sprinter Level, Powerline 4 Light charger, Dual face telescopic staff, 5 m 4 sect, metric

#### Sprinter 150M Metric

Part No. LG6002135

- Includes: Sprinter Level, Powerline 4 Light charger, Dual face telescopic staff, 5 m 4 sect, metric

### Sprinter Metric 2 mm-Graduated Packages

#### Sprinter 150 Metric 2 mm-Graduated

Part No. LG6002133

- Includes: Sprinter Level, Dual face telescopic staff 5 m 4 sect, metric, Aluminum tripod, shoulder strap

#### Sprinter 150M Metric 2 mm-Graduated

Part No. LG6002136

- Includes: Sprinter Level, Dual face telescopic staff 5 m 4 sect, metric, Aluminum tripod, shoulder strap





# DETECTION SYSTEMS.

When it comes to determining the precise location of buried utility networks, the stakes have never been higher. Cut through the complexity of locating underground utilities with detection systems that ensure accurate surveys, precision tracing, reliable mapping, and safe underground excavations.



## ULTRA Utility Tracing System

Our most advanced precision utility tracing instrument.

Save time and increase confidence in your results with the ULTRA, our most advanced precision utility tracing instrument.

The complexity of underground utility networks is continually increasing and obtaining precise information on the location of buried utilities has never been more important. The protection of buried assets during excavation work demands accurate mapping and surveying of existing utilities.

Integrating intelligent signal processing with unique flexible operating modes, ULTRA traces buried utility lines accurately for safe underground excavations and utility surveys. Outstanding performance with operational ease and flexibility.

- Best frequencies in congested environments
- Clear graphical LCD screen with auto-pinpointing direction arrows ensures confident and fast tracing in all operating conditions
- One person, single-step data capture solution for buried utility mapping or surveying applications
- Transmitter to receiver link allows you to control the transmitter directly from the receiver
- Trace utilities through any obstruction with Offset Measuring. ULTRA locates the target line if not directly accessible from above

### ULTRA Locator

Part No. LG818699

- The ULTRA is a precision utility tracing instrument configurable for extensive range of applications and allows for 100 customized frequencies and shows direction to the utility through left/right guidance arrows and an on-screen compass.



### ULTRA Advanced Locator

Part No. LG818698

- The ULTRA Advanced has the same functionality as the ULTRA locator, with the added benefit of Bluetooth® connectivity, remote transmitter link, Offset Depth measurements and Ambient Noise measurement.



### ULTRA Signal Transmitter

Part No. LG818702 – ULTRA 5 Watt Signal Transmitter

Part No. LG818701 – ULTRA 12 Watt Signal Transmitter

Part No. LG818700 – ULTRA Advanced 12 Watt Signal Transmitter

- The ULTRA Signal transmitter range provides the highest degree of flexibility, performance and durability to suit your tracing needs. Standard models offer multiple trace frequencies that can be configured for specific tasks and are available in 5 Watts or 12 Watts options. The 12 Watt Advanced model has the added benefit of a Bluetooth link to the locator enabling the operator to control the transmitter directly from the ULTRA Advanced locator.





## ULTRA Utility Tracing System (cont.)

### ULTRA Utility Tracing System Packages

- Includes: ULTRA Advanced Locator, ULTRA Advanced Transmitter, ULTRA signal clamp, 125 mm (5"), ULTRA system bag

**12 Watt Advanced**  
Part No. **LG6011141**

**12 Watt Standard**  
Part No. **LG6011143**

**5 Watt Standard**  
Part No. **LG6011142**

### ULTRA Locators

	STANDARD	ADVANCED
Frequency range	50 Hz - 200 kHz	50 Hz - 200 kHz
Depth	max 6 m (20 ft)	max 6 m (20 ft)
Depth accuracy	In line - ±5% to 3 m (±5% to 10 ft) Sonde - ±5% to 3 m (±5% to 10 ft) Passive - ±5% to 3 m (±5% to 10 ft)	In line - ±5% to 3 m (±5% to 10 ft) Sonde - ±5% to 3 m (±5% to 10 ft) Passive - ±5% to 3 m (±5% to 10 ft)
Enabled frequencies	512 Hz, 3.14 kHz, 8.192 kHz, 32.768 kHz, 83.1 kHz, 200 kHz	512 Hz, 3.14 kHz, 8.192 kHz, 32.768 kHz, 83.1 kHz, 200 kHz
Custom frequencies	Up to 100 custom frequencies from 256 Hz - 83 kHz	Up to 100 custom frequencies from 256 Hz - 83 kHz
Line direction compass with proportional L/R arrow guidance	Yes	Yes
Offset depth	—	Yes
AIM	—	Yes
Receiver/transmitter communications	—	Yes
Bluetooth® connectivity	—	Yes

### ULTRA Transmitters

	5 WATT	12 WATT	ADVANCED
Power output	5 Watt	12 Watt	12 Watt
Enabled frequencies	512 Hz, 3.14 kHz, 8.192 kHz, 32.768 kHz, 83.1 kHz, 200 kHz	512 Hz, 3.14 kHz, 8.192 kHz, 32.768 kHz, 83.1 kHz, 200 kHz	512 Hz, 3.14 kHz, 8.192 kHz, 32.768 kHz, 83.1 kHz, 200 kHz
Custom frequencies	Up to 100 custom frequencies from 256 Hz - 83 kHz	Up to 100 custom frequencies from 256 Hz - 83 kHz	Up to 100 custom frequencies from 256 Hz - 83 kHz
External 12V power connection	—	—	Yes
Dual output	—	—	Yes
Receiver/transmitter communications	—	—	Yes

## DD SMART Locators

Work safer, work faster, work simpler.

The DD SMART utility locator solution is the only complete portfolio of detection solutions for utility professionals and anyone who is breaking ground. The DD SMART utility locator series uses industry-leading digital signal processing to identify underground assets deeper, faster and more accurately than any other system.

DX Shield software allows you to gain a better understanding of task performance and site complexities with easy-to-use reports that provide a fast and convenient overview of product use, reducing utility strikes and saving direct repair costs and project downtime.

- Easy-to-use tracing system delivering high accuracy results without complication
- Trace utilities with confidence in environments with high utility density and complexity
- On-board locate alerts and automatic locate process help to reduce time spent locating buried utilities and prevents utility damage

### DD220

Part No. **LG850268**

- GPS, data and depth estimation
- Color graphic display with multi user alerts
- Bluetooth or USB connectivity for download, remote calibration verification and firmware updates
- Detection in Auto, Power, Radio, Transmitter and Sonde modes
- Compatible with the DA220 Signal Transmitters and Sonde range

### DD230

Part No. **LG850270**

- GPS, data, extended depth and tracing
- Color graphic display with multi user alerts
- Bluetooth or USB connectivity for download, remote calibration verification and firmware updates
- Detection in Auto, Power, Radio, Transmitter and Sonde modes
- Compatible with the DA230 Signal Transmitters and Sonde range

### Packages

#### DD220 SMART, Depth package

Part No. **LG6011593**

- Includes: DD220 SMART utility locator, DA220 1 watt signal transmitter, system carry bag

#### DD230 SMART, Depth package

Part No. **LG6011595**

- Includes: DD230 SMART utility locator, DA230 1 watt signal transmitter, system carry bag

#### DD220 SMART, Plumbers package

Part No. **LG6014160**

- Includes: DD220 SMART utility locator, Midi Sonde 8/33, DD220, DD230 locator bag





## DD100 Series Locators

### Safe and fast location of underground utilities.

The DD100 Series cable locators feature advanced automatic controls making the DD100 Series easy-to-use, requiring minimal user experience.

#### DD120

The DD120 cable locator is a simple, intuitive locator designed to detect and avoid buried utilities throughout the excavation phase. The DD120 automated pinpointing process improves the detection of utilities, reducing utility damage and improving workforce safety.

Use the DD120 in conjunction with a DA220 signal transmitter or range of accessories to achieve depth estimation, improved accuracy and application scope.

#### DD120 – 60 Hz

Part No. LG872939

- Depth detection up to 3 m (10 ft)
- Good-to-Go™ health check and start up test
- IP54 rating – protection from dust and water



#### DD130

The DD130 cable locator features additional tracing capabilities and increased depth detection in an easy, intuitive product. The DD130 delivers consistent and precise location capabilities for increased user confidence.

Use the DD130 in conjunction with a DA230 signal transmitter or range of accessories to achieve depth estimation, improved accuracy and application scope.

#### DD130 – 60 Hz

Part No. LG872941

- Extended trace range with additional 512 Hz, 640 Hz frequencies
- Signal current measurement
- Increased depth detection up to 10 m (33 ft)



## DD100 Series Locator Packages

#### Leica DD120 (60Hz), Depth

Part No. LG6014155

- Includes: DD120 Locator, DA220, 1 Watt Transmitter, System carry bag

#### Leica DD130 (60Hz), Depth

Part No. LG6014597

- Includes: DD130 Locator, DA230, 1 Watt Transmitter, System carry bag

#### Leica DD120 (60Hz), Plumbers

Part No. LG6014159

- Includes: DD120 Locator, Midi Sonde 8/33, DD120 D130 Locator Bag

TECHNICAL DATA	DD120	DD130
Auto	Power, Radio	Power, Radio
Transmitter Modes	32.768 (33) kHz, 8.192 (8) kHz	32.768 (33) kHz, 8.192 (8) kHz, 512 Hz, 640 Hz
Depth Range	Line: 0.3 m to 3 m / 1 ft to 10 ft Sonde: 0.3 m to 3 m / 1 ft to 10 ft	Line: 0.3 m to 3 m / 1 ft to 10 ft Sonde: 0.3 m to 9.99 m / 1 ft to 32.77 ft
Depth Accuracy*	10%	10%
Protection	IP54	IP54
Operating Temperature	-20 °C to +50 °C / -4 °F to +122 °F	-20 °C to +50 °C / -4 °F to +122 °F
Battery	6 × LR6 (AA) Alkaline	6 × LR6 (AA) Alkaline
Battery operating time**	15 h	15 h
Dimensions (H × W × D)	760 × 250 × 85 mm / 30 × 10 × 3.4 inches	760 × 250 × 85 mm / 30 × 10 × 3.4 inches
Weight with batteries	2.7 kg/6 lbs	2.7 kg/6 lbs

\*Depth to an undistorted signal

\*\*Constant use at 20 °C/68 °F

## DA Signal Transmitters

### Fully protected in the harshest conditions.

The DA signal transmitters apply a signal onto underground cables or pipes that may not carry a detectable signal. The DD cable locators can then be used to locate the signal from the DD signal transmitter. The DA signal transmitters are compact, robust and easy-to-use. They have been designed in conjunction with the DD cable locators to easily and accurately avoid, trace or locate buried cables and pipes.

#### DA220 Signal Transmitter

Part No. LG850272 – 1 Watt

Part No. LG850273 – 3 Watt

The DA220 Signal Transmitter is a simple, intuitive signal transmitter improving site safety during utility avoidance tasks. Four power level settings and three trace frequencies put you in control improving the detection of utilities.

- 1 Watt or 3 Watt options
- Compatible with the DD120 Locator



#### DA230 Signal Transmitter

Part No. LG850274 – 1 Watt

Part No. LG850275 – 3 Watt

The DA230 Signal Transmitter is a simple, intuitive signal transmitter designed to keep you safe during excavation tasks. Additional trace frequencies allow you to trace utility routes further and deeper. Four power level settings and five trace frequencies put you in control of utility avoidance or utility trace applications.

- 1 Watt or 3 Watt options
- Compatible with the DD130 Locator



TECHNICAL DATA	DA220	DA230
Induction Mode Frequencies	32.768 (33) kHz, 8.192 (8) kHz	32.768 (33) kHz, 8.192 (8) kHz
Induction Mode Power Output	Up to 1 Watt max	Up to 1 Watt max
Connection Mode Frequencies	131.072 (131) kHz, 32.768 (33) kHz, 8.192 (8) kHz	131.072 (131) kHz, 32.768 (33) kHz, 8.192 (8) kHz, 512 Hz, 640 Hz
Connection Mode Power Output* – 1 Watt Model – 3 Watt Model	Up to 1 Watt max Up to 3 Watt max	Up to 1 Watt max Up to 3 Watt max
Protection	IP67	IP67
Operating Temperature	-20 °C to +50 °C / -4 °F to +122 °F	- 20 °C to +50 °C / -4 °F to +122 °F
Battery	7.4V Li – Ion	7.4V Li – Ion
Battery operating time**	15 h	15 h
Dimensions (H × W × D)	250 × 206 × 113 mm (9.84 × 8.11 × 4.45 inches)	250 × 206 × 113 mm (9.84 × 8.11 × 4.45 inches)
Weight with batteries	2.38 kg (5.25 lbs)	2.38 kg (5.25 lbs)

\*Utility impedance of 300 Ohms

\*\*Defined at 20 °C (77°F) power level 2



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## Notes



# BUILDING A STRONG CASE.

Since 1842, we at CASE Construction Equipment have lived by an unwavering commitment to build practical, intuitive solutions that deliver both efficiency and productivity. We continually strive to make it easier for our customers to implement emerging technologies and new compliance mandates.

Today, our global scale combined with our local expertise enables us to keep customers' real-world challenges at the center of our product development. This focus has led to numerous innovations like Ride Control™, EZ-EH controls, blade shake, PowerLift™, over-center boom design and the peace of mind that only CASE ProCare provides.

Every CASE machine is backed by more than 300 North American dealer locations, thousands of OEM, remanufactured and all-makes parts, and flexible financing and insurance options that provide the kind of reliable, steadfast support you expect from a professional partner.

We are passionate about improving the lives of others, whether investing in our veterans or raising awareness about local infrastructure initiatives through Dire States. Our goal is to build both stronger machines — and stronger communities.

At the end of the day, we do what's right by our customers and our communities so that they can count on CASE.

**CaseCE.com**

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CASE Construction Equipment is biodiesel-friendly.

NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.



Always read the Operator's Manual before operating equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.