



**Machine Mountable 360° Detector  
with Clamp & Magnet  
Model No. 40-6791**

# Instruction Manual

*The 40-6791 is a versatile, construction tough laser receiver that can be mounted on bull-dozers, motor-graders, drag scrapers, motorized scrapers, skidsteer loaders, backhoes and excavators. The built in super bright display and battery pack makes this detector ideally suited for machine control applications.*





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## Kit Contents

### **Description Model No. 40-6791**

	<b><u>Qty.</u></b>
Machine Mountable 360° Detector with Clamp & Magnet	1
Ni-MH Rechargeable Battery Pack	1
Cable	1
Charger	1
Instruction Manual with Warranty Card	1
Hard Shell Carrying Case	1





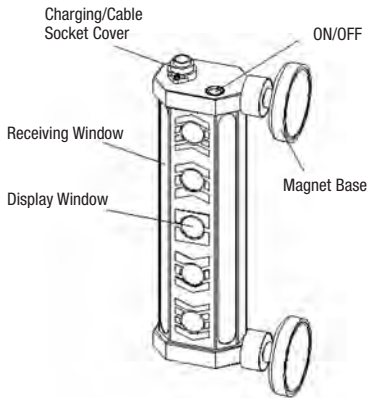
## 1. Technical Specifications

Detecting Range:	Up to 650' (200m)
Detecting Accuracy:	Fine: $\pm 3\text{mm}$ to $\pm 12\text{mm}$ Coarse: $\pm 5\text{mm}$ to $\pm 25\text{mm}$
Receiving Range:	10" (25cm) receiving window
Receiving Angle:	360°
Power Supply:	7.2V 3500mAH Ni-MH battery-pack
Battery Life:	Approx. 40 hrs. (rechargeable battery)
Operating Voltage:	12V and 24V
Charge time:	6 hrs.
Fastening Device:	Clamp or magnet
Dimensions:	14.88" x 4.72" x 8.07" (378 x 120 x 205mm) with clamp 14.80" x 3.14" x 5.86" (376 x 80 x 149mm) with magnet
Weight:	6.8 lb. (3.1kg)
Working temperature:	-4°F to +122°F (-20°C to +50°C)
Additional functions:	Memory function of last received signal will be displayed. Powers off automatically when voltage is low.
Accessories:	Clamp (min 1.57" (40mm) circular pipe) or magnet. Cable for connecting to 12V or 24V external battery.





## 2. Location of Parts/Components



**Charging Light:** ON: Shows the detector is charging  
OFF: Shows the detector is not charging



**Up LED (red) Lights:** Indicates the laser beam is above the on grade indicator

**On Grade LED (green) Light:** Indicates the laser beam is level with the on grade indicator

**Down LED (red) Lights:** Indicates the laser beam is under the on grade indicator




**Power and Coarse/Fine Accuracy button:** Turn on/off the power and change from coarse detecting to fine detecting







### 3. Operating Instructions

This product can be used to detect any type of red rotating laser.

To turn on the detector, press  key, each LED will blink from top to bottom once. The detector is ready to begin detecting the laser beam. The detector is in coarse mode when first turned on.

Press the  key again to switch to the fine mode.

Press the  key for 4 seconds and the LEDs will blink from the center to two sides. The detector is now turned off.



After the power is turned on, to switch to the fine mode press the power key again. The two LEDs inside will blink three times simultaneously. The detector is now in fine mode.










To switch back to coarse mode, press the power key again. The two LEDs outside will blink three times simultaneously. The detector is now in coarse mode.





The LEDs will show the following when detecting the laser beam:

LEDs are all off	The first up red LED blinks fast	The second up red LED blinks fast	The green LED blinks fast	The first down red LED blinks fast	The second down red LED blinks fast	The LED blinks slower
						
No laser beam is detected	The laser beam is up	The laser beam is up	The laser beam is level with the on grade LED (green) indicator	The laser beam is down	The laser beam is down	The last receiving position has been memorized by the detector. The detector will keep blinking until it receives another signal or is turned off.

**Note:** When the voltage is low the detector will power off automatically and the unit needs to be charged.





### How to Change from Magnet to Clamp

- To remove the magnet, use a 2mm Allen set screw wrench to loosen the magnet. Turn the magnet counter-clockwise to remove.
- To install the clamp, open the clamp and set clamp over the thread stud.
- Place a washer onto the thread stud and a nut onto the washer.
- Tighten with your fingers and then use a 5/8" socket or open end wrench to tighten.
- Repeat to remove magnet and install clamp on other side.





## Accessories

Connect the 40-6791 to the 12V or 24V battery cable.



To charge the rechargeable battery use the AC adapter. The charging time is 6 hours.



The remote display 40-6792 is an optional accessory for this detector. It can be connected to the detector with a cable. Installing the remote display inside the cab will allow the operator to view the five indicating arrows up close rather than on the detector.



## Detector Maintenance

- Keep the unit, particularly the reception window, clean. If it does get dirty, use a cloth to wipe it clean.

