

Spectra Precision DG613

Spectra Precision DG613 Pipe Laser User Manual

Model: DG613

1. INTRODUCTION

The Spectra Precision DG613 Pipe Laser is designed for efficient, accurate, and reliable pipe laying operations. It provides full functionality over a distance of 500 feet (150 m) from a single setup between manholes. The RC803 Remote Control offers comprehensive control, utilizing infrared light for in-pipe use and radio communications for over-the-top setups. The system features flexible power options, including 40 hours of operation with NiMH rechargeable batteries and 50 hours with alkaline batteries. Its large graphical user interface is easily visible in manholes, making all functions accessible via a simple menu, which reduces the learning curve.

2. SAFETY INFORMATION

This device is a Class 2 laser product. Avoid direct eye exposure to the laser beam. Never look directly into the laser aperture. Always operate the device in accordance with local safety regulations. Ensure batteries are handled and charged correctly to prevent hazards. Keep the device away from children and unauthorized personnel.

3. COMPONENTS INCLUDED

The Spectra Precision DG613 Pipe Laser kit includes the following components:

- DG613 Pipe Laser Unit
- RC803 IR/Radio Remote Control
- 956 Optically Enhanced Target
- 1248 Trivet Plate (8 in / 200mm)
- Worldwide Charger
- Q104667 Rechargeable NiMH Pack
- Carrying Case

4. PRODUCT OVERVIEW



This image displays the Spectra Precision DG613 Pipe Laser unit alongside its RC803 Remote Control. The DG613 laser unit is yellow and grey, featuring a digital display, control buttons (including M, E, ESC, directional arrows, and ON/OFF), and a handle. The RC803 remote control, also yellow and grey, mirrors many of the laser unit's controls and includes its own display.

5. SETUP

5.1. Battery Installation

The DG613 operates with either the included NiMH rechargeable batteries or standard alkaline batteries. To install, open the battery compartment, insert the batteries according to polarity markings, and secure the cover. Ensure the NiMH pack is charged using the provided worldwide charger before first use.

5.2. Mounting the Laser

For stable operation, place the DG613 Pipe Laser on the 1248 Trivet Plate. Position the laser securely within the pipe or on a stable surface, ensuring it is level before beginning operations.

6. OPERATION

6.1. Power On/Off

Press the **ON/OFF** button on the DG613 unit or the RC803 remote control to power the device on or off.

6.2. Remote Control Usage

The RC803 Remote Control communicates via infrared for in-pipe applications and radio for over-the-top setups. Use the remote to access all functions displayed on the graphical user interface.

6.3. Graphical User Interface

The large graphical display on both the laser unit and the remote provides intuitive access to all settings and functions. Navigate menus using the directional arrows and confirm selections.

6.4. Advanced Functions

Utilize **Line Set**, **Line Scan**, and **Line Alert** features for precise alignment and monitoring during pipe laying. Refer to the on-screen menu for detailed instructions on activating and configuring these functions.

6.5. Setting Grade/Slope

Use the **M** and **E** buttons (or corresponding remote controls) to adjust the laser's grade or slope. The display will show the current grade setting.

7. MAINTENANCE

7.1. Cleaning

Regularly clean the laser unit and remote control with a soft, dry cloth. Ensure the laser aperture and display screen are free from dust and debris. Do not use abrasive cleaners or solvents.

7.2. Battery Care

Recharge NiMH batteries as needed using the provided charger. Store batteries in a cool, dry place. Remove batteries if the unit will not be used for an extended period.

7.3. Storage

Store the DG613 Pipe Laser and its components in the carrying case when not in use to protect them from damage and environmental elements.

8. TROUBLESHOOTING

8.1. Laser Not Powering On

Check battery charge level and ensure batteries are correctly installed. If using NiMH, confirm they are charged. If using alkaline, ensure they are fresh.

8.2. Remote Control Not Responding

Verify the remote's batteries are functional. Ensure there is a clear line of sight for IR communication or that the radio link is established for over-the-top use. Check for obstructions.

8.3. Accuracy Issues

Ensure the laser is placed on a stable, level surface. Verify that the unit has self-leveled correctly. If issues persist, contact customer support for calibration checks.

9. SPECIFICATIONS

Brand	Spectra Precision
Model	DG613
Operating Distance	500 ft (150 m)

Power Source	Battery Powered
Battery Type	NiMH rechargeable (included), Alkaline (compatible)
NiMH Operating Time	40 hours
Alkaline Operating Time	50 hours
Voltage	6 Volts
Item Weight	3 Kilograms (6.6 pounds)
Product Dimensions	25 x 10.5 x 21 inches
Operation Mode	Automatic
Included Components	DG613 Pipe Laser, RC803 Remote Control, 956 Target, 1248 Trivet Plate, Worldwide Charger, NiMH Pack, Carrying Case

10. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your product or visit the official Spectra Precision website. For technical support, service, or replacement parts, please contact Spectra Precision customer service.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question