

FIRECORE F114G Self Leveling Cross Line Laser



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FIRECORE

FIRECORE F114G Self Leveling Cross Line Laser



Product Information

Specifications

- Power supply: 3 AA (1.5V) size batteries (4.5V DC)
- Laser Wavelength: 505-520nm
- Self-leveling range: 40m/130ft
- Accuracy: Class II laser, maximum laser output
- Working range (with detector): Not specified
- Operating time: Not specified
- Operating temperature: Not specified
- Storage temperature: Not specified

Product Usage Instructions

1. Power Supply

Insert 3 AA (1.5V) size batteries into the designated compartment to provide a power supply of 4.5V DC.

2. Laser Operation

The laser emits a green light with a wavelength between 505-520nm. Ensure the area is clear and free from obstructions before activating the laser.

3. Self-Leveling

Place the device on a flat surface within the self-leveling range of 40m/130ft for accurate results.

4. Accuracy

For precise measurements, ensure the device is calibrated and set up correctly. Follow the provided guidelines for accurate readings.

5. Operating Temperature

Operate the device within the specified operating temperature range to maintain optimal performance.

FAQ

- **Q: What should I do if I encounter problems with the self-leveling feature?**
 - A: Check if the device is placed on a flat surface within the specified self-leveling range. Make sure there are no external factors affecting the self-leveling mechanism.
- **Q: How can I extend the operating time of the device?**
 - A: Ensure fresh batteries are used and consider turning off the device when not in use to conserve power.
- **Q: Can the device be used in extreme temperatures?**
 - A: Refer to the specified operating temperature range in the manual. Avoid exposing the device to temperatures outside this range to prevent damage.

SPECIFICATIONS

COMPONENT	SPECIFICATIONS
Power supply	3 <u>AA</u> (1.5V) size batteries (4.5V DC)
Laser Wavelength	505-520nm, Class II laser, maximum laser output<1 mW
Self-leveling range	$\pm 4^{\circ}$
Accuracy	$\pm 3\text{mm}/10\text{m}$ ($\pm 1/9$ in at 33 ft.)
Working range (with detector)	40m (60m)
Operating time	Approx. 4.5 hours
Operating temperature	$-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$
Storage temperature	$-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$

*Important: Under unfavourable conditions, such as in bright sunlight or when targeting poorly reflecting or very rough surfaces, the tool's measuring range and accuracy will be reduced

SAFETY INSTRUCTIONS



WARNING

- Do not remove or deface any product labels.
- Avoid direct eye exposure. The laser beam can cause flash blindness.
- Do not operate the tool around children or allow children to operate the tool.
- Do not place the tool in a position that may cause anyone to stare at the laser beam, whether intentionally or unintentionally.
- Do not use on surfaces, such as sheet steel, that have shiny, reflective surfaces. The shiny surface could reflect the beam back at the operator.
- Always turn the laser tool off when not in use. Leaving the tool on increases the risk of someone inadvertently staring into the laser beam.
- Do not attempt to modify the performance of this laser device in any way. This may result in a dangerous exposure to laser radiation.
- Do not attempt to repair or disassemble the green beam self-leveling cross line laser. If unqualified persons attempt to repair this product, serious injury may occur. Any repair required on this laser product should be performed only by qualified service personnel.

- Use of other accessories that have been designed for use, with other laser tools could result in serious injury.
- Do not place or store tool under extreme temperature conditions.

UNPACKING

When unpacking the box, do not discard any packing materials until all of the contents are accounted for:

- a. Open the carton to locate the following:
 - Self-leveling cross-line laser with magnetic pivoting base
 - 3 X AA alkaline batteries
 - Carry Pouch
 - Operator's manual
- b. Carefully lift the cross-line laser out of the carton and place it on a stable, flat surface.

DESCRIPTION

KNOW YOUR GREEN SELF-LEVELING CROSS LINE LASER

This self-leveling cross line laser is highly versatile. It can be hand-held, leveled on a horizontal surface or mounted on a tripod or laser pole.



PARTS	DESCRIPTION
1	Operation Button
2/3	Vertical & Horizontal Laser Window
4	Power/Lock
5	1/4" Threaded Mounting Hole
6	Fine Adjustment Knob
7	Integrate Magnetic Bracket
8	Battery Compartment

OPERATION

TO INSTALL BATTERIES

The battery compartment holds three “AA” batteries.

- a. Remove the battery compartment from the laser and open the battery compartment
- b. Insert four new “AA” alkaline batteries, following the polarity (+/-) as indicated on the inner of the compartment.
- c. Close the battery compartment and insert it back into the laser tool

NOTE:

- Always turn off the tool before installing or replacing the batteries.
- Remove the batteries from the tool when not using it for extended periods.
- The 3 AA batteries should match each other in brand and type.
- Do not mix old and new batteries.
- Remove depleted batteries immediately, and dispose of them according to the laws and regulations governing your community.

TO TURN THE GREEN BEAM SELF-LEVELING CROSS LINE LASER ON AND OFF

The power switch is located at the bottom of left side of the tool.

- a. To turn the self-leveling cross line laser on, slide the power switch in the direction of the “ON” arrow.

WARNING

When turning on the self-leveling cross-line laser, always be aware of protecting your eyes and the eyes of those around you. Never point the self-leveling cross line laser at anyone’s face, including your own.

- b. To turn the tool off, slide the switch in the direction of the “OFF” arrow.

LASER LINE PROJECTION MODES

Your self-levelling cross-line laser has three laser-projection modes. To select a specific laser-projection mode, press the top button of the tool until you reach the desired projection mode. This laser tool defaults to the horizontal laser line when it is turned on.

To choose a projection mode, press the top button:

- a. Slide the power switch to “ON” arrow, get the horizontal laser line;
- b. Single press the top button to get the vertical laser line.
- c. Press the top button again to get the cross-line pattern (both horizontal and vertical lines).

SELF-LEVELING MODE

Your self-levelling cross-line laser has two working modes: self-leveling mode and lock (manual) mode. In self-leveling mode, the tool will level itself if it is within $\pm 4^\circ$ of the horizontal.

- a. Place the self-levelling cross-line laser on a flat, smooth surface that is within $\pm 4^\circ$ of horizontal.
- b. Turn the tool on by sliding the power switch in the direction of the “ON” arrow. The self-leveling cross-line laser will automatically level within 3 seconds.
- c. Press the top button until the desired laser-projection mode is achieved and the laser line is projected from the laser aperture.
- d. If the surface on which the self-levelling cross-line laser is placed exceeds $\pm 4^\circ$ from horizontal, the laser line will blink as an alarm. In this event, adjust the angle of the surface slightly.
- e. To turn off the laser lines, slide the switch in the direction of the “OFF” arrow.

MANUAL MODE

This mode cannot be used to perform horizontal or vertical levelling, because the laser lines are no longer self-leveling.

- a. Keep the power switch to the “OFF” position and long press the top button for 3 seconds. The laser lines are now locked and are no longer self-levelling.
- b. Press the top button repeatedly to change the laser-projection mode.
- c. Slope your self-leveling cross laser to project a straight line for reference. In this mode, the laser lines are projected continuously and the laser line flashes every 5 seconds, even if the slope angle exceeds 4° .
- d. To turn the laser off, long press the top button until the laser line shuts off.

PULSE MODE

When working with the tool outdoors, the strong sunlight will make the laser lines hard to identify. Switch to receiver (pulse) mode: the laser lines will now pulsate with high frequency. When received by the laser receiver (sold separately), the laser can be detected up to 60m(197ft).

To switch to receiver (pulse) mode:

Slide the pendulum to the Unlocked Position, then press and hold the top button for 3 seconds to turn on the pulse mode, the indicator lights up in red. Application: When the pulse mode is turned on, the laser tool can be used with a laser receiver to work in brighter conditions or a larger working distance.

Note:

- When used with a receiver, it's necessary to turn on the pulse mode
- It is compatible with Firecore Line Laser Receiver only.

APPLICATIONS

Your green beam self-leveling cross line laser can be hand-held for point marking and simple alignment by sight, or it can be used to make a "chalk line" by using the lock mode. It also can be mounted on a standard 1/4" tripod to project laser lines on walls. It is ideal for the following applications:

- Hanging pictures, photos, or artwork on walls
- Wallpapering and stencil work
- Framing doors and windows
- Installing electrical wiring and pipes
- Mounting wall fixtures, electrical outlets, switches and lighting
- Installing a drop ceiling, framing
- Electrical and plumbing to metalworking and drywall
- Installing closets or cabinet installation
- Laying tile and flooring

MAINTENANCE

This self-leveling cross-line laser has been designed to be a low-maintenance tool. However, in order to maintain its performance, you must always follow these simple directions:

- a. Avoid exposing the tool to shock, continuous vibration or extreme hot or cold temperature.
- b. Always store the tool indoors.
- c. Always keep the tool free of dust and liquids. Use only a clean, soft cloth for cleaning. If necessary, slightly moisten the cloths with pure alcohol or a little water.
- d. Do not disassemble the green beam self-leveling cross-line laser; this will expose the user to hazardous radiation exposure.
- e. Do not attempt to change any part of the laser lens.
- f. Remove the batteries from the tool and store it in a cool dry location.
- g. After you have finished using the tool, always make sure that the switch is in the off position.

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
The laser line projection is weak.	Batteries are weak.	Replace with new batteries.
The laser line is hard to see.	The tool is too far from the target.	Move the tool closer to the target.
	The surrounding is too bright.	Switch to receiver(pulse) mode and find the laser line with FD30 laser receiver (sold separately).
Laser line is not projected.	No batteries installed or batteries are depleted.	Install new batteries correctly
	The power switch is not pushed to the "ON" position.	Slide the power switch to the "ON" position.
Laser line flickers for alert.	The surface where the tool has been placed is uneven or the tool is out of its automatic self-leveling range.	Place the tool on a more level surface (within $\pm 4^\circ$).
		Set the tool to its lock mode.

WARRANTY

We are confident in the quality of our products and offer outstanding guarantees for professional users. This statement is in addition to and in no way prejudices your contractual rights as a professional user to your statutory rights as a private non-professional user. We warrant our laser level(s) against faults in materials and/or workmanship for one year from the date of purchase, provided that

- Proof of purchase is produced.
- Service/repairs have not been attempted by unauthorized persons;
- The product has been subject to fair wear and tear;
- The product has not been misused;


Defective products will be repaired or replaced, free of charge or at our discretion if sent together with proof of purchase to our authorized distributor(s.) This Warranty does not cover faults caused by accidental damage, unfair wear and tear, and use other than in accordance with the manufacturers' instructions or repair or alteration of this product not authorized by us. Repair or replacement under this Warranty does not affect the expiry date of the Warranty.

- The customer is responsible for the correct use and care of the tool. Moreover customer is completely responsible for periodically checking the accuracy of the laser, and therefore for the calibration of the tool. You can enjoy 12 months limited warranty but up to 24 months longer warranty if you sign up as a member through the product registration. Please scan the QR code above to activate your priority.



Questions, problems, missing parts? Before returning to your retailer, contact us by email:
support@Firecoretools.com

Documents / Resources

 <p>FIRECORE</p> <p>40MM 130FT SELF-LEVELING CROSS LINE LASER</p> <p>MODEL F114G</p> <p><small>For more information, please visit our website at www.firecoretools.com</small></p>	<p>FIRECORE F114G Self Leveling Cross Line Laser [pdf] User Manual</p> <p>F114G Self Leveling Cross Line Laser, F114G, Self Leveling Cross Line Laser, Cross Line Laser, Line Laser, Laser</p>
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References

- [User Manual](#)

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