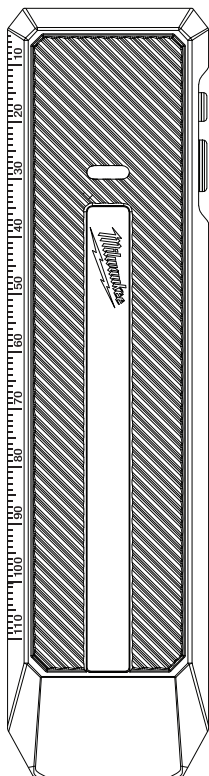




OPERATOR'S MANUAL



Cat. No.
MIR FLF1300

RECHARGEABLE FLAT FLASHLIGHT W/ GREEN LASER



WARNING



To reduce the risk of injury, user must read and understand operator's manual.

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING **READ AND UNDERSTAND ALL INSTRUCTIONS.** Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS

1. **Before using, read this operator's manual, your battery pack and charger operator's manual, and all labels on the battery pack, charger and light.**
2. **Read and understand all the instructions before using the light and laser.**
3. **Avoid dangerous environments.** Do not expose to or charge in rain, moisture, snow, damp, or wet locations. Do not use battery or charger in the presence of explosive atmospheres (gaseous fumes, dust or flammable materials). Sparks may be generated when inserting or removing battery, possibly causing fire.
4. **Only charge in a well ventilated area and within the recommended ambient charging temperature range.** Do not block vents; keep them clear for proper ventilation. Do not allow smoking or open flames near a charging battery. Vented gases may explode.
5. **Maintain charger cord.** Pull plug rather than cord to unplug. Never carry charger by its cord. Keep cord from heat, oil and sharp edges. Ensure cord will not be stepped on, tripped over, damaged, or stressed. Do not use charger with damaged cord or plug. Replace damaged cords immediately.
6. **Do not burn, incinerate, or expose batteries to fire or excessive temperatures above 130°C.** Batteries may explode. Toxic fumes and materials are created when batteries are burned.
7. **Do not crush, drop, shred, modify, or damage battery. Always securely contain batteries during transport.** Do not use a battery that has received a sharp blow, been dropped, run over, or damaged in any way (e.g., pierced with a nail, hit with a hammer, stepped on). Do not use or charge batteries that appear damaged or swollen, or are not functioning properly. Damaged or modified batteries may exhibit unpredictable behaviour.
8. **Use only with suitable power supply/charger.**
9. **Always unplug product before cleaning or maintenance. Do not allow water to flow into openings.**
10. **Do not disassemble or attempt to repair batteries or chargers.** No internal serviceable parts. Take batteries/chargers that have been damaged, broken, or need repair to a **MILWAUKEE®** service facility to ensure the safety of the product is maintained.
11. **Battery chemicals cause serious burns.** Never allow contact with skin, eyes, or mouth. If a damaged battery leaks battery chemicals, use rubber or neoprene gloves to dispose of it. If skin is exposed to battery fluids, wash with soap and water and rinse with vinegar. If eyes are exposed to battery chemicals, immediately flush with water for 20 minutes and seek medical attention.
12. **Do not short circuit.** A short-circuited battery may cause fire, personal injury, and product damage. A battery will short circuit if a metal object makes a connection between the positive and negative contacts on the battery. Do not place a battery near anything that may cause a short circuit (e.g., coins, keys, nails, or small metal objects in a pocket, toolbox, or drawer).
13. **Do not allow fluids to flow into battery.** Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach-containing products, etc., can cause a short circuit. Do not use batteries that have been exposed to these types of fluids.
14. **Store the battery and charger in a cool, dry place.** Do not store where temperatures may exceed 50 °C such as in direct sunlight, a vehicle, or metal building during the summer.
15. **To reduce the risk of injury, close supervision is necessary** when an appliance is used near children.
16. **Store idle light out of reach of children.** Warm lights can become hazardous in the hands of children.
17. **Know the light.** Read this manual carefully to learn the light's applications and limitations as well as potential hazards associated with this type of light.
18. **Always use common sense and be cautious when using tools.** It is not possible to anticipate every situation that could result in a dangerous outcome. Do not use this tool if you do not understand these operating instructions or you feel the work is beyond your capability; contact **MILWAUKEE®** Tool or a trained professional for additional information or training.
19. **Not for fall protection.** Clip is for mounting/securing light only; do not use for climbing or hanging other objects.
20. **Maintain labels and nameplates.** These carry important information. If unreadable or missing, contact a **MILWAUKEE®** service facility for a replacement.
21. **For indoor use only.**

ADDITIONAL BATTERY SAFETY RULES

⚠ WARNING To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger in fluid or allow a fluid to flow inside them. Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach-containing products, etc., can cause a short circuit.

⚠ WARNING Do not charge non-rechargeable batteries.

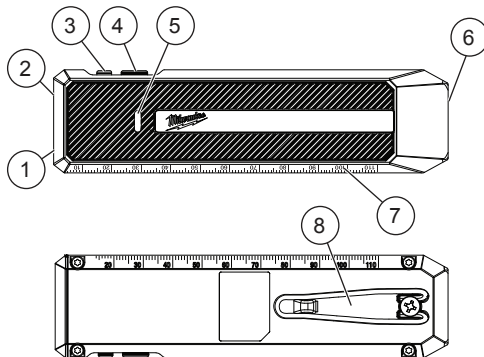
SPECIFICATIONS

Cat. No.	MIR FLF1300
Laser	Class 2
Wavelength	510–530 nm
Beam Divergence	1.5 mrad
Pulse Duration	1.1 μ s
Points Max Power	$P_{AVG} \leq 1$ mW
USB Input Volts	5 V DC
USB Input Amps	0.1–1 A
Rated Power	14 W
Rated Volts	4.2 V
Max Lumens	1300 lm
IP Rating	IP67
Charging Temperature	5°C to 50°C
Operating Temperature	-17°C to 50°C

SYMBOLLOGY

	Volts
	Direct Current
	Read Operator's Manual
	Power Button
	Universal Serial Bus (USB)
	WARNING Risk of Fire, Injury, and Product Damage
	CAUTION Surface is hot. Avoid Contact.
	CAUTION Do not stare at the operating light source.
	LASER RADIATION DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT
	Class III appliance
	The product is only suitable for indoor use. Never expose the product to rain.
	Regulatory Compliance Mark (RCM). This product meets applicable regulatory requirements.
	Do not dispose of electric tools together with household waste material. Electric tools and electronic equipment that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

FUNCTIONAL DESCRIPTION



- | | |
|------------------------|----------------------|
| 1. Laser aperture | 5. Battery indicator |
| 2. Light lens | 6. USB port |
| 3. Laser on/off button | 7. Ruler |
| 4. Power button | 8. Belt clip |

RECHARGEABLE FLAT FLASHLIGHT W/ GREEN LASER

WARNING Recharge only with the charger specified for the battery. For specific charging instructions, read the operator's manual supplied with the charger and battery.

Charging the Battery

1. Plug the USB cable into a power source such as an AC wall adaptor, computer or car port.
2. Lift the cover to expose the USB-C port. Insert the USB-C cable into the port. Users may experience longer charge times from laptops and other power sources. Keep the USB port rubber cover closed when not in use.

NOTE: Always close the USB-C cover when light is not charging to maintain dust and moisture protection.

3. The battery indicator will display the charging status:
 Red Pulsing: Charging, 0-49% charged
 Yellow Pulsing: Charging, 50-99% charged
 Green Solid: 100% charged
 Red Solid: Hot Battery
 Red/Green Flashing: Cold, Wet, or Faulty

NOTE: If the light continues to flash red and green, the battery may be cold, faulty, or the battery did not fully charge after 12 hours. If the light is solid red, the battery is too hot. Allow the battery to cool down, warm up, or dry out. Turn the light on or plug in for charging. If the problem persists, contact a MILWAUKEE® service facility.

OPERATION

CAUTION To reduce the risk of injury, do not stare at the operating light source. To avoid damage/discoloration to surfaces due to high temperatures, do not set the light lens-down. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

WARNING The device produces visible laser beams, which are emitted from the tool.

- **Laser light**-Do not stare into beam or view directly with optical instruments. Do not point laser light at others. Laser light can cause eye damage.
- Do not aim laser pointers at any person, pet, vehicle, or aircraft directly, or through reflections by mirrors or other shiny objects.
- To reduce the risk of injury or temporary effects on vision, do not look directly into the laser when it is on.

Operating the Flashlight

The flashlight has a dual function power button ①.

To turn on the flashlight press the power button ①.

To cycle through high, medium, and low modes, hold down the power button ①. Release the button when the desired mode is reached.

To activate BOOST mode for 30 seconds, quickly press the power button ① twice. To deactivate BOOST mode, quickly press the power button ① twice again. The tool will go back to the selected brightness setting. BOOST mode is not available at low states of charge. The battery indicator will flash white 3 times to indicate BOOST mode is unavailable.

NOTE: The light will default to the selected brightness setting the next time it is turned on. The battery indicator will display the battery capacity:

Red Flashing: 0-3% remaining

Red Solid: 4-9% remaining

Yellow Solid: 10-49% remaining

Green Solid: 50-100% remaining

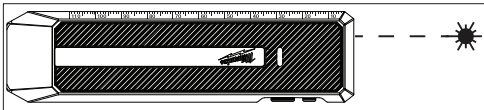
If the light experiences **over-temperature** or **under-temperature** conditions, it will automatically reduce light output to protect the product.

Once the temperature returns to normal, switch the light off and then on again to restore normal operation.

Operating the Laser

CAUTION To reduce the risk of injury, do not leave the tool unattended while the laser is on.

To turn the laser on/off, press the laser on/off button.



MAINTENANCE

WARNING To reduce the risk of injury, always unplug product and remove from the charger before performing any maintenance. Never disassemble the tool, battery pack, or charger. Contact a **MILWAUKEE®** service facility for ALL repairs.

The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced.

Maintenance and Storage

Do not expose the product to water or rain, or allow them to get wet. This could damage the tool. Do not use oil or solvents to clean or lubricate the tool. The plastic casing will become brittle and crack, causing a risk of injury.

Store product at room temperature away from moisture. Do not store in damp locations where corrosion of terminals may occur. Permanent capacity loss can result if the product is stored for long periods of time at high temperatures (over 50°C). Ensure the battery is fully charged before putting in long-term storage. Charge once a year if the product is not in use.

Cleaning

Clean dust and debris from any vents. Keep tool clean, dry and free of oil or grease. Use only mild soap and a damp cloth to clean, since certain cleaning agents and solvents are harmful to plastics and other insulated parts. Some of these include petrol, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia and household detergents containing ammonia. Never use flammable or combustible solvents around tools.

Disposing of **MILWAUKEE®** Li-Ion Battery

The battery of this luminaire is not replaceable; when the battery reaches its end of life the whole luminaire shall be taken out of service. **MILWAUKEE®** Li-Ion batteries are more environmentally friendly than some other types of batteries. Always dispose of the battery according to federal, state and local regulations. Contact a local recycling agency for recycling locations. Even discharged batteries contain some energy therefore before disposing, ensure battery has been discharged as much as possible.

ACCESSORIES

WARNING Use only recommended accessories. Others may be hazardous.

For a complete listing of accessories, go online to milwaukeeetool.com.au / milwaukeeetool.co.nz or contact an authorised distributor.

WARRANTY - AUSTRALIA and NEW ZEALAND

Please refer to Australian and New Zealand warranty supplied with tool. This warranty applies only to product sold by authorised dealers in Australia and New Zealand.

SERVICE - AUSTRALIA and NEW ZEALAND

MILWAUKEE® prides itself in producing a premium quality product that is Nothing But Heavy Duty™. Your satisfaction with our products is very important to us! If you encounter any problems with the operation of this tool, please contact your authorised **MILWAUKEE®** dealer.

For a list of **MILWAUKEE®** dealers, guarantee or service agents please contact **MILWAUKEE®** Customer Service or visit our website.

(Australia Toll Free Telephone Number 1300 645 928)

(New Zealand Toll Free Telephone Number 0800 645 928)

or visit milwaukeetool.com.au/milwaukeetool.co.nz.

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DESIGNED BY MILWAUKEE ELECTRIC TOOL CORP.