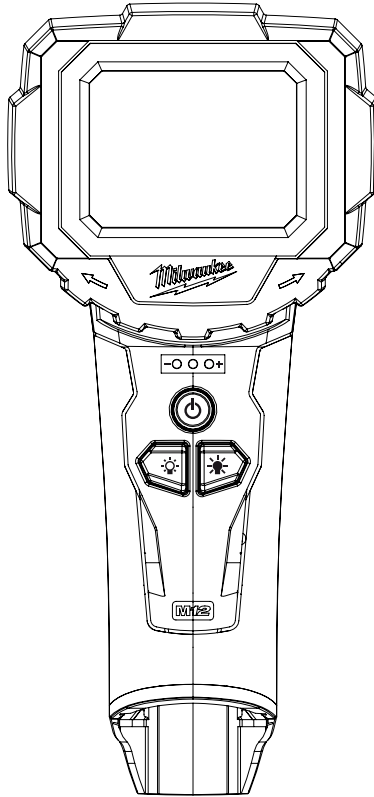




## OPERATOR'S MANUAL




**Cat. No.  
M12 IC**

### **M-SPECTOR 360™ ROTATING INSPECTION SCOPE**

**TO REDUCE THE RISK OF INJURY, USER MUST READ AND UNDERSTAND OPERATOR'S MANUAL.**

## GENERAL POWER TOOL SAFETY WARNINGS

 **WARNING READ ALL SAFETY WARNINGS AND ALL INSTRUCTIONS.**  
Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. *Save all warnings and instructions for future reference*

### WORK AREA SAFETY

- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- **Do not operate power tool in an area where it could contact electrical wiring or an electrically charged object.** Contact with a "live" wire or object will make exposed metal parts of the tool "live" and shock the operator.
- **Do not operate power tool near moving machinery.** The cable can be tangled in moving parts, pulling in the power tool and your hands and arms.
- **Do not use near any heat sources** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

### ELECTRICAL SAFETY

- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock. Dry hands before turning tool on or off and before removing or installing the battery pack.

### PERSONAL SAFETY

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.

### POWER TOOL USE AND CARE

- **This Inspection Scope is not intended for medical use or personal inspection.**
- **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool operation. Do not use if power tool smokes or gives off fumes. If damaged, have the power**

tool repaired before use. Many accidents are caused by poorly maintained power tools.

- **Use the power tool, accessories and tool bits etc., in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation. Only use accessories specifically recommended for this tool. Others may be hazardous.
- **Clean only with dry cloth.** Certain cleaning agents and solvents are harmful to plastics and other insulated parts. Some of these include: gasoline, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia and household detergents containing ammonia. Clean dust and debris from vents. Keep the apparatus handle clean, dry and free of oil or grease.

### BATTERY TOOL USE AND CARE

- **Always remove the battery pack before cleaning.**
- **This tool is designed to be powered by a 12 volt MILWAUKEE® battery pack.** Do not attempt to use with any other voltage or power supply.
- **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- **When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- **Under abusive conditions, liquid may be ejected from the battery, avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.





### SERVICE

- **Contact the store where the product was originally purchased or one of our authorised MILWAUKEE® service centres for all repairs. Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
- **Never disassemble the power tool or try to do any rewiring on the power tool's electrical system.**

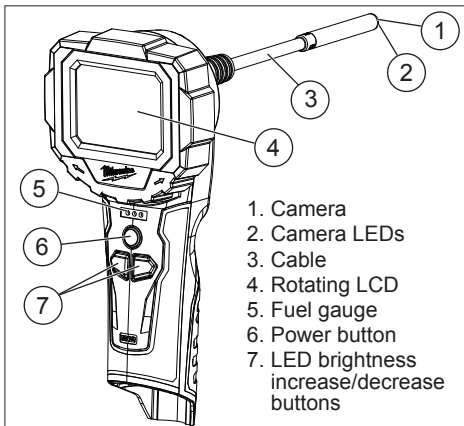
### SPECIFIC SAFETY RULES

- **Maintain labels and nameplates.** These carry important information. If unreadable or missing, contact the store where the product was originally purchased or one of our authorised MILWAUKEE® service centres.

## SYMBOLOLOGY

	User must read operator's manual
	Wear eye protection
	To prevent electric shock, do not allow product to contact live electrical parts
	Direct Current

## FUNCTIONAL DESCRIPTION



## SPECIFICATIONS

Cat. No.	Volts DC	Cable Length
M12 IC	12	2.7 m

## ASSEMBLY

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

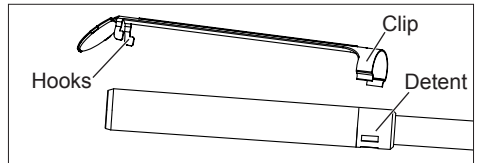
### Inserting/Removing the Battery

To **remove** the battery, push in the release buttons and pull the battery pack away from the tool.

To **insert** the battery, slide the pack into the body of the tool. Make sure it latches securely into place.

### Attaching/Removing Accessories

To attach an accessory, hook the two front hooks over the front of the camera. Press the clip over the back end of the camera to snap it into the detents. To remove, pull up on the clip and then unhook the accessory.



## OPERATION

**WARNING** To reduce the risk of injury, wear safety goggles or glasses with side shields. Always remove battery pack before changing accessories or making adjustments.

### Turning On/Off

Press the Power  button to turn the tool on. Press and hold the Power  button to turn the tool off.

### Sleep Mode

The tool will shut off automatically if unused for 5 minutes. To reset, press the Power button again.

### Fuel Gauge

To determine the amount of charge left in the battery, turn on the tool. The Fuel Gauge will light up for 2-3 seconds.

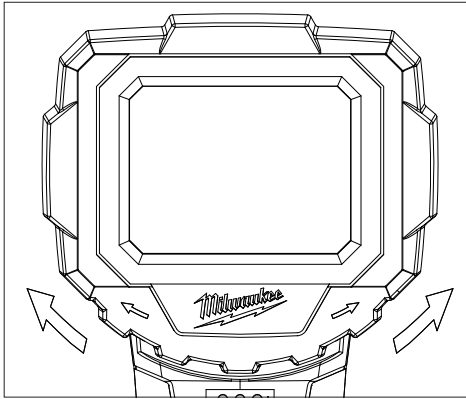
To signal the end of charge, 1 light on the fuel gauge will flash for 2-3 seconds.

### Camera LED

The camera LEDs can be adjusted to 4 levels of brightness and turned off. Press the camera LED brightness increase and decrease buttons to change the level of brightness or turn it off.

## Rotating Screen

To rotate the screen for ease of use, grasp the LCD housing and turn clockwise or counter clockwise. The screen can be rotated approximately 270°.



**WARNING** To reduce the risk of explosion, electric shock and property damage, always check the work area before beginning a job. Do not allow cable to contact electrical, chemical, or moving hazards.

**Behind walls:** Shut off circuit breakers to the entire area.

**Inside Pipes:** Ensure there is no electrical charge to the pipes before beginning inspection. Do not allow liquid to flow down cable and into tool.

**Auto use:** Turn off the engine and allow to cool before beginning inspection. Do not allow the camera or cable to contact oil, gas, or other corrosive materials.

**CAUTION** To reduce the risk of damage to the tool, do not use excessive force or “kink” the cable. Do not use in areas where camera and cable will contact corrosive or oily substances.

**Do not use the cable to clear clogs or move obstructions. This is not a drain cleaner!**

## Using the Inspection Scope

1. Adjust the cable to best fit the opening.
2. After checking the workspace for hazards, insert the cable and adjust the lighting as necessary.

## MAINTENANCE

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

### Maintaining Tool

Keep your tool, battery pack and charger in good repair by adopting a regular maintenance program. After six months to one year, depending on use, return the tool, battery pack and charger to the store where the product was originally purchased or one of our authorised MILWAUKEE® service centres for:

- Lubrication
- Mechanical inspection and cleaning (gears, spindles, bearings, housing, etc.)
- Electrical inspection (battery pack, charger, motor)
- Testing to assure proper mechanical and electrical operation

If the tool does not start or operate at full power with a fully charged battery pack, clean the contacts on the battery pack. If the tool still does not work properly, return the tool, charger and battery pack, to the store where the product was originally purchased or one of our authorised MILWAUKEE® service centres for repairs.

**WARNING** To reduce the risk of personal injury and damage, never immerse your tool, battery pack or charger in liquid or allow a liquid to flow inside them.

### Cleaning

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

### Repairs

For repairs, return the tool, battery pack and charger to the store where the product was originally purchased or one of our authorised MILWAUKEE® service centres.

## ACCESSORIES

**WARNING** Always remove battery pack before changing or removing accessories. Only use accessories specifically recommended for this tool. Others may be hazardous.

For a complete listing of accessories refer to your MILWAUKEE® accessories catalogue or go online to [www.milwaukeetools.com.au](http://www.milwaukeetools.com.au) or [www.milwaukeetools.co.nz](http://www.milwaukeetools.co.nz). To obtain a catalogue, contact the store where the product was originally purchased or one of our authorised MILWAUKEE® service centres.







## **WARRANTY - AUSTRALIA and NEW ZEALAND**

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

## **AUSTRALIA AND NEW ZEALAND MILWAUKEE® SERVICE**

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: 1300 MILWAUKEE (1300 645 928)  
[www.milwaukeetools.com.au](http://www.milwaukeetools.com.au)

New Zealand: 0800 279 624  
[www.milwaukeetools.co.nz](http://www.milwaukeetools.co.nz)

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Mangere, Auckland, New Zealand, 2022

Professionally made in China for Milwaukee Electric Tool Corporation