



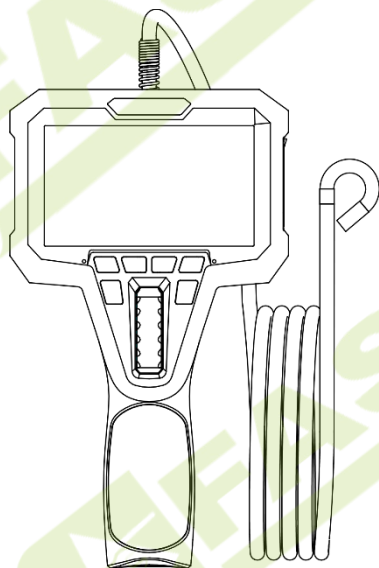
*Instruction manual for use, warnings
and maintenance*

ITALIANO

ENGLISH

Portable videoscope with flexible and orientable probe

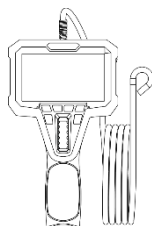
FG 220/EN



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ENGLISH

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Documentation originally written in ITALIAN

1. IMPORTANT WARNINGS



Before using the device, carefully read the warnings and instructions contained in this manual.

This warning and instruction manual is an integral part of the product and must be retained by the user for future reference. It contains important information on the safety of using the product.



Intended use. This appliance and its accessories must be used only for their intended purpose. Use other than that indicated could cause harm to people, animals, or property and is considered improper and unreasonable. The manufacturer cannot be held responsible for any damage caused by improper, incorrect, or unreasonable use, such as failure to follow the instructions and warnings provided, the use of non-original accessories, or unauthorized modifications or interventions on the product.

2. IMPORTANT SAFETY INSTRUCTIONS

This videoscope is designed to explore hidden areas/parts on machinery and engines, or for any other maintenance use where it is necessary to explore hidden or otherwise inaccessible parts.

NEVER USE THIS DEVICE for medical, healthcare, or veterinary purposes.



Always follow these safety instructions to avoid serious personal injury and/or damage to the device:

- NEVER use the device outside the specifications listed in the "Technical Specifications" section of this manual.
- NEVER expose the device to adverse weather conditions (rain, humidity, prolonged exposure to sunlight, etc.).
- NEVER use or store the device in environments containing potentially explosive atmospheres or flammable materials. Risk of fire.
- NEVER allow the device to come into contact with live equipment: Risk of electric shock.
- NEVER allow the device's probe to come into contact with incandescent or high-temperature elements.
- ALWAYS keep children or other people away from the work area while using the device.
- When inspecting motors, ALWAYS make sure they are turned off and at room temperature.
- Before each use, carefully check that the device is perfectly intact in all its parts and that there are no exposed cables or worn components. If damaged, do not use the device or attempt to open or modify it. Contact your dealer.
- Never attempt to open or tamper with the device, as this may compromise important safety features.
- The camera probe is made of materials that are NOT heat-resistant or high temperatures.
- Never wrap the probe around the tester or twist it.
- When not in use, store the device out of the reach of children.
- When using the device, always concentrate on your actions and pay close attention to what you are doing.
- Never use the device if you are under the influence of alcohol, drugs, medication, or if you are tired.
- NEVER use the device on moving parts. Risk of entanglement.

- **Always wear the following personal safety devices when using::**



Safety glasses equipped with side protection in compliance with current regulations.



Protective gloves in accordance with current regulations.



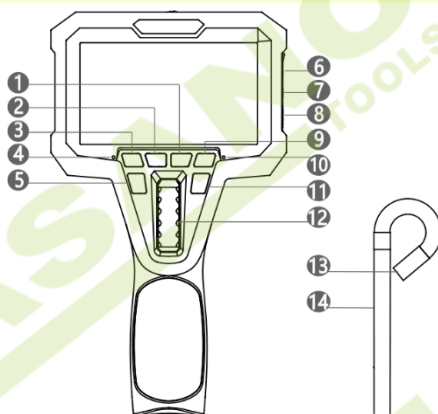
Safety shoes in compliance with current regulations.

- In any case, comply with your company's safety regulations and those required by the law in force in the country of use.
- Have the device repaired only by qualified personnel. Use only original spare parts recommended by the manufacturer.
- When using the device, be careful not to cut or scratch the protective layer of the probe.
- Be careful not to subject the probe to impact.
- NEVER pull on the device's probe.
- Always ensure that the camera and device are clean and dry after each use and before storing. Always avoid contact with oil or other corrosive substances.

3. TECHNICAL FEATURES

Code:	FG 220/EN
Descrizione:	portable videoscope equipped with flexible and orientable probe
Size:	220 mm x 123 mm x 48 mm
Net weight:	364 gr
LCD size:	4,3"
Probe diameter:	5,5 mm
Probe lenght:	1 m
Probe material:	metallo e plastica
Focus range:	15 - 100 mm
Viewing angle:	90°
Auxiliary lighting:	6 LEDs with 3-level adjustable brightness
Selectable camera resolution:	• FHD 1920X1080 • HD 1280X720 • VGA 640X480
Sensor:	CMOS 1/9"
Languages:	Italian; English; German; French; Spanish; Japanese; Russian; Korean; Chinese (Traditional and Simplified)
SD Card Slot:	maximum 32 GB
Usage temperature:	from -10°C to 50°C
Protection class:	the whole videoscope is not waterproof
Battery:	Lithium – 3.7V 2600mAh
Charging port:	USB type C
Charging cable:	supplied
Battery charger:	5V DC – not included Fast charging not supported
Charging time:	3 h – 4 h
Battery runtime:	3 h – 4 h
Accessories supplied:	USB Type-C cable; 2 x lens and display cleaning cloths
Supplied in:	nylon bag

4. PART'S DESCRIPTION



1	Down button / Image rotation on the display
2	Up button / Image zoom (2x; 4x)
3	Menu
4	Microphone
5	OK / Photo / Start recording / Stop recording
6	Charging / Data port
7	SD card slot
8	Reset
9	Mode (M): Photo / Video recording / Album
10	Indicator: • Red: charging • Green: battery fully charged • Blue: power on
11	ON/OFF button / LED adjustment
12	Rotary knob to adjust the probe orientation
13	Flexible cable
14	HD probe

5. ICON'S DESCRIPTION

A	Record ON:	
B	Record OFF:	no icon
C	SD card inserted:	
D	SD card not inserted	
E	LED at level 1:	
F	LED at level 2:	
G	LED at level 3:	
H	LED at level 4 (OFF):	
I	Battery charge at 25%:	
L	Battery charge at 50%:	
M	Battery charge at 75%:	
N	Battery fully charged:	
O	Battery fully discharged – recharge immediately:	
P	Battery charging:	

6. BATTERY CHARGING



ATTENTION

- Charge before first use.
- If the videoscope will not be used for an extended period, recharge it every 3 months to avoid irreversible battery damage.
- **Fast charging is not supported by the device.**

To charge the battery, connect the videoscope using the supplied cable to a 5V charger, ensuring that it complies with safety standards. The (P) symbol will appear on the videoscope's display to indicate that the battery is charging. When charging is complete, the (N) icon will appear on the display.

7. USE

Inserting / Removing the SD Card

To insert the SD card, lift the rubber cover on the side of the videoscope. Make sure the videoscope is turned off and insert the SD card into the appropriate slot, making sure it is inserted correctly and without applying excessive force to avoid irreparable damage to the slot.

To remove the SD card, apply light pressure to the SD card to release it and pop it out of the slot.

Temperature control sensor

The videoscope features a temperature sensor inside the probe: above 70°C, the camera automatically shuts down to prevent irreversible damage due to high temperatures. Normal use will resume as soon as the temperature drops to the device's tolerable level.

Language selection

You can select the desired language from those listed in the technical specifications table in this manual by pressing the Menu button to access the settings section. Use the Up and Down buttons to select "Language Settings" and press the OK button. Use the Up and Down buttons to select the desired language and press the OK button. Press the Menu button to return to viewing the image acquired by the probe on the display.

Setting the date and time

You can set the date and time: press the Menu button and use the Up and Down buttons to select "Date/Time" and press the OK button. Use the Up and Down buttons to set the year first, then press the OK button to move on to setting the month using the Up and Down buttons. Follow the same steps to set the day and time. Press the Menu button to return to viewing the image acquired by the probe on the display.

Other functions to be set with the Menu button

By pressing the Menu button, you can also select:

- Automatic shutdown by choosing between:
 - After 3 minutes of inactivity
 - After 5 minutes of inactivity
 - After 10 minutes of inactivity
 - None by selecting "Close"
- Resolution:
 - FHD 1920x1080
 - HD 1280x720
 - VGA 640x480
- Timestamp and time: pressing Close deactivates the function; pressing Open activates the function.
- Audio recording: pressing Close deactivates the function; pressing Open activates the function.
- Voice: pressing Close deactivates the function; pressing Open activates the function.
- Storage: indicates the presence of the SD card.
- Brightness: select the display brightness (20%, 40%, 60%, 80%, and 100%).
- Thermal system: select the temperature unit (°C/°F).
- Default setting: restores the default settings. Pressing Cancel cancels the operation, while pressing Confirm confirms the restore.
- Format: Delete all data. Pressing Cancel cancels the operation, while pressing Confirm confirms the formatting.
- Version: View the software version.

Use

1. Power on/off

To turn on the videoscope, press the ON/OFF button for 3 seconds: the LED to the right of the M button will light up blue. To turn off the videoscope, press the ON/OFF button for 3 seconds: the blue LED will turn off.

2. LED light

The LEDs on the probe light up when the videoscope is turned on. Press the ON/OFF button to select one of four brightness levels (the fourth level is when the LEDs are off).

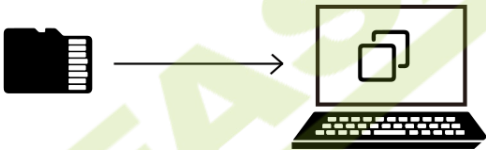
Mode

M				OK
Mode 1	Menu setting	Zoom in	Image rotate	Photo
Mode 2	Menu setting	Zoom in	Image rotate	Start / Stop record
Mode 3	Delete / Protect Lantern slide	Last / Rewind	Next / Forward	Play / Pause

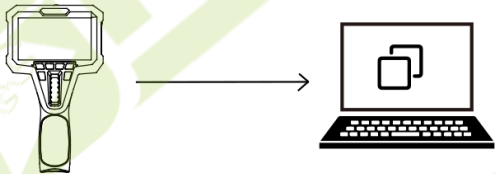
Transferring acquired files

There are two ways to transfer the acquired files::

1. Use ofTF card reader



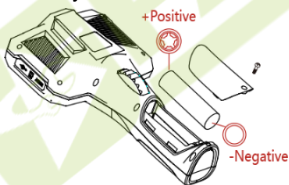
2. Connect power ON videoscope with PC using type-C USB cable



Battery installation

1. Unscrew the screws on the battery compartment cover on the back of the handle.
2. Insert the battery, matching the positive and negative terminals with the corresponding symbols in the battery compartment.
3. Replace the cover and secure it with the screws.

NOTE: before replacing the battery, make sure the videoscope is dry and turned off.



8. DISPOSAL INFORMATION

This appliance falls within the scope of Directive 2012/19/EU (WEEE).

The crossed-out wheeled bin symbol on the product and/or its packaging indicates that at the end of its life, the product must be treated separately from household waste and therefore sent to appropriate disposal and recycling centers. This is the responsibility of the user. Disposal of the product at designated facilities helps prevent potential negative impacts on the environment and promotes the reuse of renewable resources



9. EU DECLARATION OF CONFORMITY

FASANGAS S.R.L.

Viale Grecia 3

73100 Zona Industriale Lecce (LE) - ITALY

DECLARES

that the product

Electronic videoscope with flexible, rotating probe

FG 220/EN

(cc004)

IS IN ACCORDANCE

WITH THE FOLLOWING EUROPEAN DIRECTIVES

2014/30/EU

Electromagnetic compatibility directive (EMC)

2011/65/EU

RoHS directive

Harmonized standards used for compliance with the Essential Safety Requirements of the Directives

2014/30/EU	EN IEC 61000-6-2:2019 EN IEC 61000-6-4:2019
2011/65/EU	IEC 62321-3-1:2013 IEC 62321-5:2013 IEC 62321-4:2013+AND1:2017 CSV IEC 62321-6:2015 IEC 62321-7-1:2015 IEC 62321-7-2:2017 IEC 62321-8:2017


FASANGAS GIUSEPPE
Lecce, 2025.06.24

10. WARRANTY

This tool is guaranteed to be free from defects in workmanship and materials under normal use for a period of one year from the date of purchase. If, during this period, the tool is found to have defects attributable to the manufacturer, Fasangas S.r.l. will, at its sole discretion, repair the tool or replace it with another of equal value and characteristics at no cost to the purchaser. The warranty does not cover consumables and/or components subject to particular wear and tear, such as batteries, fuses, etc., or faults caused by inappropriate or incorrect use of the tool or any use not in accordance with the instructions in this manual. The warranty is void if the tool has been tampered with by personnel not authorized by Fasangas S.r.l. Products not covered by the warranty will be repaired at the customer's expense.

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Code: FG 220/EN

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