

Flexible videoendoscope

“GRZ-IR+W”

COBB
FIBRE OTTICHE



COBB FIBRE OTTICHE SRL

Via Nelson Mandela, 20 | 24048 Treviolo (BG) | Italy Tel. +39 035 0448601 - Fax +39 035 0448585
info@fibre-ottiche.com - www.endoscopi-industriali.it

Flexible videoendoscope

“GRZ-IR+W”

COBB
FIBRE OTTICHE

The “GRZ-IR” videoendoscope represents an advanced solution for IR visual inspections, featuring infrared vision at a wavelength of 940 nm, with transmission achieved through the use of glass optical fibers specifically designed for IR applications:

5-inch touchscreen display

High-resolution display providing a smooth and interactive user experience, with quick controls available both via touchscreen and dedicated physical buttons.

ERGONOMIC JOYSTICK

Provides PROBE ARTICULATION with 360° movement, ensuring complete and flexible inspection even in the most difficult-to-reach areas. Additionally, the angle lock/unlock system allows the desired orientation to be maintained for greater stability during analysis.

ANNOTATION, NOTES AND IMAGE MANAGEMENT FUNCTION

Allows adding titles to photos and inserting notes directly on the screen during inspection. This feature enables clear and effective organization and documentation of findings, facilitating the subsequent analysis of collected data.

HDMI CONNECTION

It can be connected to an external monitor for wider viewing, while the functionality

INTEGRATED WI-FI

(available on some models) allows real-time image transmission to mobile devices.

Power is provided by a replaceable Li-ion battery, offering extended autonomy and FAST USB-C CHARGING.

IP67 WATERPROOF RATING

for the insertion tube, making it suitable for the most demanding environments.



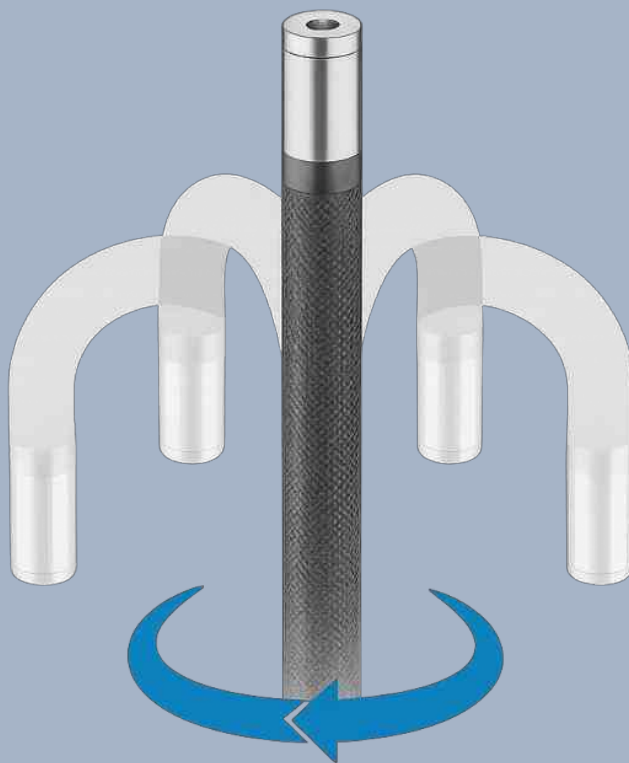
Flexible videoendoscope

“GRZ-IR+W”

COBB
FIBRE OTTICHE

IP67 PROBE

Fully immersible
waterproof probe



180° rotatable

Everything under control with
one hand

USB-C for battery
charging

usb

Headphone jack

HDMI

HDMI output

MICROSD

Micro SD slot

COBB FIBRE OTTICHE SRL

Via Nelson Mandela, 20 | 24048 Treviolo (BG) | Italy

Tel. +39 035 0448601 - Fax +39 035 0448585

info@fibre-ottiche.com - www.endoscopi-industriali.it

Flexible videotoscope

“GRZ-IR+W”

COBB
FIBRE OTTICHE



KEY FEATURES

- Display:** 5" high-resolution LCD touchscreen
- Storage:** Micro-SD card support
- Video output:** HDMI for connection to external displays
- Lighting:** Adjustable in 6 levels via dimmer button
- Zoom:** Digital, with levels depending on the probe used
- Image rotation:** 90°, 180°, 270° and mirror mode
- Image functions:** Monochrome, negative, contrast adjustment, saturation, white balance
- Probe articulation:** 360° movement via joystick
- Probe position lock:** Lock/Unlock button to stabilize the angle
- Integrated Wi-Fi:** Enables real-time image transmission to mobile devices (on selected models)

TECHNICAL SPECIFICATIONS

- Power supply:** Rechargeable Li-ion 18650 battery, 3350 mAh x2, replaceable
- Charging:** USB Type-C, input 5V/2A
- Waterproof rating:** IP67 (insertion tube only)
- Operating temperature:**
 - Probe and distal tip:** 0–60°C
 - Main unit:** 0–40°C
- Operating humidity:** 15–90% RH
- Weight:** 1.0 kg (including monitor and control unit)

ADVANCED FUNCTIONS

- Photo/Video recording:** JPG and MP4 formats, storage on Micro-SD
- Playback and file management:** Photo/video viewing with annotation capability
- Measurement:** Estimation of object dimensions using a ruler tool
- Craffiti mode:** Ability to draw and annotate images directly on the touchscreen

ADVANCED IMAGE FUNCTIONS

- EV setting:** Exposure adjustment to optimize visibility under different lighting conditions
- Gain setting:** Manual gain control to improve image quality
- Tone adjustment:** Custom adjustment of saturation, brightness, and contrast
- Sharpness and noise reduction:** Optimization of sharpness and noise reduction

COBB FIBRE OTTICHE SRL

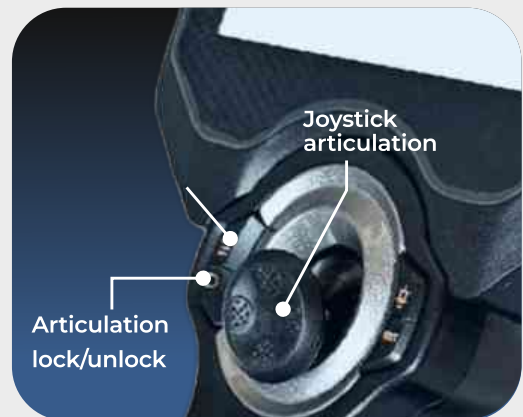
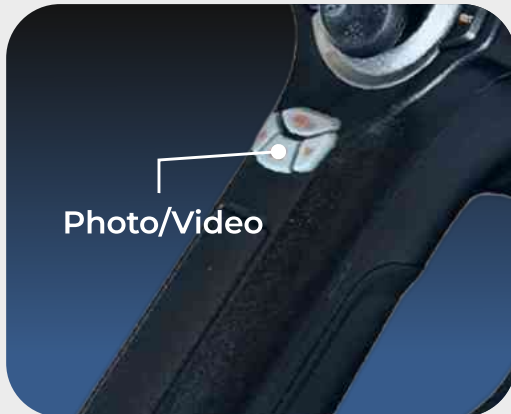
Via Nelson Mandela, 20 | 24048 Treviolo (BG) | Italy Tel. +39 035 0448601 - Fax +39 035 0448585
info@fibre-ottiche.com - www.endoscopi-industriali.it

Flexible videoendoscope

“GRZ-IR+W”

COBB
FIBRE OTTICHE

One-hand operation, including probe articulation, photo capture, video recording, and brightness adjustment.



COBB FIBRE OTTICHE SRL

Via Nelson Mandela, 20 | 24048 Treviolo (BG) | Italy Tel. +39 035 0448601 - Fax +39 035 0448585
info@fibre-ottiche.com - www.endoscopi-industriali.it

Flexible videoendoscope

“GRZ-IR+W”

COBB
FIBRE OTTICHE

Available diameters

4,0mm- 6,0mm

Lighting

LEDs and optical fibers positioned at the probe tip

Articulation of viewing head

4-way – 360°

Depth of field V/0°

From 60 mm to infinity

Probe head articulation angle

180°

Field of view

70°

Viewing direction

Forward 0°

Monitor features

IPS Full-Color

Monitor

LDC 5.0”

Anti-reflection system and camera sensitivity enhancement

Automatic

Power supply

Lithium batteries, 3350 mAh and/or mains power 110/220 VAC

Photo and video

Stored on SD card

Key functions

Main menu settings: date, time, video, photo, light adjustment

Image control functions

Image rotation, photo/video preview

White balance

Automatic

Temperature resistance

Storage and operating temperatures: -20°C to +60°C

Waterproof rating

IP67

Available lengths

4,0mm: 1,5mt - 2,0mt - 3,0mt
6,0mm: 1,5mt - 2,0mt - 3,0mt



COBB FIBRE OTTICHE SRL

Via Nelson Mandela, 20 | 24048 Treviolo (BG) | Italy

Tel. +39 035 0448601 - Fax +39 035 0448585

info@fibre-ottiche.com - www.endoscopi-industriali.it