

Q Industrial Videoendoscope

Compact
and high-
performance



ND-TEC

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Q



Easier and faster inspections with the handy all-round videoendoscope Q

The Q Industrial Videoendoscope is portable, lightweight and compact, and is thus an indispensable companion in your daily, mobile use. Despite its compact dimensions, the Videoendoscope Q is equipped with cutting-edge technology and features.

Outstanding image quality

The powerful, high-resolution CMOS sensor combined with powerful LED lighting delivers razor-sharp images. The 5.5" OLED touch display allows you to discover even the smallest details of the inspection area.

Customizable to your application

The robust probe of the Q is interchangeable. Probes with different viewing directions and working lengths from 1 to 8 m and probe diameters from 1 to 8.4 mm are available. This allows you to configure the videoendoscope precisely for your application and cover several applications with this one hand-held device.

Intuitively simple working

Switch on and get started: self-explanatory icons on the large touchscreen make operating the Q extremely easy. The smooth-running joystick allows you to control the the probe deflection intuitively and precisely (Deflection depends on the diameter and length of the probe).

Fast data exchange

USB-C, mini-HDMI and an SD memory card slot are integrated for quick and easy data transfer. Optionally with WiFi, e.g. for streaming live video or uploading to backup photos & videos via FTP.



Cutting-edge technology for conclusive inspections

BRILLIANT FULL HD OLED TOUCH SCREEN

The 5.5" OLED touch display offers high color accuracy and can be adjusted to the ambient brightness.



HIGH COMPATIBILITY

For recording image or film material, the videoendoscope has a protected SD card slot, a mini HDMI output and a USB-C port. A headset can be connected for audio commentary. Optionally Wifi-capable.

INTUITIVELY EASY: JOYSTICK CONTROL

The joystick offers intuitive movement and precise control. The ergonomic position of the control buttons allows operation with one hand, so that the probe can be guided with the other hand.

ERGONOMIC DESIGN

Ergonomically shaped handle sits comfortably in the hand.



REVOLVER BUTTON

Still images can be recorded with the help of the easily accessible button on the back.

REPLACEABLE BATTERIES

Operation with mains adapter via USB-C connection or with commercially available standard rechargeable batteries (type 18650).

ACCESSORIES SUPPLIED

- Transport case
- Battery charger
- 2 Li-Ion battery (type 18650-protected)
- USB-C cable with power supply unit
- Stylus Pen
- SD card with USB-A adapter
- Shoulder strap

OPTIONAL ACCESSORIES

- Device stand with or without magnetic base
- Rigid guide tube with handle
- Dekabon tube (semi-flexible guide tube)
- Centering aid (for centering video probes in tubes)
- WiFi

SIMPLE PROBE CHANGE

Depending on the application, you can choose between different probe diameters, working lengths and optical properties.

ROBUST PROBE WITH 4-WAY BENDING*

Tough material – for extreme inspection tasks. Robust probe head and probe with four-layer structure and tungsten braiding on the outside.

HIGH IMAGE QUALITY

The camera with probe head has a high refresh rate and high resolution for razor-sharp images.

DUAL-CAMERA

With the new dual camera, interchangeable lenses are no longer necessary. The viewing direction can be changed from 0° to 90° simply by pressing a button. Both cameras also work in partial or full screen mode.



* 4-way bending not for all probe diameters



Wide range of applications in industrial use

The areas of application for industrial endoscopy are highly diverse: Endoscopes are used to look inside engines, gearboxes or turbines, to detect smuggled goods in vehicles, to inspect weld seams in pipes or even to investigate the structure of a termite mound. The **Q Videoendoscope** is your reliable companion in the most diverse fields of work, environmental conditions and applications, with a focus on easy and fast handling and documentation.



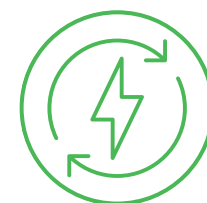
Aviation

When servicing engines and airframes, hard-to-reach areas can be inspected without the need for dis-assembly. With the **Q video-endoscope**, you can carry out inspections quickly and efficiently and obtain safe and conclusive results.



Process industry

In process plants, downtime means loss of productivity and high costs. Industries such as food, beverage or pharmaceutical, which use a variety of automation systems, often have complex, very thin or very long piping systems for which the **Q Videoendoscope** is ideally suited for maintenance.



Power generation

When it comes to providing energy, maximum availability counts. Preventive functional testing helps to reduce downtimes. The compact and light-weight **Q Videoendoscope** is ideal for mobile use, for example in all kinds of turbines, engines, and gear boxes, and enables meaningful inspections.



Automotive engineering & Traffic

Thanks to its outstanding features, the **Q Videoendoscope** is perfect for inspections in the automotive and rail transportation sectors. This includes the inspection of components in ongoing production and in the final inspection, as well as for the continuous quality assurance of engine blocks, injection nozzles, brake systems or cast parts.



Security

The robust and compact **Q videoendoscope** with corresponding accessories is convincing in daily use for fast and reliable resolution of unknown hazardous situations, for vehicle and container inspections by customs, but also for rescue operations in collapsed buildings.



Infrastructure

The **Q videoendoscope** is suitable for inspecting buildings, civil engineering structures bridges, sewer systems, ventilation shafts and for checking building fabric for defects and corrosion. The simple documentation of the inspections facilitates the creation of standardized expert reports.

NDTec: Quality products and service – customer-oriented

Know-how and quality, for safe inspections

We have been involved in non-destructive visual material testing for over 25 years. With this experience, we have created a wide range of industrial endoscopes, that are now used in almost all industries worldwide. The mechanic in the aircraft hangar trusts in the quality of NDTec endoscopes just as much as the technician who maintains a wind turbine or inspects a technical component.

Service you can rely on

Customer support is our top priority. We build a strong partnership through personal exchange and advice - as your reliable solution provider.

NDTec also supports you after the purchase with its own repair service. If required, we can provide you with rental devices to bridge downtimes or for testing before purchase.



Camera sensor	CMOS
Light source	Front LED or fiber optic lighting (available with white light)
Viewing directions	0° Forward view (FN, FM, FF) 0° Forward view and 90° side view (dual mode)
Screen	High-resolution 5.5" OLED touch screen
Electrical supply	2 rechargeable batteries, type: 18650-protected; USB-C mains adapter
White balance	Automatic or manual
Image storage	
Photo	BMP, PNG, JPG
Video	AVI, MP4
Storage	Internal memory, SD memory card or PC via USB-C
Angulation	2- /4-way mechanical with joystick
Connections	SD card, USB-C, HDMI, Mini HDMI
Wireless	Optional: Wifi-capable
Protection class	Handunit: IP 54, probe: IP67
Ambient temperature	Handunit -20°C to +50°C, probe -20°C to +70°C
Weight	From 0.95 kg, depending on probe

WEBSITE



ndtec.net

SHOP



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PROBE TYPES

Diameter	Working length								
	0.5 m	1 m	1.5 m	2 m	3 m	5 m	6 m	8 m	10 m
1.1 mm	•	•							
1.7 mm		•	•	•					
2.3 mm		•	•	•	•				
2.9 mm*		•	•	•					
3.9 mm**		•	•	•	•				
6.1 mm		•	•	•	•	•	•	•	•
8.4 mm				•	•	•	•	•	•

	FN		FM		FF		SM		DN		DM	
	DOF [mm]	FOV [°]	DOF [mm]	FOV [°]	DOF [mm]	FOV [°]	DOF [mm]	FOV [°]	DOF [mm]	FOV [°]	DOF [mm]	FOV [°]
1.1 mm	3 - 20	120										
1.7 mm	3 - 50	120										
2.3 mm	3 - 50	120										
2.9 mm*	3 - 50	120							F: 3 - 50 S: 3 - 50	F: 120 S: 120		
3.9 mm**	3 - 50	120	5 - 150	110							F: 5 - 100 S: 3 - 50	F: 100 S: 120
6.1 mm	3 - 50	120	8 - 150	110	50 - ∞	80	8 - 150	120			F: 8 - 100 S: 5 - 50	F: 100 S: 100
8.4 mm											F: 8 - 100 S: 8-100	F: 100 S: 100

FN Forward Near
FM Forward Mid
FF Forward Far

SM Side Mid
DN Dual-Cam Near
DM Dual-Cam Mid

*Tolerance max. 0.1 mm
**Tolerance max. 0.2 mm

Individual solutions on request.

Subject to technical changes.