



FEATURES

System / Hardware Components

- 8 GB RAM, expandable
- Built-in 128 GB storage
- Audio jack for microphone connection to add voice-over to video recordings
- -WiFi / Bluetooth functionality

- Two USB-A and one USB-C port
- Mini-HDMI output for external HD displays
- Real-Time Clock (RTC) for measuring defined time intervals

Probes and Camera Heads

- Quick and easy probe exchange
- Probes featuring the latest CMOS technology, multi-camera heads, various depth-of-field ranges, and viewing angles
- Camera heads with various lighting technologies (white light fiber/LED/UV)
- Multiple probe diameters ranging from 0.85 mm to 8.4 mm
- "Steering Map" and "Explore-and-Stay" functions

Operating System / User Interface

- Easy-to-use Android platform
- New intuitive control concept with icon-based interface and touchscreen
- L- / R and trigger buttons customizable with individual functions

R model with stereo 3D measurement

Advantages of our new stereo 3D measurement

- Accurate stereo 3D measurements
- Stereo 3D measurement enables precise detection of cracks, wear, corrosion, joint widths, or edge offsets.
- Reliable diagnostics
- By providing objective, numerical measurement data, stereo 3D technology helps reduce subjective misinterpretations.
- Time savings and increased efficiency $% \left(1\right) =\left(1\right) \left(1\right)$
- The need for additional or manual measurements is eliminated, making inspections faster and more efficient with reliable data.
- Simplified documentation and better comparability
- With the stereo 3D measurement function, exact numerical values can be recorded and comparison measurements can be carried out more easily.

Precise and intuitive control for successful inspections

BRILLANT 7 INCH HD IPS TOUCH-DISPLAY

The large, high-contrast IPS display offers a resolution of up to 1920x1080 px and outstanding color accuracy. The icon-based user interface is intuitive and easy to operate.

CONNECTION

- Mini-HDMI
 e.g. for joint viewing of live images
 on a monitor
- USB Typ-C

e.g. for storage devices or keyboards

IINTUITIVELY SIMPLE: JOYSTICK CONTROL

The precise electromechanical 4-way* control enables easy navigation and smooth, responsive probe operation.

JOYSTICK

For precise adjustment in optional 3D measurement.

ERGONOMIC DESIGN

Ergonomically shaped handle for comfortable working.

HIGH-PERFORMANCE BATTERY

Four 18650B lithium-ion batteries can be easily replaced or charged directly via the USB-C port. The battery status is clearly displayed.

ACCESSORIES SUPPLIED

- Transport case
- Battery charger (with 4 charging stations)
- Li-Ion battery 18650-protected, 4 pieces
- USB Power supply, USB-C Cable
- HDMI Cable

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 pipes)

EASY PROBE EXCHANGE

Quick exchange of probes with different lengths (1 m – 15 m), various depth-offield ranges, and optical properties.



CONNECTION

- Audio jack e.g. for microphone / headset
- Two USB-A ports

SHOCK-RESISTANT HOUSING FOR TOUGH INDUSTRIAL USE

TRIGGER

The convenient rear button is

freely programmable

to suit your individual

BUTTON

needs.

Made of robust plastic with shock-absorbing buffers.

VARIOUS LIGHTING TECHNOLOGIES

White light fibre, white light LED, UV LED and UV/white light LED

VARIOUS PROBE DIAMETERS

0.85 mm - 8.4 mm Diameter

ROBUST PROBE WITH 4-WAY ANGULATION*

Tough construction – for difficult inspection areas. Robust probe head and probe surface layer made of tungsten material.

*from 2.2 mm Probe Diameter (1.7mm: 2-way angulation)

Technical data

Camera sensor CMOS Camera technology

LED or fiber optic (available as white light, ultraviolet) Light source

IPS-HD-Touchscreen 7" Display

Electrical supply 4 rechargeable batteries, type: 18650-protected;

power supply unit with USB-C

White balance Automatic / manual

Image Storage Photo / Video

IPG, PNG / MP4, AVI Internal 128 GB memory, Extension: USB-Flash-drive

Storage

Angulation Control

Motorized joystick, 4 way angulation, "Explore-and-Stay"-Function, "Steering Map"

2x USB-A, USB-C, Mini-HDMI, audio/microphone connection Connection

Wireless WiFi, Bluetooth

Device

Handunit IP54, Probe IP67 Protection class

Handunit -10° C to $+50^{\circ}$ C, Probe -20° C to $+70^{\circ}$ C Ambient temperature 36.4 cm (L) x 19.85 cm (B) x 13.25 cm (H)

Weight From 2 kg, depending on probe

PROBE VERSIONS (without stereo 3D measurement) 1

Individual solutions on request.

Diameter	Working length									
	1 m	1,5 m	2 m	3 m	5 m	8 m	10 m	15 m		
0.85 mm	•									
1.1 mm	•									
1.7 mm	•	•	•							
2.2 mm	•	•	•	•						
2.8 mm*	•	•	•	•						
4.0 mm**	•	•	•	•	•²					
6.0 mm	•	•	•	•	•²	•²	•2			
8.4 mm				•	•	•	•	•		

Diameter	FN		FM		FF		DN		DM	
	DOF [mm]	FOV [°]	DOF [mm]	FOV [°]	DOF [mm]	FOV [°]	DOF [mm]	FOV [°]	DOF [mm]	FOV [°]
0.85 mm	3 - 20	120								
1.1 mm	3 - 20	120								
1.7 mm	3 - 50	120								
2.2 mm	3 - 50	120								
2.8 mm*	3 - 50	120					F: 3-50 S: 3-50	F: 120 S: 120		
4.0 mm**	3 - 80	110	5 - 150	110					F: 8-150 S: 3-50	F: 100 S: 120
6.0 mm	3 - 80	110	5 - 150	110	50 - ∞	80			F: 8-100 S: 5-50	F: 100 S: 100
8.4 mm										F: 120 ± 10 S: 120 ± 10

FN Forward Near FM Forward Mid FF Forward Far

DN Dual-Cam Near **DM** Dual-Cam Mid

¹Technical specifications for probes with stereo 3D measurement function are available in a separate brochure.

² Only Dual-Cam

*Tolerance max. 0.1 mm

**Tolerance max. 0.2 mm

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 R 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

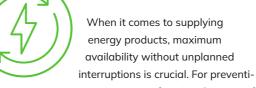


R Videoendoscope, you can carry out inspections quickly and efficiently and obtain safe and conclusive results.

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 R Videoendoscope is ideally suited for maintenance.

Power Generation



ve or spontaneous functional testing of power plants or wind turbines, the R provides fast, reliable, and meaningful visualization of hard-to-access cavities and components.



Automotive & Transportation

Thanks to its outstanding features, the R Videoendoscope is perfect for inspections in the automotive and rail transpor-

tation 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 new video endoscope R, with its easy probe exchange, proves its worth in daily use for the fast and reliable assessment of unknown

hazardous situations, for vehicle and container inspections by customs, as well as for rescue operations in collapsed buildings.



Infrastructure

The R is equally suitable for the inspection of above-ground and underground structures, bridges, sewer systems, ventilation shafts, and for checking

building materials for defects in concrete, steel, or other construction materials. The simple documentation process facilitates the creation of expert reports.



NDTec – Specialist with excellent service

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 purchasewith its own repair service. If required, we can provide you with rental devices to bridge downtimes or for testing before purchase.



Subject to technical changes.





WEBSITE

SHOP