Splus

Splus, the new industrial videoendoscope

Large display and easy handling

ND·TEC

www.ndtec.net

Extra-large 8” touch display

The high-resolution display provides quality images in a large format. This makes it easier to evaluate the images and make better decisions.

Razor-sharp images

The Splus is equipped with the latest technology. The camera with its high-resolution CMOS sensor, the 8" high-resolution display and the bright LED lighting guarantee brilliant image quality, allowing you to see even the smallest details.

The right system for demanding video inspections

The new Splus videoendoscope is ideal for use in complicated, detailed and demanding inspections. In this system, the monitor and probe control are separate. The large monitor can be positioned separately and only the compact, lightweight handpiece is required for probe control. This makes work during lengthy inspections much more comfortable and less tiring.

Extra large screen for reliable fault detection

ACCESSORIES SUPPLIED

- Transport case (trolley)
- Signal cable for Splus 2m (between screen and hand unit)
- Battery charger (with 4 charging slots)
- Li-Ion battery (type 18650B), 4 pieces
- SD-USB Card Adapter
- Power supply unit

OPTIONAL ACCESSORIES

- GTR (rigid guide tube) with handle
- Dekabon tube (semi-flexible guide tube)
- Centering device (for centering video probes in pipes)
- WiFi

HIGH-RESOLUTION 8" IPS TOUCH DISPLAY

The 8" IPS display with simple touch operation reproduces razor sharp and high contrast images at low image noise. The intuitive menu navigation makes it easy to operate, save and edit videos and images.

SIMPLE MENU NAVIGATION

Intuitive icons and the large touch display make it easy to set up the Splus.

SD AND USB INTERFACE

A protected SD card slot, an HDMI and a mini-USB port are located on the side of the housing. Below this is the input for the power supply unit for charging the lithium-ion batteries, type 18650.

JOYSTICK CONTROL

The precise electronic joystick offers intuitive motorized movement and precise control of the probe.

SELECTION BUTTONS

The selection buttons allow operation with just one hand with the following functions: Video recording, photo, brightness levels and probe adjustment.

POWERFUL WHITE LIGHT LED TECHNOLOGY

HIGH IMAGE QUALITY

Thanks to the CMOS sensor, the camera has a high frame rate and resolution.

ROBUST PROBE WITH 4-WAY ARTICULATION*

Tough even for extreme inspection applications. The probe with four-layer structure and tungsten braiding on the outside is particularly resistant.

* 4-way bending not for all probe diameters

SIMPLE PROBE CHANGE

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

BRACKET FOR MOUNTING ON THE MONITOR

The hand unit can simply be hooked onto the right-hand side of the monitor housing.

Technical data

Camera sensor	CMOS
Light source	LED or fiber optic (available as white light, infrared, ultraviolet)
Display	High-resolution 8“ touch screen
Electrical supply	4 rechargeable batteries, type: 18650-protected; USB-C power adapter
White balance	Automatic/manual
Image storage	
Photo	JPG, BMP, PNG
Video	AVI, MP4
Storage	SD card or PC via USB-C
Angling, control	2 / 4-way motorized with joystick with locking function
Connections	SD card, USB-C, HDMI, Mains adapter
Wireless	Optional: WiFi
Protection class	Handunit IP54, probe IP67
Ambient temperature	Handunit -10°C to +50°C, Probe -20°C to +70°C
Monitor size	25 cm (L) x 32 cm (B) x 12 cm (H)
Weight	From 1,6 kg, depending on probe

PROBE DESIGNS

Diameter	Working length							
	1 m	1.5 m	2 m	3 m	5 m	6 m	8 m	10 m
0.85 mm	•							
1.0 mm	•							
1.7 mm	•	•	•					
2.3 mm	•	•	•	•				
2.8 mm*	•	•	•	•				•
3.9 mm**	•	•	•	•				
6.1 mm	•	•	•	•	•	•	•	•
8.4 mm	•	•	•	•	•		•	

	FN		FM		Dual Mode		FF	
	DOF (mm)	FOV (°)	DOF (mm)	FOV (°)	DOF (mm)	FOV (°)	DOF (mm)	FOV (°)
0.85 mm	3 - 20	120						
1.0 mm	3 - 20	120						
1.7 mm	3 -50	120						
2.3 mm	3 - 50	120						
2.9 mm*	3 - 50	120						
3.9 mm**			8 - 100 | 5 - 150	100 | 110	F: 5 - 100 S: 3 - 50	100 - 120		
6.1 mm			8 - 100 | 8 - 150 | 20 - 200	100 | 110	7 - 80	100 | 90	50 - ∞	80
8.4 mm			F: 8-100 S: 8-100	F: 120 S: 120	F: 8 - 100 S: 8 - 100	F: 100 S: 100		

FN Forward Near
FM Forward Mid
DM Forward Mid
FF Forward Far

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

Individual solutions on request.

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 Splus 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 Splus 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 Splus 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 lightweight Splus 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 Splus 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 Splus 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 Splus 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 downt-imes or for testing before purchase.

NDTec Reparatur Service

ND·TEC

Subject to technical changes.

WEBSITE

SHOP

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