



EN·joy VTec Q with interchangeable
probes and joystick control

Endoscope EN·joy VTec Q



Precise results through intuitive control

The videoscope model VTec Q of the **EN-joy** product family has been specially developed for the rough conditions of the industrial environment. With its shockproof and robust housing it is especially protected against splash water and dust as well as a high number of chemicals. The outer material of the low-wear and abrasion-resistant flexible probe consists of a particular robust tungsten braiding and therefore the **EN-joy** Q videoscope is highly suitable for extreme inspection areas. Like all **EN-joy** videoscopes from ENDO INDUSTRIAL the VTec Q is also available in different probe lengths, diameters and viewing directions.

The precise and intuitive control (360°, with 2- or 4-way deflection) via joystick allows inspections even in cavities that are difficult to access.

The high-resolution camera in the probe head has excellent imaging thanks to the HD CMOS sensor. Together with the high-contrast OLED touch display the VTec Q videoscope delivers razor-sharp images for significant analyses.

With a weight of less than 1,0 kg and powerful lithium-ion batteries the system is an indispensable companion for the daily mobile use. Also mains operation is possible at any time. Even the tiniest details in the darkest testing environments become visible thanks to the latest LED technology in combination with the high-performance glass fiber light guides.

Fast data transfer is possible with USB-C and mini-HDMI interface as well as via the SD memory card slot.



APPLICATION AREAS

- Mobile and stationary
- Inspection of
 - Castings and turned parts
 - Aircraft engines
 - Large and small engines
- Leak detection
- Mobile maintenance (of e.g. engines and power plants)
- Quality assurance in the manufacturing process of castings, engines and automotive parts
- Inspection of pipes and valves in power plants and much more.

BRILLIANT FULL HD OLED display

The 5.5" OLED display with touchscreen offers high a colour accuracy and is adaptable to the ambient brightness.

SIMPLE INTUITIVE CONTROL

The joystick offers intuitive handling and precise motion control. The selection buttons allows a one-handed operation.

HIGH IMAGE QUALITY WITH 360° ROTATION

Thanks to HD CMOS sensors, the camera has a high frame rate and resolution. The distal end of the probe can be rotated 360° by the robust deflection mechanism.

DUAL CAMERA

With the new dual camera interchangeable tips are no longer necessary. The viewing direction can be changed from 0° to 90° by pressing only one button. Both cameras operate in full screen mode.

REVOLVER BUTTON

The ergonomic button on the back can be used to set and record images.

SIMPLE PROBE EXCHANGE

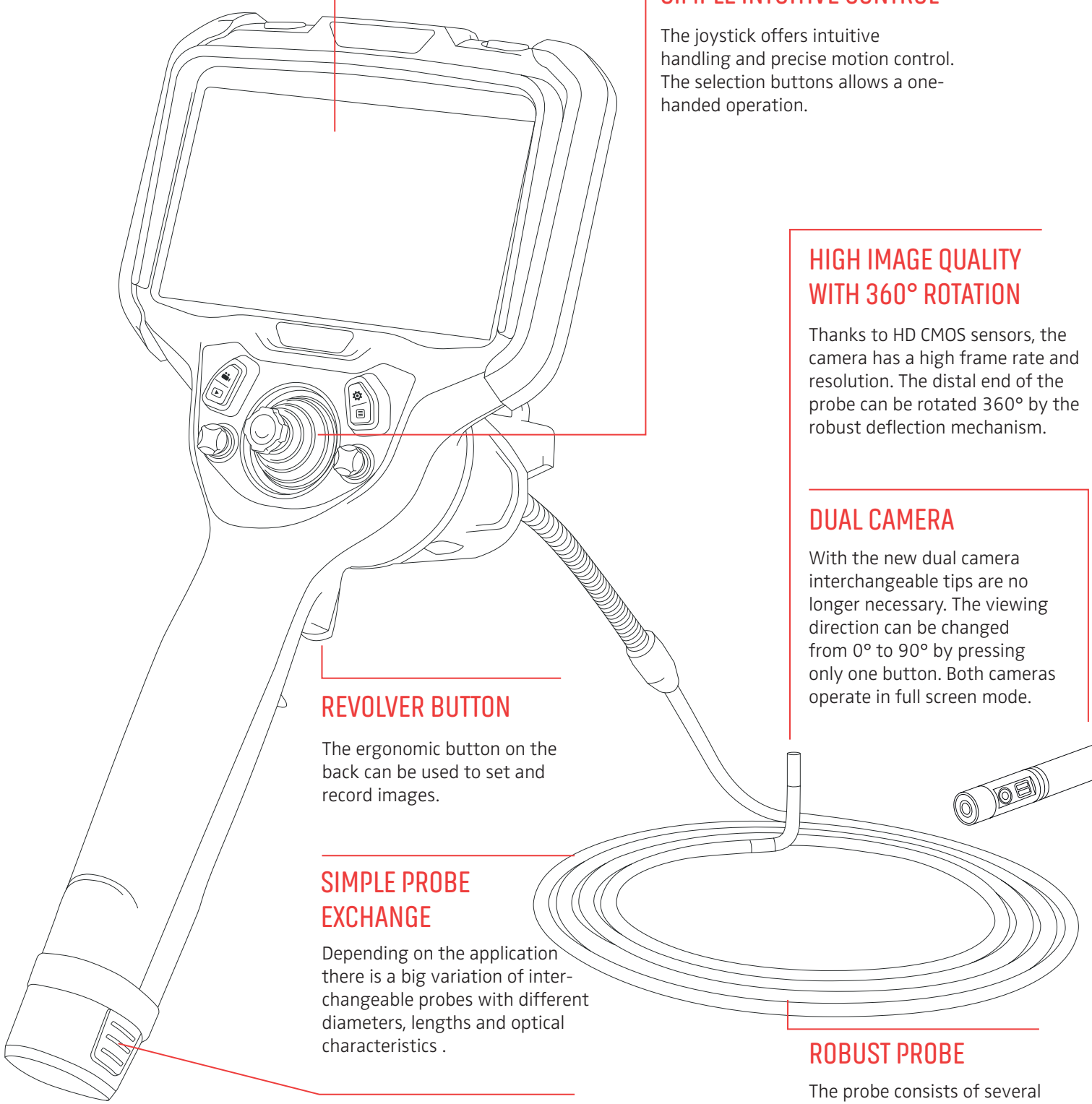
Depending on the application there is a big variation of interchangeable probes with different diameters, lengths and optical characteristics .

INTERCHANGEABLE BATTERIES

Operation with power supply via USB-C or standard batteries (type 18650).

ROBUST PROBE

The probe consists of several layers: stainless steel, a sealing layer and an outer layer of robust tungsten braiding which grants an optimum service life.



TECHNICAL DATA

SYSTEM

Image sensor	CMOS
Illumination	LED or fiber optics (available with white light)
Display	High-resolution 5.5" OLED screen
Electrical Supply	2 batteries, type: 18650-protected; mains adapter USB-C
White balance	automatic or manual
Image storage	
Photo	BMP, PNG, JPG
Video	AVI
Medium	SD card or PC via USB-C
Deflection	2- /4-way mechanical with joystick
Connections	SD card, USB-C, mini HDMI
Unit and probe	
Protection class	Probe IP67
Ambient temperature	Handset -20°C to +50°C, probe -20°C to +70°C
Weight	From 0.95 kg, depending on the probe

PROBE VERSIONS

Diameter (mm)	Working length					
	1 m	1,5 m	2 m	3 m	5 m	8 m
2,2 mm*	✓	✓	✓			
2,8 mm*	✓	✓	✓			
3,9 mm**	✓	✓	✓	✓	✓	
6,1 mm	✓	✓	✓	✓	✓	✓

* Tolerance max. 0.1 mm

** Tolerance max. 0.2 mm

Further versions available upon request.

Diameter (mm)	FN		FM		FF		DM			
							0°		90°	
	DOF (mm)	FOV (°)	DOF (mm)	FOV (°)	DOF (mm)	FOV (°)	DOF (mm)	FOV (°)	DOF (mm)	FOV (°)
2,2 mm*	3 - 50	120								
2,8 mm*	3 - 50	120								
3,9 mm**			8 - 150	110			5-100	100	3-50	120
6,1 mm			8 - 150	110	50 - ∞	80	8-100	100	5-50	100

FN Forward Near

FM Forward Mid

FF Forward Far

DM Dual

* Tolerance max. 0.1 mm

** Tolerance max. 0.2 mm

Further versions available upon request.

Technical modifications reserved.

ACCESSORIES INCLUDED

- Carrying case with special winding
- Battery charger
- Li-Ion batteries (type 18650-protected)
- USB cable with power supply unit
- SD card incl. card reader
- HDMI cable

OPTIONAL ACCESSORIES

- Stand (also: magnetic) incl. stylus pen
- Rigid guide tube with handle
- Dekabon tube (semi-rigid guide tube)
- Centring aid (to center the video probes inside the tube)



MANUFACTURE

We know the special requirements of many industries and manufacture customized endoscope solutions for precise and significant inspections.

SALES

With us you will find the right endoscope for every application. We offer you an extra large endoscope range with qualified expert consultation.

SERVICE

We repair endoscopes of all well-known manufacturers and provide you with a loan replacement during the repair time. Additionally, our specialists also perform endoscopic examinations upon request.

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