



KARL STORZ Industrial Group

4.4 mm MULTIPOINT CLICK4MOVE® Videoscope



Product Information material

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4.4 mm MP videoscope – in general

Smallest “**See & Measure**” videoscope with integrated MULTIPPOINT measuring system which is very precise and easy to use.

Robust outer tungsten braiding and industrial design ensures maximum sheath flexibility as well as the stability required in industrial use.

High image quality with bright illumination comparable with existing 5mm videoscopes.





4.4 mm MP videoscope – target audience

Wind power Inspection

- planetary gear and bearing inspection

MRO Aviation/Helicopter

- different APU's,
- V2500 or PT6 Turbine inspection etc.
- different helicopter turbine inspection

Energy MRO Inspection

- Different smaller turbines





Product overview





4.4 mm MP Videoscope – Technology

- Tungsten braiding
- Four-way deflection
- CLICK4MOVE® deflection mechanism
- Lock function (double thread) for interchangeable telescopes
- Water and dust proof: IPX7
- Robust design for industrial use
- Integrated MULTIPOINT Measurement System
- Bright illumination



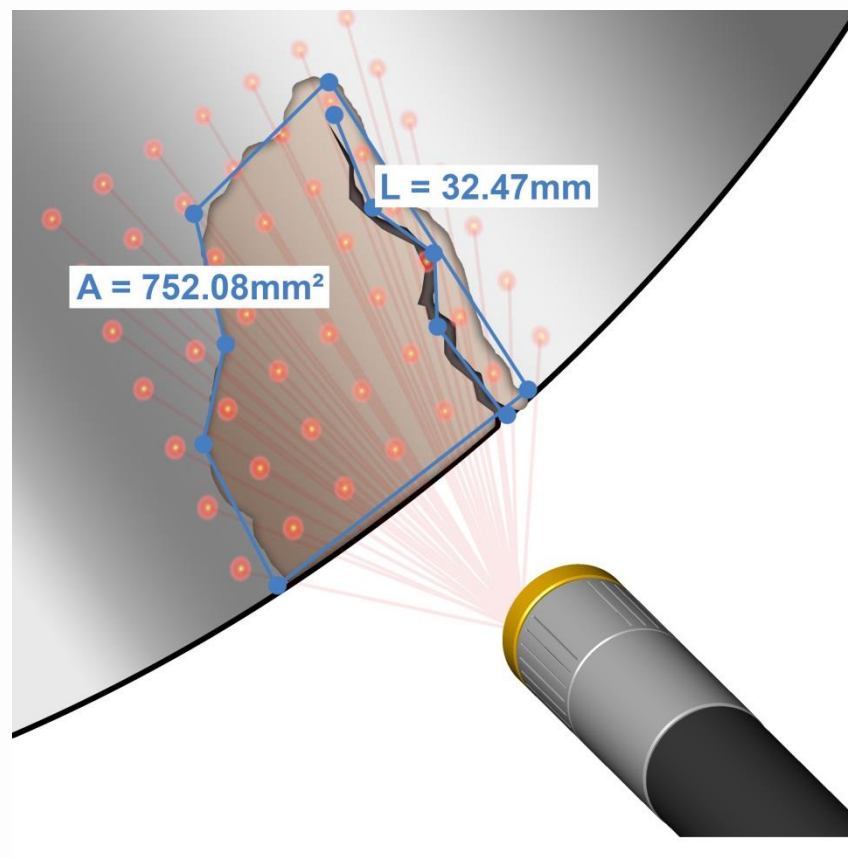


The distal tip is controlled via the new, manual **CLICK4MOVE®** control that features several advantages over the conventional joystick control:

- Lag-free reaction without overtravel
- Direct and accurate control
- Ultrasensitive control, that is, the direct tip deflection does not involve a motor and allows the user to directly "feel" obstacles or blockages

Measurement System

The MULTIPOINT measurement technology is based on microprojectors that generate structured light points on the measured surface. The measured light point data are converted into 3D coordinates that span the surface to be measured. Thanks to structured illumination, textureless and shiny surfaces can be easily measured as well. For rapid generation of the 3D data, the TECHNO PACK® T LED software is additionally supported by proprietary algorithms.





Measurement Types

- Distance measurement
- Line-to-point measurement
- Area measurement
- Multiline measurement
- Depth measurement





The development objective for this project was the realization of a videoscope that at the end replace the 5 mm MP videoscopes product range.

- Light output comparable to 5 mm videoscopes types
- Image quality comparable to 5 mm videoscopes types
- Screwing part for interchangeable tips
- Robust tungsten shaft comparable with 6 mm videoscope types
- Robust distal end design comparable with 6 mm videoscope types
- Robust CLICK4MOVE® Articulation



Videoscope

Set	Diameter	Working length	Deflection	Working channel	Measuring channel	Inclusive
81288015-402	4.4 mm	2 m	4x	without	inclusive	User Manual Carrying Case

MULTIPOINT Interchangeable lenses

Item number	Diameter	Direction of view	Angel of view	Depth of field	Measurement range	MULTIPOINT measuring system	Color code
VP0407WAHMV	4.4 mm	0°	80°	7-40 mm	7-40 mm	X	X
VP0407WDHMV		90°	80°	7-40 mm	7-40 mm		
VP0420WAEMV		0°	50°	20-250 mm	20-80 mm		
VP0420WDEM V		90°	50°	20-250 mm	20-80 mm		

80405CLICK

CLICK4MOVE® flat screen display 7", high-resolution 800 X 600 VGA flat screen, for connection to TECHNO PACK® X/Xe and all CLICK4MOVE® videoscope types, tripod socket to connect Multipurpose Stand 80600 and 80603, TENAX plug for Carrying Strap 80404 G, automatic locking mechanism, lock indicator (open/close), sheath "park" function for all videoscope sheaths and 2m connecting cables





80603

Multi-purpose stand, for stable mounting of endoscopes and cameras, comprising:

Articulated stand with a joint in the middle and ball joints at both ends, fitted with a mounting plate for holding a camera or endoscope grip. Total length 50 cm approx.

The stand can be moved in any direction, and can be locked in any position required using a central fixation screw.



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80600 H

Tension Rod for 80600 + 80603 with Vee guide, for attaching the VIDEOSCOPE to the Multipurpose Stand 80600 +80603



Videoscope accessories



VOX00 CLICK **VIDEOSCOPE CLICK4MOVE™ Holder**, Universal adaptor for all CLICK4MOVE™ VIDEOSCOPE types, socket for Multipurpose Stand 80600 + 80603, TENAX button for Carrying Strap 80404 G, automatic lock mechanism, lock indicator (open/closed), sheath “park” function for all videoscope sheaths, weight: 64 g



80603 B **Floor Stand**, tripod (folding), for installing a stand on a flat surface, for use with Multipurpose Stand 80603 for use with our Multi-purpose stand



80404 G **Carrying Strap for Videoscope**, for VOX00 H or direct attachment to videoscope, length approx. 1.20 m, adjustable



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Color system	PAL
Function keys	TECHNO PACK® settings: Still image, video capture function, manual shutter setting, measuring function, measuring laser settings, or HighGain and zoom function
Integration cable	T-connector, integration cable 2.3 m, video cable 0.7 m
Deflection	4-way deflection (CLICK4MOVE) up/down 140°/140° right/left 140°/140°
Direction of view	0° standard, additional directions of view when using interchangeable lenses
Temperature sensor	Yes
Lens lock	Screw thread



Safety thread	Double safety
Outer diameter of distal tip sheath	4.4mm
Working lengths	2000mm
Temperature range	Sheath in water +10°C – +30°C Sheath in air -10°C – +80°C
Resistance	Watertight up to 1 bar of water pressure
Shaft	Robust tungsten braiding



Thank you for you attention.

Your Focus  Our Scope

Feel free to contact us!

