



FOR MORE
INFORMATION



PORTABLE HANDHELD 6.0/4.0 MM ARTICULATING VIDEOSCOPIES
WITH 1.1 M – 6.6 M WORKING LENGTH
FOR REMOTE VISUAL INSPECTIONS (RVI)

VUCAM[®] XO



THE PORTABLE VIDEOSCOPE VUCAM® XO

MADE IN GERMANY. USED GLOBALLY.

Combining new imaging technologies with field proven industrial videoscope manufacturing, we are able to deliver excellent image capabilities at a very competitive price.



INSPECTION RESULT DOCUMENTATION

A touch on the screen calls the full featured keyboard. The user name, application and findings can be documented outside the inspection image and saved to SD.



UP-TO-DATE TOUCH SCREEN

640 x 480 px, 5.7" high resolution, LED backlight TFT. Modern graphic user interface operation.



DIGITAL IMAGE FREEZE FUNCTION

Freeze an image live or during the recording process to analyze, consult or add text before saving the file for your own documentation.



SNAPSHOTS DURING VIDEO RECORDINGS

Digital JPEG snapshots during the video recording shorten your documentation and post processing effort.



DIRECT DATA RECALL

Is everything complete and in focus? Recall the last saved inspection file with just a tap on the touch screen to ensure your data integrity.

FAST INDUSTRIAL INSPECTIONS

ROBUST AND EASY TO USE

Operated by a modern intuitive touch screen and graphic user interface, the portable videoscope VUCAM® XO sets a new standard for remote visual inspection technology.



ELIMINATE REVISITS WITH FLASHBACK BUFFER RECORDING

Many areas of interest are passed by while inspecting. By the time a potential problem has been realized, revisits are needed for analysis and documentation. Save time & money with the VUCAM® flashback buffer.



DOCUMENTATION ON SD CARD

Perfect documentation of high resolution MPEG4 video recordings and high quality JPG images.



DIRECT ACCESS BUTTONS

Ergonomically located under the fingertip. The most frequently used functions are activated with a simple click.

DESIGNED FOR SIMPLE OPERATION

OPTIMAL ERGONOMICS FOR YOUR INDUSTRY

The portable videoscope VUCAM® XO offers unique hardware features, matching the requirements and desires of industrial applications and users.



FREE TILT DISPLAY

Adjust the display to your desired position for a perfect view of your inspection results.



TIDY, SAFE AND OPTIMISED POSITIONING

Standing solidly when placed on a flat surface or floor, fixed to a magic arm tripod, or hanging on a local part, the VUCAM® offers safe and fatigue free working positions.



CARBON FIBER AND ALUMINIUM CONSTRUCTION

Light weight, robust modern materials. Carbon fibre housing with rubber bumper protection and aluminium construction make the unit fit for the harshest environment.



BATTERY OPERATION

Portable and mains power independent inspections with the field replacable LiFePo high capacity power concept!

LIGHT AND PRECISE

CLASS LEADING 4-WAY ARTICULATION



The VUCAM® XO offers exceptional articulation and luminosity in all situations. To ensure that the VUCAM® XO meets every inspection requirement, there is also a range of easily changeable optical tips.

This enables the VUCAM® XO to be an excellent all rounder with the flexibility to meet the needs of any application.



PRECISE CAMERA CONTROL

The X-WAY 360° articulating camera head precisely controlled by the robust aluminium steering rotors.



HIGH POWER LED LIGHT SOURCE

The high power LED light source provides constant homogenous illumination.









READY TO GO

A COMPLETE INSPECTION SYSTEM IN JUST **ONE** CASE

Keep all of your equipment safe and protected when not in use with the custom designed transport and storage case.



PROBE	4.0 MM	6.0 MM
Diameter	4.0 mm / 0.15"	6.0 mm / 0.23"
Working length	2.2 m / 7.2 ft. 3.3 m / 10.8 ft. 6.6 m / 21.6 ft.	2.2 m / 7.2 ft. 3.3 m / 10.8 ft. 6.6 m / 21.6 ft.
Articulation	160° 120° -	minimum 130° 120° 100°
Construction	Four layer, final layer cut resistat tungsten.	Four layer, final layer cut resistat tungsten.
Direction of view (DOV)	Standard: 0° Optional: 90°	Standard: 0° Optional: 90°
Field of view (FOV)	Standard: 45° Optional: 120° / 45°*	Standard: 45° Optional: 120° / 45°*
Focus range	3 mm to ∞ (depending on optic adapter used).	3 mm to ∞ (depending on optic adapter used).
Illumination type	Special high power hybrid LED glass fiber illumination. Digital phase width light control auto / manual.	Special high power hybrid LED glass fiber illumination. Digital phase width light control auto / manual.
Illumination power	High efficiency LED illumination 6 Watt Daylight quality 6.500 K	High efficiency LED illumination 6 Watt Daylight quality 6.500 K
SYSTEM		
Display	High resolution 5.7" LED backlight TFT display 640 x 480 Pixel Anti glare.	
Display dimensions in mm / inch	(H) 75 / 2.95 x (W) 196 / 7.71 x (D) 73 / 2.87.	
Monitor	Rubber bumper protected carbon fiber construction. Screen shock absorbing floating integrated, dust and splash proof.	
Handpiece	Coated high resistant aluminium handpiece and control knobs, aluminium integral flat surface stand with tilt adjustable display.	
Memory	SD card 8 GB (optional: max. 32 GB).	
Interface	Multi I/O per cable connection.	
Power supply	Battery: 6,4 V Power supply: Input 100 - 240V AC, ouput: 12V, max. 2,5A	
Battery concept	Two field replaceable high power LiFePo batteries. Quick charge technology, charging while the sytsem is operated from mains. The optional external charging unit for recharging spare batteries while working. Charging time below 2 hours. Battery life time depending on operation. LiFePo batteries combine the advantages of Lithium cells (no memory effect, high capacity, low weight) while being safe from self ignition, and thus the system is air transportable.	
Image capturing	Auto stop; autosplit; freeze frame, single image capture, digital video recording.	
Mounting	¼" mounting for operation with standard tripods and magic arms.	
Water and pressure tested	Probe: 1.5 bar / 22 psi fully immersible over the full length. System: System housing IP 54 splash water and dust proof.	
Weight	1.5 kg / 3.3 lbs (1.7 kg / 3.7 lbs with battery), depending on probe length.	
Shock and vibration	Vibration 3 grms random at 20Hz to 2 kHz, 10 min per axis; Shock 50 grms 11 ms half-sine three axis.	
Temperature	Display: Storage -40°C (-40°F) to +85°C (+185°F) Operation -20°C (-4°F) to +70°C (+158°F) Probe: Operating in air -10°C (14°F) to +80°C (176°F) Probe: Operating in water +10°C (+50°F) to +30°C (+86°F)	
Manual	Full operating instructions hard copy.	
SOFTWARE		
User interface	Unique graphic user interface by touch screen. Paralell direct acces buttons ergonomically positioned to control most frequent used functions like image capture, video capture, light control and system on/off. Toggling function to operate the system alternatively just from buttons on the handle.	
Image recording	Digital single JPEG format. Ability to capture images during video recording.	
Resolution	RGB 263.000 colors 640 x 400 px JPEG format.	
Video recording	Video in MPEG4**.	
Flashback Buffer Recording	Buffer 15 sec. Triggerred with video start.	
Text annotation	Text is entered seamlessly with a full size touch keyboard while displayed and captured outside of the inspection image, thus not covering any application detail. Text, date and time can be captured with image and video recording, printer friendly text formats are available.	
Menu	Touch screen menu, handpiece controls, multi language options, real time image brightness, contrast, saturisation, color control; date, time, logo, system status.	
Functions	Image capture, video capture, text entering, easy image and video selection, easy delete, language selection, illumination, immediate activation of the last saved file, fast access data recall, manual white balance, date & time display.	
ACCESSORIES		
Additional batteries and external smart battery charger	One set included in standard scope of delivery. Additional batteries and battery charger optional available.	
Optional tip adapter	0° forward optic: 120° wide angle 90° side view optic: 120° wide angle 90° side view optic: 45° far focus	
Neck strap / wrist strap	Wrist strap included in the scope of delivery (neck strap optional).	
Transport and storage case	Dimensions in mm / inch: (W) 515 / 20.27 x (H) 395 / 15.55 x (D) 190 / 7.48 Weight (empty): 3.3 kg / 7.27 lbs. Transport and storage case for VUCAM® XO inspection system.	
SD card	SD card 8 GB included (FAT formatted). Up to 32 GB (optional).	
Power supply	Included in the scope of delivery. World standard 100 - 240 V.	
Warranty	One year, optional 2 year system warranty and life-time warranty on the light source.***	

* If used with optional optical tip adapters | ** Media Player from Windows® 7.0 or any H.264 format player | *** Typical wear and tear components like articulation cable and insertion tubes and batteries are excluded. Accessories of foreign suppliers will have their own warranty | **** For further specifications, please refer to the operating instructions. | Equipment is not intrinsically safe or explosion-proof. Do not deploy in hazardous atmospheres. | All specifications are subject to change without notice due to technical progress.

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VUCAM[®] XO

XPANDING YOUR VU[®]



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