THE PORTABLE VIDEOSCOPE







FROM Ø 4 MM UP TO 6.6 M PROBE LENGTH



ONE PRODUCT SERIES FOR MULTIPLE PURPOSES



VUCAM' XO/XO

6 mm videoscope with interchangeable optic adapters

Designed for applications starting at Ø 6 mm. Especially useful for weld seam inspections, heat exchanger inspections, plant maintenance, construction supervision, FOSAR, personnel search as well as military and security technology. The VUCAM XO/XO+ is available in probe lengths from 2.2 m to 6.6 m and offers three optional optic adapters.



Optic adapters for 4 mm and 6 mm probes

VUCAM XF/XF

4 mm videoscope with interchangeable optic adapters

Especially suitable for testing thin tubes and pipe bends starting at Ø 4 mm. The VUCAM XF/XF+ is e. g. used for weld seam inspections, gear and bearing inspections, in the wind and water power sector, in the automotive sector as well as in defense and safety engineering. Available in probe lengths from 1.1 m to 6.6 m with two optional side view adapters.



VUCAM' AM/AM[†]

4 mm videoscope without optic adapters

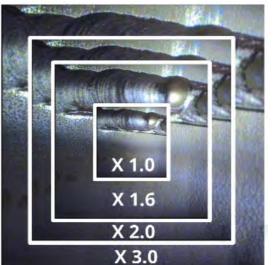
Specifically designed for the automotive industry and optimized for the inspection of narrow cavities starting at Ø 4 mm. The VUCAM AM/AM+ is available in probe lengths from 1.1 m to 3.3 m.

"+" models denote additional features such as TV OUT, video over LAN and PUSH to FTP.



ALL FEATURES AT ONE GLANCE Your productivity is the key criterion for viZaar Every step in the production process is carefully carried out so that each product offers maximum performance and durability. The VUCAM is considered one of the most robust inspection systems on the market. Its housing is made of modern carbon fiber and its handle consists of high quality and light aluminium. This quality allows us to guarantee maximum safety and minimum weight. Therefore, we offer a lifetime warranty on all carbon fiber components of the VUCAM. LIFETIME WARRANTY **COMPONENTS**

QUALITY MEETS PRECISION



DIGITAL ZOOM

Touch the inspection image and benefit from the zoom factors x 1.6, x 2.0 and x 3.0 – for even more details.



OPTIMIZED FOR EVERY ANGLE

OPTIMIZED ERGONOMICS

The VUCAM series has a particularly ergonomic design which allows you to use it in every position without getting tired.

- Integrated mounting hook
- Shoulder strap for perfect weight balance and hands-free operation
- Integrated ¼" adapter for the use of standard tripods and the magic arm
- Tiltable monitor
- Direct access buttons (hot key)
- Flip function
- 180° screen rotation

The result:

All necessary functions in one simple system. This reduces your inspection time while making the inspection more convenient. Your work becomes more efficient and possible downtimes are reduced to a minimum.

FLIP (HORIZONTALLY, VERTICALLY AND BOTH)

The VUCAM is equipped with a number of features for image enhancement in order to improve and simplify your inspection. You can, for example, flip the image on the VUCAM display either horizontally or vertically or both. The FLIP function improves orientation and ergonomics during inspections.

















SCREEN ROTATION

This feature allows for the complete rotation of the screen, including user interface, making it possible to work with the device upside down.







EXTENDED PERSPECTIVES

There are three optic adapters available for the VUCAM XO and two optic adapters for the VUCAM XF to optimally adjust direction of view, field of view and focal range for your individual inspection.

The VUCAM XO is compatible with a number of optic adapters made by other manufacturers. So if you already own other 6 mm optic adapters, you will most likely be able to use them with the VUCAM XO. For further information about compatible models please contact your local viZaar partner.



DOV 90° FOV 120° Focus range 2 - 120 mm
DOV 0° FOV 120° Focus range 3 - 120 mm

■ DOV 90° FOV 45° Focus range 12 mm to ∞

VUCAM XF/XF+ OPTIC ADAPTERS (4 mm)

DOV 90° FOV 85° Focus range 1.5 - 18 mm

DOV 90° FOV 85° Focus range 4 - 100 mm



OPTIC ADAPTERS
4 MM AND 6 MM

DYNAMICS AND ARTICULATION

Flexibility is one of the key requirements for a successful inspection. The VUCAM series offers a full 4 axis articulation up to 160°. The articulation is precise, smooth and simple to use.

MORE LIGHT FOR IMPROVED VISUAL TESTING

Our VUCAM series is equipped with the latest **LED technology**. This ensures the best illumination and color temperature as well as maximum lifetime. The camera head remains cool, even at maximum illumination, thanks to viZaar's special fiber technology.

We offer lifetime warranty on the LED illumination of all VUCAM models.

LIFETIME
WARRANTY
ON THE
LED ILLUMINATION

The exceptional articulation is controlled via two ergonomically designed handwheels. The precise and highly sensitive manual control is superior to any motor-driven camera head articulation. Benefit from the low susceptibility to error of the control mechanism, whereby even the smallest resistance at the probe tip is immediately perceived. Thanks to the direct feedback, the risk of damage is significantly reduced, so is the risk of getting the probe stuck. The design as entirely mechanical articulation without servo motor, we were able to minimize weight and maintenance effort for you.



ALWAYS READY

viZaar offers additional VUCAM spare batteries. It is very simple to replace the batteries on site. The LiFePo batteries are absolutely safe and therefore also suitable for air transport*. Use your VUCAM when, where and as long as you need it.





EVERYTHING IN ITS PLACE

Each VUCAM is delivered in a specially designed and extremely robust transport case. This way, you can be assured that your VUCAM is always secure during shipping and transport. The inspection equipment can easily be stored and is quickly at hand when it's needed.



TECHNICAL DATA	VUCAM XO	VUCAM XO+
Diameter	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.	
Articulation	4x130° - 2.2 m 4x120° - 3.3 m 4x100° - 6.6 m	
Direction of view (DOV)	Standard 0°	
Field of view (FOV)	Standard 45°	
Focal range	15 mm to ∞	
Optional optic adapters	3 available options: DOV: 90°, FOV: 120°, DOF: 2 - 120 mm DOV: 90°, FOV: 45°, DOF: 12 mm - ∞ DOV: 0°, FOV: 120°, DOF: 3 - 120 mm	
Fullscreen mode	✓ Touch screen to activate	
TV-OUT	-	✓ Via VULINK cable
Audio-IN/OUT	•	✓ Via VULINK cable - Headset included, for audio commentary
Video-via-LAN	-	✓ Via VULAN cable - unicast / broadcast / push to FTP
Digital zoom	~	~
FLIP (H / V / B)	✓	•
Screen rotation	~	~
Pre-trigger function	✓	•
	Four layers Torsion-resistant and flexible Final layer: cut resistant tungsten	
Probe construction	Four layers Torsion-resistant and	flexible Final layer: cut resistant tungsten
Probe construction Illumination	• •	flexible Final layer: cut resistant tungsten mination Digital illumination control (auto/manual)
	Special high power hybrid LED glass fiber illur	
Illumination	Special high power hybrid LED glass fiber illur Lifetime warranty High efficiency LED illumin	mination Digital illumination control (auto/manual)
Illumination Luminosity	Special high power hybrid LED glass fiber illur Lifetime warranty High efficiency LED illumin High resolution 5.7" LED backlight T	mination Digital illumination control (auto/manual) nation Color temperature: 6.500 K (daylight quality)
Illumination Luminosity Display	Special high power hybrid LED glass fiber illur Lifetime warranty High efficiency LED illumin High resolution 5.7" LED backlight T (h) 75 x (w) 200 x (d) 128 mm	mination Digital illumination control (auto/manual) nation Color temperature: 6.500 K (daylight quality) FT touchscreen 640 x 480 px anti glare
Illumination Luminosity Display Dimensions display unit	Special high power hybrid LED glass fiber illur Lifetime warranty High efficiency LED illumin High resolution 5.7" LED backlight T (h) 75 x (w) 200 x (d) 128 mm Carbon fibre construction with rubber bumpers: show	mination Digital illumination control (auto/manual) nation Color temperature: 6.500 K (daylight quality) FT touchscreen 640 x 480 px anti glare n / (h) 2.95 x (w) 7.87 x (d) 5.04 inch
Illumination Luminosity Display Dimensions display unit Monitor	Special high power hybrid LED glass fiber illum Lifetime warranty High efficiency LED illumin High resolution 5.7" LED backlight T (h) 75 x (w) 200 x (d) 128 mm Carbon fibre construction with rubber bumpers: show	mination Digital illumination control (auto/manual) nation Color temperature: 6.500 K (daylight quality) FT touchscreen 640 x 480 px anti glare n / (h) 2.95 x (w) 7.87 x (d) 5.04 inch ck absorption for display Dust and splash water protected
Illumination Luminosity Display Dimensions display unit Monitor Handle	Special high power hybrid LED glass fiber illum Lifetime warranty High efficiency LED illumin High resolution 5.7" LED backlight T (h) 75 x (w) 200 x (d) 128 mm Carbon fibre construction with rubber bumpers: show Handle and articulation control SD card 16 GB LiFePo Battery 6.4 V Mains input 100 - 240 VAC 50/66	mination Digital illumination control (auto/manual) nation Color temperature: 6.500 K (daylight quality) FT touchscreen 640 x 480 px anti glare n / (h) 2.95 x (w) 7.87 x (d) 5.04 inch ck absorption for display Dust and splash water protected I coated with high-strength aluminium
Illumination Luminosity Display Dimensions display unit Monitor Handle Data storage	Special high power hybrid LED glass fiber illum Lifetime warranty High efficiency LED illumin High resolution 5.7" LED backlight T (h) 75 x (w) 200 x (d) 128 mm Carbon fibre construction with rubber bumpers: show Handle and articulation control SD card 16 GB LiFePo Battery 6.4 V Mains input 100 - 240 VAC 50/60	mination Digital illumination control (auto/manual) nation Color temperature: 6.500 K (daylight quality) FT touchscreen 640 x 480 px anti glare n / (h) 2.95 x (w) 7.87 x (d) 5.04 inch ck absorption for display Dust and splash water protected I coated with high-strength aluminium (optional up to 32 GB) 0 Hz, output 12 VDC max. 2.5 A Battery replacement on site
Illumination Luminosity Display Dimensions display unit Monitor Handle Data storage Power supply	Special high power hybrid LED glass fiber illum Lifetime warranty High efficiency LED illumin High resolution 5.7" LED backlight T (h) 75 x (w) 200 x (d) 128 mm Carbon fibre construction with rubber bumpers: show Handle and articulation control SD card 16 GB LiFePo Battery 6.4 V Mains input 100 - 240 VAC 50/60 Air transportable Charge	mination Digital illumination control (auto/manual) nation Color temperature: 6.500 K (daylight quality) FT touchscreen 640 x 480 px anti glare n / (h) 2.95 x (w) 7.87 x (d) 5.04 inch ck absorption for display Dust and splash water protected I coated with high-strength aluminium (optional up to 32 GB) 0 Hz, output 12 VDC max. 2.5 A Battery replacement on site e during operation Quick charge
Illumination Luminosity Display Dimensions display unit Monitor Handle Data storage Power supply Image and video recording	Special high power hybrid LED glass fiber illum Lifetime warranty High efficiency LED illumin High resolution 5.7" LED backlight T (h) 75 x (w) 200 x (d) 128 mm Carbon fibre construction with rubber bumpers: show Handle and articulation control SD card 16 GB LiFePo Battery 6.4 V Mains input 100 - 240 VAC 50/66 Air transportable Charge Pre-trigger recording ¼" mounting for operation with sta Water and pressure tested Probe: 1.5	mination Digital illumination control (auto/manual) nation Color temperature: 6.500 K (daylight quality) FT touchscreen 640 x 480 px anti glare n / (h) 2.95 x (w) 7.87 x (d) 5.04 inch ck absorption for display Dust and splash water protected I coated with high-strength aluminium (optional up to 32 GB) O Hz, output 12 VDC max. 2.5 A Battery replacement on site e during operation Quick charge Freeze MPEG and JPEG files
Illumination Luminosity Display Dimensions display unit Monitor Handle Data storage Power supply Image and video recording Mounting	Special high power hybrid LED glass fiber illum Lifetime warranty High efficiency LED illumin High resolution 5.7" LED backlight T (h) 75 x (w) 200 x (d) 128 mm Carbon fibre construction with rubber bumpers: show Handle and articulation control SD card 16 GB LiFePo Battery 6.4 V Mains input 100 - 240 VAC 50/60 Air transportable Charge Pre-trigger recording ¼" mounting for operation with sta Water and pressure tested Probe: 1.5 System: IP 54 splash	mination Digital illumination control (auto/manual) nation Color temperature: 6.500 K (daylight quality) FT touchscreen 640 x 480 px anti glare n / (h) 2.95 x (w) 7.87 x (d) 5.04 inch ck absorption for display Dust and splash water protected I coated with high-strength aluminium (optional up to 32 GB) O Hz, output 12 VDC max. 2.5 A Battery replacement on site e during operation Quick charge Freeze MPEG and JPEG files Indard tripods and magic arms Manfrotto® S bar fully immersible over the full length IP 68
Illumination Luminosity Display Dimensions display unit Monitor Handle Data storage Power supply Image and video recording Mounting Integrity	Special high power hybrid LED glass fiber illum Lifetime warranty High efficiency LED illumin High resolution 5.7" LED backlight T (h) 75 x (w) 200 x (d) 128 mm Carbon fibre construction with rubber bumpers: show Handle and articulation control SD card 16 GB LiFePo Battery 6.4 V Mains input 100 - 240 VAC 50/60 Air transportable Charge Pre-trigger recording 1/4" mounting for operation with sta Water and pressure tested Probe: 1.5 System: IP 54 splash > 1.5 kg incl.	mination Digital illumination control (auto/manual) nation Color temperature: 6.500 K (daylight quality) FT touchscreen 640 x 480 px anti glare In / (h) 2.95 x (w) 7.87 x (d) 5.04 inch I coated with high-strength aluminium I coated with high-strength aluminium I coptional up to 32 GB) I coated with 12 VDC max. 2.5 A Battery replacement on site eduring operation Quick charge Freeze MPEG and JPEG files Indiand tripods and magic arms Manfrotto I bar fully immersible over the full length IP 68 In water and dust protected

Are you missing the ideal configuration, e. g. a different probe length, for your individual application?

Contact us! viZaar is specialized in the development of customized special solutions. We will gladly assist and advise you.



VUCAM XF/XF

TECHNICAL DATA	VUCAM XF	VUCAM XF+
Diameter	4.0 mm	/ 0.15"
Working length	1.1 m / 3.61 ft. 2.2 m / 7.2 ft. 3.3 m / 10.8 ft. 6.6 m / 21.7 ft.	
Articulation	4x160° 4x80° - 6.6 m	
Direction of view (DOV)	Standard 0°	
Field of view (FOV)	Standard 85°	
Focal range	4 mm to 200 mm	
Optional optic adapters	2 available options: DOV: 90°, FOV: 85°, DOF: 1.5 - 18 mm DOV: 90°, FOV: 85°, DOF: 4 - 100 mm	
Fullscreen mode	✓ Touch screen to activate	
TV-OUT	-	✓ Via VULINK cable
Audio-IN/OUT	-	✓ Via VULINK cable - Headset included, for audio commentary
Video-via-LAN	-	✓ Via VULAN cable - unicast / broadcast / push to FTP
Digital zoom	✓	✓
FLIP (H / V / B)	✓	~
Screen rotation	✓	~
Adjustable buffer	~	~
Probe construction	Four layers Torsion-resistant and flexible Final layer: cut resistant tungsten	
Illumination	Special high power hybrid LED glass fiber illumination Digital illumination control (auto/manual)	
Luminosity	Lifetime warranty High efficiency LED illumination Color temperature: 6.500 K (daylight quality)	
Display	High resolution 5.7" LED backlight TFT touchscreen 640 x 480 px Anti glare	
Dimensions display unit	(h) 75 x (w) 200 x (d) 128 mm / (h) 2.95 x (w) 7.87 x (d) 5.04 inch	
Monitor	Carbon fibre construction with rubber bumpers: shock absorption for display Dust and splash water protected	
Handle	Handle and articulation control coated with high-strength aluminium	
Data storage	SD card 16 GB (optional up to 32 GB)	
Power supply	LiFePo Battery 6.4 V Mains input 100 - 240 VAC 50/60 Hz, output 12 VDC max. 2.5 A Battery replacement on site Air transportable Charge during operation Quick charge	
Image and video recording	Pre-trigger recording Freeze MPEG and JPEG files	
Mounting	1/4" mounting for operation with standard tripods and magic arms Manfrotto®	
Integrity	Water and pressure tested Probe: 1.5 bar fully immersible over the full length IP 68 System: IP 54 splash water and dust protected	
Weight	> 1.5 kg incl. battery , plus probe	
Shock resistance	Vibration 3 grms random at 20Hz to 2 kHz, 10 min per axis; Shock 50 grms 11 ms half-sine three axis	
Temperature	System in operation: -20°C (-4°F) to +50°C (+122°F), storage: -40°C (-40°F) to +70°C (+158°F) Probe in operation: -10°C (+14°F) to +80°C (+176°F)	

VUCAM' AM/AM[†]

TECHNICAL DATA	VUCAM AM	VUCAM AM+
Diameter	4.0	mm / 0.15"
Working length	1.1 m / 3.61 ft. 2.2 m / 7.2 ft. 3.3 m / 10.8 ft.	
Articulation		4x160°
Direction of view (DOV)	Sta	andard 0°
Field of view (FOV)	Sta	andard 40°
Focal range	15 mm to ∞	
Optional optic adapters		-
Fullscreen mode	✓ Touch s	screen to activate
TV-OUT	-	✓ Via VULINK cable
Audio-IN/OUT	-	✓ Via VULINK cable - Headset included, for audio commentary
Video-via-LAN	-	✓ Via VULAN cable - unicast / broadcast / push to FTP
Digital zoom	•	•
FLIP (H / V / B)	•	•
Screen rotation	•	•
Pre-trigger function	•	•
Probe construction	Four layers Torsion-resistant and flexible Final layer: cut resistant tungsten	
Illumination	Special high power hybrid LED glass fiber illumination Digital illumination control (auto/manual)	
Luminosity	Lifetime warranty High efficiency LED illumination Color temperature: 6.500 K (daylight quality)	
Display	High resolution 5.7" LED backlight TFT touchscreen 640 x 480 px Anti glare	
Display dimensions	(h) 75 x (w) 200 x (d) 128 mm / (h) 2.95 x (w) 7.87 x (d) 5.04 inch	
Monitor	Carbon fibre construction with rubber bumpers: shock absorption for display Dust and splash water protected	
Handle	Handle and articulation control coated with high-strength aluminium	
Data storage	SD card 16 GB (optional up to 32 GB)	
Power supply	LiFePo Battery 6.4 V Mains input 100 - 240 VAC 50/60 Hz, output 12 VDC max. 2.5 A Battery replacement on site Air transportable Charge during operation Quick charge	
Image and video recording	Pre-trigger recording Freeze MPEG and JPEG files	
Mounting	¼" mounting for operation with standard tripods and magic arms Manfrotto [©]	
Integrity	Water and pressure tested Probe: 1.5 bar fully immersible over the full length IP 68 System: IP 54 splash water and dust protected	
Weight	> 1.5 kg incl. battery, plus probe	
Shock resistance	Vibration 3 grms random at 20Hz to 2 kHz, 10 min per axis; Shock 50 grms 11 ms half-sine three axis	
Temperature	System in operation: -20°C (-4°F) to +50°C (+122°F), storage: -40°C (-40°F) to +70°C (+158°F) Probe in operation: -10°C (+14°F) to +80°C (+176°F)	

OPTIONAL ACCESSORY

S PREMIUMD

PRO

XO PRO KIT:

Battery charger
Optic adapter storage box
Side view optic adapter 90° DOV, 120° FOV
Straight view optic adapter 0° DOV, 120° FOV
32GB SD card
VUCAM spare batteries (LiFePo)
Shoulder strap
Screen protector

XF PRO KIT:

Battery charger
Optic adapter storage box
Side view optic adapter:
90° DOV, 85° FOV (1.5 - 18 mm)
32GB SD card
VUCAM spare batteries (LiFePo)
Shoulder strap
Screen protector

XO PREMIUM KIT:

Battery charger
Optic adapter storage box
Side view optic adapter 90° DOV, 120° FOV
Straight view optic adapter 0° DOV, 120° FOV
Side view optic adapter 90° DOV, 45° FOV
2x 32GB SD card
VUCAM spare batteries (LiFePo)
Shoulder strap
2x screen protector

XF PREMIUM KIT:

Battery charger
Optic adapter storage box
2x side view optic adapter:
90° DOV, 85° FOV (1.5 - 18 mm)
90° DOV, 85° FOV (4 - 100 mm)
2x 32GB SD card
VUCAM spare batteries (LiFePo)
Shoulder strap
2x screen protector

www.vizaar.com



CAIV

XPANDING YOU



viZaar industrial imaging AG

Headquarter
Hechinger Straße 152
72461 Albstadt / Germany
Tel.: +49 7432 98375-0
Fax: +49 7432 98375-50
Freecall 0800 3600371 (only within Germany) info@vizaar.com

OUR SALES AND SERVICE OFFICES

Sales and Service Office 46348 Raesfeld / Germany Tel.: +49 170 5703130

viZaar industrial imaging AG VT Service / Rental Service / Sales / Training Center Lupusstraße 17 35789 Weilmünster-Wolfenhausen / Germany Tel.: +49 6475 91129-0 Fax: +49 6475 91129-29

viZaar North

Sales and Service Office 25361 Krempe / Germany Tel.: +49 171 5524094

viZaar South

Sales and Service Office 88171 Weiler-Simmerberg / Germany Tel.: +49 172 6019601



viZaar industrial imaging SA

3 rue Lambert 3 rue Lamoert Parc Lavoisier 91410 Dourdan / France Tel.: +33 1608 11818 Fax: +33 1645 99573 www.vizaar.fr info@vizaar.fr



viZaar Russia & CIS

197022, St. Petersburg / Russia Professora Popova 37B Tel. : +7 9852220677 www.vizaar.ru info@vizaar.ru



viZaar South-East Asia Sdn. Bhd.

VIZABI SOULTE BLAND SUIT. BIBL.
2A Lrg Desa Utama Jin Masjid Kayu
Ara PJU 6
47400 Petaling Jaya Selangor / Malaysia
Tel.: +603 772 217-10
Fax: +603 772 217-10 www.vizaarsea.com.mv info@vizaarsea.com.my

