



FOR MORE  
INFORMATION



DESIGNED FOR PERFORMANCE.  
BUILT TO LAST.

# VUCAM<sup>®</sup>

PORTABLE VIDEOSCOPE RANGE

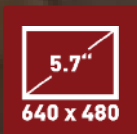
# THE LATEST GENERATION OF THE ULTIMATE PORTABLE VIDEOSCOPE INSPECTION SYSTEM

The VUCAM portable videoscope product range has been developed by viZaar, a globally recognised world leader in RVI products, to be the very best in the portable videoscope market.

In this competitive marketplace, you have to strive to achieve:

- High performance but affordable
- Portable but fully functional
- Flexible but torsionally stiff
- Lightweight but tough

The VUCAM product range meets all of these key criteria and more besides, because it was developed by engineers, for engineers.



# THE NEW VUCAM PRODUCT RANGE

## VUCAM<sup>®</sup> XO/ XO<sup>+</sup>

### 6mm Exchangeable Tip Videoscope

Engineered to meet EVERY 6mm application with a full range of exchangeable tips



## VUCAM<sup>®</sup> AM/ AM<sup>+</sup>

### 4mm Fixed Tip Videoscope

Engineered specifically for ALL Automotive applications and optimised for smaller cavity/diameter inspections.



+ Models denote extra features including TV OUT, Video over LAN and PUSH to FTP.



# QUALITY IS IN EVERY SINGLE FIBRE OF OUR PRODUCTS

Product quality is a key criteria for viZaar. Every possible effort is made to ensure that every product performs to its maximum potential for the longest time possible.

The housing of the VUCAM product range is manufactured from carbon fibre. The reason is simple. It offers maximum protection at a minimum weight.

In fact, viZaar are so confident in the performance of this housing, that all VUCAM products have a LIFETIME warranty on all carbon fibre components.

# VIEW MORE WITH THE VUCAM



## VIDEO OVER LAN

If you need a second opinion on your inspection or require the inspection to be remotely monitored, the VUCAM is equipped with VIDEO OVER LAN functionality. This enables you to connect the VUCAM to a network via an ethernet cable and stream the video to either a broadcast (multiple viewers) or unicast (single viewer only).



## VIDEO OUT FUNCTION

IF you need to use the VUCAM in a fixed environment, you may wish to improve the ergonomics by using a secondary monitor. The VUCAM is equipped with a analog Video-OUT connection to allow you to connect to a monitor of your choice.



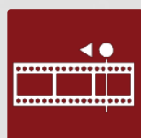
## PUSH TO FTP

Using this ethernet connection, you can also use PUSH TO FTP to automatically store any images or videos captured during the inspection to a destination of your choice. This allows for instant remote viewing of all captured data without interfering with the inspection process.



## AUDIO NARRATION

The VUCAM now provides the ability for the user to record an audio narration over the inspection which is included within the video file.



## PRE-TRIGGER RECORDING

Pre-Trigger recording is a key feature as it ensures that you capture EVERYTHING that you needs to inspect. Every time you press record to begin capturing a video, the VUCAM also includes as standard the previous 30 seconds of inspection. This Pre-Trigger is also adjustable from 0 to 30 seconds via the integrated menu.

# FULLY FUNCTIONAL AND EASY TO USE

As expected of a quality product, the VUCAM range is fully loaded with a wide range of features and functions.

All of these features are integrated into a simple, intuitive and easy to use touchscreen based user interface.

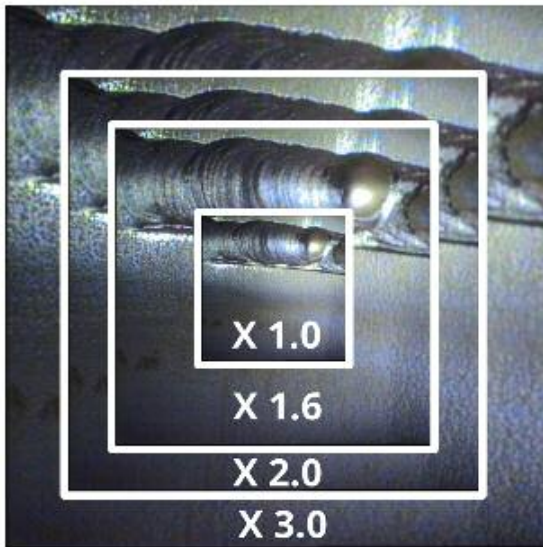


# FLEXIBLE VIEWING



## FULL SCREEN MODE

The VUCAM offers the user the choice to view the image with an information bar (default) or by simply tapping the screen, view the image in full screen.



## DIGITAL ZOOM

If you need to see anything in greater detail, the VUCAM is equipped with a digital zoom function. Simply tap the touchscreen to zoom the image in stages by factors of 1.6, 2.0 or 3.0





# THE ECONOMICS OF ERGONOMICS

The VUCAM product range has been designed to be as ergonomic as possible in EVERY position:

- Integrated Mounting Hook
- Integrated Mounting Thread (for use with magic arm, tripod etc)
- Tilting main screen
- Quick Access Buttons (for 'hot' functions)
- FLIP (vertical and horizontal)
- Screen Rotate (allows for device to be fully functional when inverted)

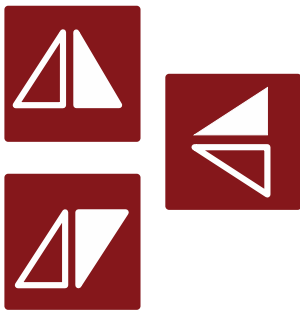
The reasoning behind these key features is simple, meet every application need, reduce user fatigue, put every function in a simple and easily accessible place and the inspection is FASTER. The faster the inspection, the more efficient your workforce, the quicker you can have your machinery up and running once again. After all, time IS money.



# OPTIMISED FOR ALL APPLICATIONS

## FLIP (horizontal, vertical and both)

The VUCAM is equipped with several image manipulation features to enhance and simplify your inspection. The FLIP feature can be used to invert the image across either a horizontal or vertical axis or both. This serves to enhance orientation and ergonomics during an inspection.



## FULL SCREEN ROTATION

Full screen rotation differs from FLIP in that it rotates the entire screen and re-orientates the touch screen overlay. This allows the VUCAM to have full functionality even if it is fully inverted.



# CHANGE IS GOOD

As expected of a quality product, the VUCAM range is fully loaded with a wide range of features and functions.

To add even more operational capability to the VUMAN product range, on the 'X' models, changeable tips are also included.

This enables the videoscope to alter the direction of view (DOV) to side view (90°) and even the field of view (FOV) from 45° to 120°.

This increased capability ensures that you can meet EVERY operational need for your application intuitive and easy to use touch-screen based user interface.

If you already have existing exchangeable tips for the GE® XL VU, XL Go, or the XL G3\*, these will fit and can be used with the VUCAM XO.



# MOMENTUM DEMANDS MOVEMENT

One of the defining inspection requirements is movement, or more precisely, articulation. The VUCAM product range features full 4 way articulation of up to 160° in all directions. It is also designed to be as robust as possible and is recognised as one of the most durable systems on the market. Most importantly though, the articulation is smooth, proportional, precise and simple to use via the control wheels.



The real key feature of the VUCAM product range articulation is the fact that the direct connection, manual articulation system offers 'feel'. No artificial system is employed and any resistance felt on the wheels is proportionally representative of the forces at the very tip of the videoscope. The benefit of this is that you are much less likely to cause damage to the inspection area, or, even worse, get your videoscope stuck in the very object that you are inspecting.



# IN VISUAL INSPECTION, LIGHT IS EVERYTHING

The VUCAM has integrated the very latest in LED technology to ensure class leading levels of light, optimum light temperature and maximum lifetime. In fact, viZaar are so confident in the performance of this light source, that all VUCAM products have a LIFETIME warranty on the LED light source.

# FIELD REPLACEABLE, AIR TRANSPORTABLE

Spare standard batteries can be purchased to allow for quick and simple in-field changes to take place. The batteries are LiFePo which are safe to transport by air.

This ensures that you can use your VUCAM product for as LONG as you want, WHENEVER and WHEREVER you want.



  SAFE TO TRANSPORT -  
NO LITHIUM!



## A PLACE FOR EVERYTHING

Each VUCAM product is supplied with a custom built case with laser cut storage compartments. This ensures that you can move your product around safely during shipping and transport, perform inventory quickly and easily, but most importantly, ensures that you have everything you need for your application all in one place.



# OPTIONAL ACCESSORY KITS

## **XO PREMIUM KIT:**

Battery Charger  
Tip Storage Case  
Side View Tip 90° DOV / 120° FOV  
Forward View Tip 0° DOV / 120° FOV  
Side View Tip 90° DOV / 45° FOV  
32GB SD Card  
VUCAM Spare Battery (LiFePO)  
Neck Strap  
2 Touchscreen Protective Foil

## **XO PRO KIT:**

Battery Charger  
Tip Storage Case  
Side View Tip 90° DOV / 120° FOV  
Forward View Tip 0° DOV / 120° FOV  
32GB SD Card  
VUCAM Spare Battery (LiFePO)  
Neck Strap  
Touchscreen Protective Foil



# VUCAM<sup>®</sup> XO/XO<sup>+</sup>

TECHNICAL SPECIFICATION	VUCAM XO	VUCAM XO+
<b>Diameter</b>	6.0 mm / 0.23"	6.0 mm / 0.23"
<b>Working length</b>	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.
<b>OEM Tip Adapters</b>	3 available as options: -90° DOV 120° FOV   90° DOV 45° FOV   0° DOV 120° FOV	3 available as options: -90° DOV 120° FOV   90° DOV 45° FOV   0° DOV 120° FOV
<b>Compatible Tip Adapters</b>	All XLG3, XLVU & XLGO tip adapters WILL fit on the VUCAM XO 6mm	All XLG3, XLVU & XLGO tip adapters WILL fit on the VUCAM XO 6mm
<b>Direction of view (DOV)</b>	Standard 0° forward	Standard 0° forward
<b>Field of view (FOV)</b>	Standard 45°	Standard 45°
<b>Articulation</b>	4 x 130° - 2.2m   4 x 120° - 3.3m   4 x 100° - 6.6m	4 x 130° - 2.2m   4 x 120° - 3.3m   4 x 100° - 6.6m
<b>Fullscreen-Mode</b>	YES-Touch screen to activate	✓ - Touch screen to activate
<b>TV-OUT</b>	-	✓ - Via VULINK Cable
<b>Audio-IN/OUT</b>	-	✓ - Via VULINK Cable - Headset included
<b>VIDEO OVER LAN</b>	-	✓ - Via VULAN Cable - UNICAST / BROADCAST / PUSH TO FTP
<b>Digital Zoom</b>	✓	✓
<b>FLIP (H / V / B)</b>	✓	✓
<b>Screen Rotation</b>	✓	✓
<b>VULINK Cable</b>	-	✓ - Single connection cable (IN) with TV OUT / Audio IN/OUT
<b>VULAN Cable</b>	-	✓ - Ethernet Connection
<b>Adjustable Buffer</b>	✓	✓
<b>Probe Construction</b>	Four layers   torsion-resistant and flexible	Finale layer cut resistant tungsten
<b>Focus range</b>	3 mm to ∞ using the range of optical tip adapters	
<b>Illumination</b>	Special high power hybrid LED glass fiber illumination	digital illumination control (auto/manual)
<b>Luminosity</b>	Lifetime warranty   High efficiency LED illumination   6 Watt	color temperature: 6.500 K (daylight quality)
<b>Display</b>	High resolution 5,7" LED backlight TFT touch screen   640 x 480 px   anti glare	
<b>Display dimensions</b>	(h) 75 x (b) 196 x (t) 73 mm / (h) 0.25 x (b) 0.64 x (t) 0.24 ft	
<b>Monitor construction</b>	Rubber bumper protectet carbon fibre construction	screen shock   absorbing floating integrated   dust ans splash proof
<b>Handle construction</b>	Coated high resistant aluminium handpiece and steering knobs   aluminium	
<b>Data Storage</b>	SD card 8 GB supplied (max 32 GB)	
<b>Power Supply</b>	LiFePO Battery 6.4 V   mains input 100-240VA output 12 VDC max. 2.5AMP	Field replacement unit   Air transportable   Charge and use facility   Quick charge facility
<b>Image and Video Recording</b>	Autostop   Autosplit   Freeze   MPEG and JPEG file Format	
<b>Mounting</b>	¼" mounting for operation with standard tripods and magic arms Manfrotto®	
<b>Integrity</b>	Water and pressure tested   Probe 1.5 bar   2.5 psi fully immersible over the full length	system - IP 54 splash proof and dust proof
<b>Weight</b>	1.2kg (1.5kg incl. battery)	
<b>Shock Resistance</b>	Vibration 3 grms random at 20Hz to 2 kHz, 10 min per axis; Shock 50 grms 11 ms half-sine three axis.	
<b>Operating Temperature</b>	System-Storage -40°C (-40°F) to +85°C (+185°F)   Probe: Operating in air -10°C (14°F) to +80°C (176°F)	Operation -20°C (-4°F) to +70°C (+158°F)   Probe: Operating in water max. 70°C (+158°F)
<b>Operating Instructions</b>	Full version hard copy supplied with unit. Electronic version supplied on SD card. Downloads available at <a href="http://www.vizzar.com">www.vizzar.com</a>	

\* 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<sup>®</sup> AM/AM<sup>+</sup>

TECHNICAL SPECIFICATION	VUCAM AM	VUCAM AM+
<b>Diameter</b>	4.0 mm / 0.15"	4.0 mm / 0.15"
<b>Working length</b>	1.1 m / 3.61 ft.   2.2 m / 7.2 ft.   3.3 m / 10.8 ft.	1.1 m / 3.6 ft.   2.2 m / 7.2 ft.   3.3 m / 10.8 ft.
<b>OEM Tip Adapters</b>	-	-
<b>Compatible Tip Adapters</b>	-	-
<b>Direction of view (DOV)</b>	0°	0°
<b>Field of view (FOV)</b>	40°	40°
<b>Articulation</b>	4 x 160°	4 x 160°
<b>Fullscreen-Mode</b>	YES-Touch screen to activate	✓ - Touch screen to activate
<b>TV-OUT</b>	-	✓ - Via VULINK Cable
<b>Audio-IN/OUT</b>	-	✓ - Via VULINK Cable - Headset included
<b>VIDEO OVER LAN</b>	-	✓ - Via VULAN Cable - UNICAST / BROADCAST / PUSH TO FTP
<b>Digital Zoom</b>	✓	✓
<b>FLIP (H / V / B)</b>	✓	✓
<b>Screen Rotation</b>	✓	✓
<b>VULINK Cable</b>	-	✓ - Single connection cable (IN) with TV OUT / Audio IN/OUT
<b>VULAN Cable</b>	-	✓ - Ethernet Connection
<b>Adjustable Buffer</b>	✓	✓
<b>Probe Construction</b>	Four layers   torsion-resistant and flexible	Finale layer cut resistant tungsten
<b>Focus range</b>	15 mm to ∞	
<b>Illumination</b>	Special high power hybrid LED glass fiber illumination   digital illumination control (auto/manual)	
<b>Luminosity</b>	Lifetime warranty   High efficiency LED illumination   6 Watt   color temperature: 6.500 K (daylight quality)	
<b>Display</b>	High resolution 5,7" LED backlight TFT touch screen   640 x 480 px   anti glare	
<b>Display dimensions</b>	(h) 75 x (b) 196 x (t) 73 mm / (h) 0.25 x (b) 0.64 x (t) 0.24 ft	
<b>Monitor construction</b>	Rubber bumper protectet carbon fibre construction   screen shock   absorbing floating integrated   dust ans splash proof	
<b>Handle construction</b>	Coated high resistant aluminium handpiece and steering knobs   aluminium	
<b>Data Storage</b>	SD card 8 GB supplied (max 32 GB)	
<b>Power Supply</b>	LiFePO Battery 6.4 V   mains input 100-240VA output 12 VDC max. 2.5AMP   Field replacement unit   Air transportable   Charge and use facility   Quick charge facility	
<b>Image and Video Recording</b>	Autostop   Autosplit   Freeze   MPEG and JPEG file Format	
<b>Mounting</b>	¼" mounting for operation with standard tripods and magic arms Manfrotto <sup>®</sup>	
<b>Integrity</b>	Water and pressure tested   Probe 1.5 bar   2.5 psi fully immersible over the full length   system - IP 54 splash proof and dust proof	
<b>Weight</b>	1.2kg (1.5kg incl. battery)	
<b>Shock Resistance</b>	Vibration 3 grms random at 20Hz to 2 kHz, 10 min per axis; Shock 50 grms 11 ms half-sine three axis.	
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<b>Operating Instructions</b>	Full version hard copy supplied with unit. Electronic version supplied on SD card. Downloads available at <a href="http://www.vizzar.com">www.vizzar.com</a>	

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# VUCAM<sup>®</sup>

## XPANDING YOUR VU<sup>®</sup>



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