



CATALOGUE

VIDEOSCOPES & VIDEO ENDOSCOPES

VIDEOSCOPES • VIDEO ENDOSCOPES • ACCESSORIES

REVISION 2.2



CHOOSE THE FITTING EQUIPMENT

This catalogue provides you with a wide range of videoscopes, video endoscopes and its accessories.



DIAMETER

Choose the closest outer diameter of your probe to the inner diameter of your application. The right choice keeps the costs low and the image quality high, as well as enabling a robust stability inside the application.



WORKING LENGTH

To work without major interference, choose the correct working length necessary.

IMAGE PRESENTATION

Consider direction of view (DOV), field of view (FOV) and depth of field for the desired point of interest.

Most Remote Visual Inspection tasks are solved with viZaar®'s recommended industrial video endoscopes. Image processing happens in the optic of the probe head, enabling high image quality and stability.







+49 7432 98375-0 Call us with your specific requirements.



INFO@VIZAAR.COM Write us your detailed application description.



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Find your official sales & service distributor online.

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Configuration 1	VISIO SONDEN	>	VISIO BOX	>	MONITOR
Configuration 2	VISIO SONDEN	>	VISIO BOX	>	PC / LAPTOP
Configuration 3	VISIO SONDEN	>			
Configuration 4	VISIO SONDEN	>	VISIO BOX	>	MATRIX 53 MATRIX E3
Configuration 5	VISIO SONDEN	>	VISIO BOX	>	VUMAN VUMAN®

An industrial videoscope platform combining flexible, interchangeable probe ranges with high image quality at minimal costs. VISIO is well suited in production line and stationary applications. It is a modular system:

VISIO DOC: Full operating system with image presentation, image and video recording on a SD card.

VISIO BOX: The probes are connected to a small desktop box containing all video electronics. Depending on the needs, the image presentation is either realized by a simple video monitor, a PC or a laptop.

VISIO BOX is compatible with $\mathsf{MATRIX}^{\circledast}$ and $\mathsf{VUMAN}^{\circledast}$ system for advanced documentation.





OUTER Ø	LENGTH	ARTICULATION	FOV	DOV	PROBE MATERAL	SYSTEM-KIT
3.7 mm	1200 mm	2 x 140°	85°	0°	Tungsten	HVT-70-000161
3.7 mm	2200 mm	2 x 110°	85°	0°	Tungsten	HVT-70-000162
3.7 mm	3000 mm	2 x 80°	85°	0°	Tungsten	HVT-70-000163
4.0 mm	1200 mm	2 x 140°	85°	0°	Tungsten	HVT-70-000164
4.0 mm	2200 mm	2 x 110°	85°	0°	Tungsten	HVT-70-000165
4.0 mm	3000 mm	2 x 80°	85°	0°	Tungsten	HVT-70-000166
6.0 mm	2200 mm	4 x 140°	40°	0°	Tungsten	HVT-70-000167
6.0 mm	3300 mm	4 x 130°	40°	0°	Tungsten	HVT-70-000168
6.0 mm	6600 mm	4 x 110°	40°	0°	Tungsten	HVT-70-000169

Full operating system with image presentation, image and video recording on a SD card. Powered

VISIO DOC system kits

Including:

- VISIO documentation system
- High power, longlife LED light source
- S-Video cable
- Composite cable
- Power supply
- VISIO P2 probe



VISIO BOX system kits

Including:

- VISIO BOX unit
- High power, longlife LED light source
- S-Video cable
- Composite cable
- Power supply
- VISIO P2 probe

OUTER Ø	LENGTH	ARTICULATION	FOV	DOV	PROBE MATERIAL	SYSTEM-KIT
3.7 mm	1200 mm	2 x 140°	85°	0°	Tungsten	HVT-70-000152
3.7 mm	2200 mm	2 x 110°	85°	0°	Tungsten	HVT-70-000153
3.7 mm	3000 mm	2 x 80°	85°	0°	Tungsten	HVT-70-000154
4.0 mm	1200 mm	2 x 140°	85°	0°	Tungsten	HVT-70-000155
4.0 mm	2200 mm	2 x 110°	85°	0°	Tungsten	HVT-70-000156
4.0 mm	3000 mm	2 x 80°	85°	0°	Tungsten	HVT-70-000157
6.0 mm	2200 mm	4 x 140°	40°	0°	Tungsten	HVT-70-000158
6.0 mm	3300 mm	4 x 130°	40°	0°	Tungsten	HVT-70-000159
6.0 mm	6600 mm	4 x 110°	40°	0°	Tungsten	HVT-70-000160

Benefit from the pre-selected system kits

Benefit from the pre-selected system kits

by rechargeable battery (operating time: min. 2 h).

High performance low budget solutions. Powered from mains, providing a high quality video image for presentation on PC/laptop, monitor or advanced documentation via MATRIX® and VUMAN®.

Other configurations, spare probes and accessories are available in further chapters.

VISIO 1.2 VISIO probes (Ø 3.7 mm to 6.0 mm)

1.2 Ø 3.7 mm to 6.0 mm

Tungsten

SYSTEM-KIT HVT-70-000143

HVT-70-000144

HVT-70-000145

HVT-70-000146

HVT-70-000147 HVT-70-000148

HVT-70-000149

HVT-70-000150

HVT-70-000151

alanan Manager and Anna M	OUTER Ø	LENGTH	ARTICULATION	FOV	DOV	PROBE MATERAL
	3.7 mm	1200 mm	2 x 140°	85°	0°	Tungsten
	3.7 mm	2200 mm	2 x 110°	85°	0°	Tungsten
VISIO P2 probes	3.7 mm	3000 mm	2 x 80°	85°	0°	Tungsten
VISIO FZ probes	4.0 mm	1200 mm	2 x 140°	85°	0°	Tungsten
	4.0 mm	2200 mm	2 x 110°	85°	0°	Tungsten
	4.0 mm	3000 mm	2 x 80°	85°	0°	Tungsten
	6.0 mm	2200 mm	4 x 140°	40°	0°	Tungsten
	6.0 mm	3300 mm	4 x 130°	40°	0°	Tungsten

6600 mm

4 x 110°

6.0 mm



Centering devices

FOR PROBE Ø		ITEM-NO.
3.7 mm / 4.0 mm	15.0 mm	TBC
3.7 mm / 4.0 mm	30.0 mm	TBC
3.7 mm / 4.0 mm	60.0 mm	TBC
3.7 mm / 4.0 mm	80.0 mm	TBC
6.0 mm	15.0 mm	HVT-90-000131
6.0 mm	30.0 mm	HVT-90-000132
6.0 mm	60.0 mm	HVT-90-000133
6.0 mm	80.0 mm	HVT-90-000134

40°

0°

Centering devices are very helpful accesories lifting the camera optic off the ground. As the probe is pushed inside an application, if fitting, a centering device will reduce the force needed to push the probe, avoid potentially moist and other remains building up in front of your optics and lightning. During inspections, the distance to the object and therefore image magnification will remain similar providing better inspection results.



Guide tubes

Guide tubes help entering flexible probes into different applications. The guide tubes can be semi flexible or pre-formed, guiding the probe. To protect the probe from heavy wear and tear, guide tubes are used simultaneously in specific situations.

OUTER Ø	FOR PROBES WITH Ø	LENGTH	CONSTRUCTION	FOR PRODUCTS	ITEM-NO.
8 mm	4.0 mm	200 mm 400 mm 600 mm 800 mm	Semi Rigid	VISIO probes VUCAM® Fiberscopes	HVT-90-000157 HVT-90-000158 HVT-90-000159 HVT-90-000160
12 mm	6 mm	200 mm 400 mm 600 mm 800 mm	Semi Rigid	VISIO probes VUCAM® Fiberscopes	HVT-90-000-161 HVT-90-000-162 HVT-90-000-163 HVT-90-000-164
15 mm	8.4 mm	200 mm 400 mm 600 mm 800 mm	Semi Rigid	VUMAN® Fiberscopes	HVT-90-000165 HVT-90-000166 HVT-90-000167 HVT-90-000168
6 mm	4 mm	200 mm 400 mm 600 mm 800 mm	Rigid	VISIO probes VUCAM® Fiberscopes	HVT-90-000169 HVT-90-000170 HVT-90-000171 HVT-90-000172
8 mm	6 mm	200 mm 400 mm 600 mm 800 mm	Rigid	VISIO probes VUCAM® Fiberscopes	HVT-90-000173 HVT-90-000174 HVT-90-000175 HVT-90-000176
10 mm	8.4 mm	200 mm 400 mm 600 mm 800 mm	Rigid	VISIO probes VUCAM® Fiberscopes	HVT-90-000152 HVT-90-000153 HVT-90-000154 HVT-90-000155



1.3 Accessories

Optional accessory

- VISIO documentation system
- VISIO BOX
- VISIO BOX transport case
- VISIO BOX to MATRIX cable
- 90° side view, 120° FOV optical adapter for 6.0 mm VISIO probe
- 90° side view, 45° FOV optical adapter for 6.0 mm VISIO probe
- 0°, 120° FOV optical adapter for 6.0 mm
 VISIO probe
- Video monitor/laptop solutions

VISIO DOCUMENTATION SYSTEM



Desktop solution for the support of VISIO probes. Image presentation via LCD display. Illumination control of VISIO probes. Digital image and video recording on SD card. White balance. Video input/ output. Battery operation time: 2 h. Power supply included.

VISIO BOX P2



Desktop solution for the support of VISIO probes. Illumination control of VISIO probes. Video out (S-Video, BNC), white balance. Power supply included.

VISIO BOX TRANSPORT CASE



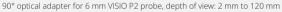
All probes and accessories fit perfectly into the custom-fit interior of the light weight but robust transport case.

VISIO BOX TO MATRIX CABLE P



Power via MATRIX® and VUMAN® utilizing the MATRIX® power supply or battery pack. One single connection point for power and signals.

SIDE VIEW OPTICAL ADAPTER DOV 90°, FOV 120° (WIDE ANGLE, CLOSE FOCUS)





OPTICAL ADAPTER DOV 0°, FOV 120° (WIDE ANGLE, CLOSE FOCUS)

0° optical adapter for 6 mm VISIO P2 probe, depth of view: 3 mm to 120 mm

BOX-70-000120



90° optical adapter for 6 mm VISIO P2 probe, depth of view: 12 mm to $\,\,$ $\,$ ∞

STORAGE BOX FOR OPTICAL ADAPTER



All your optical adapters are protected inside a custom-fit interior and a solid waterproof box.

VIDEO MONITOR/LAPTOP SOLUTIONS



Please contact viZaar for current models.



NOW WITH LIFETIME WARRANTY ON CARBON FIBRE PARTS AND LED UNITS!



The VUCAM® XO/XO+ is a professional and portable, battery operated industrial videoscope system. It is the best choice for remote applications with the demand for high robustness and portability. The light weight design of the VUCAM® XO/XO+ utilizes a carbon fiber construction, operating over two hours with in-field replacable batteries. The modern touch screen and GUI operation in combination with best-in-class image quality eases the inspection work and documentation. A system offering best value for your money. At the point of purchase and the cost of ownership.





VUCAM[®] XO

Including:

- Integrated high power LED light source
- Transport case
- 16 GB SD card
- Operating instructions
- 1x set of rechargeable batteries
- Power supply

OUTER Ø LENGTH ARTICULATION DOV FOV DEPTH OF VIEW SYSTEM KIT 6.0 mm 2200 mm 4 x 130° 45° 0° 15 mm to ∞ VXX-10-000157 6.0 mm 3300 mm 4 x 120° 45° 0° 15 mm to ∞ VXX-10-000158 4 x 100° VXX-10-000159 6.0 mm 6600 mm 45° 0° 15 mm to ∞

The VUCAM[®] XO standard edition gives you everything you need to perform visual inspections for your applcation. Record images and videos and save them on a SD card, use recording flashback and adjust brightness and contrast. The new features are an enhanced zoom-function and an all new full screen mode. Furthermore, you can rotate and mirror the image.

OUTER Ø	LENGTH	ARTICULATION	FOV	DOV	DEPTH OF VIEW	SYSTEM KIT
6.0 mm	2200 mm	4 x 130°	45°	0°	15 mm to ∞	VXX-10-000185
6.0 mm	3300 mm	4 x 120°	45°	0°	15 mm to ∞	VXX-10-000186
6.0 mm	6600 mm	4 × 100°	45°	0°	15 mm to ∞	VXX-10-000187

Including:

Integrated high power LED light source

VUCAM[®] XO+

- Transport case
- 16 GB SD card
- Operating instructions
- 1x set of rechargeable batteries
- Power supply

VULINK cable (TV-OUT, Audio

- IN/OUT, power cable)
- VULAN cable for network connection
- Headphone with integrated microphone
- Software-package with configuration software on USB-stick

Enhanced features offers the VUCAM XO+. An integrated video-out and audio-in/out connectivity ensure even better workflow. The most exciting highlight is the new video streaming function, allowing real time broadcast.



2.2 Ø 6 mm

Optional accessory

■ VUCAM[®] XO/XO+ accessory kit PRO

VUCAM® XO ACCI	ESSORY KIT PRO	BEM-30-000194
	Optical adapter DOV 90°, FOV 120° for VUCAM probes 6 mm (wide angle, close focus), depth of view: 2 mm to 120 mm	BOX-70-000118
	Optical adapter DOV 0°, FOV 120° for VUCAM probes 6 mm (wide angle, close focus), depth of view: 3 mm to 120 mm	BOX-70-000119
	VUCAM [®] external intelligent battery charger	BEM-30-000220
F	Shoulder strap for VUCAM [®]	FXX-90-000222
1 3200man	Spare battery VUCAM [®] Attention: Always order 2 pcs and change them together	EXX-91-000114
í ≝≧32 ⊲	SD card 32GB	DXX-60-000262
	Storage box for VUCAM® optical adapters	BMX-50-000364
	VUCAM [®] touch display protective foil	MXX-70-000392

Be prepared and get most out of your VUCAM[®] set. Complete your system. Save money and benefit from the offer of this extensive set full of useful accessories.

For detailed information about the accessories, please refer to the following chapter.



Optional accessory

VUCAM[®] XO/XO+ accessory kit PREMIUM

	ESSORY KIT PREMIUM	BEM-30-000362
	Optical adapter DOV 90°, FOV 120°, for VUCAM probes 6 mm (wide angle, close focus), depth of view: 2 mm to 120 mm	BOX-70-000118
	Optical adapter DOV 0°, FOV 120°, for VUCAM probes 6 mm (wide angle, close focus), depth of view: 3 mm to 120 mm	BOX-70-000119
	Optical adapter DOV 90°, FOV 45°, for VUCAM probes 6 mm (far focus), depth of view: 12 mm to ∞	BOX-70-000120
	VUCAM® external intelligent battery charger	BEM-30-000220
F	Shoulder strap for VUCAM®	FXX-90-000222
1 3200mAA	Spare battery VUCAM [®] Attention: Always order 2 pcs and change them together	EXX-91-000114
[†] ≝232;08	SD card 32GB (2 pcs)	DXX-60-000262
	Storage box for VUCAM [®] optical adapters	BMX-50-000364
	VUCAM® touch display protective foil (2 pcs)	MXX-70-000392

Be prepared and get most out of your VUCAM[®] set. Complete your system. Save money and benefit from the offer of this extensive set full of useful accessories.

For detailed information about the accessories please refer to the following chapter.





Side view optical adapter (close focus)



Optical adapter (wide angle)



Side view optical adapter (far focus)



Centering devices



Guide tubes



Battery charger



Spare battery

SIDE VIEW OPTICAL ADAPTER DOV 90°, FOV 120° 6 .1 MM (WIDE ANGLE, CLOSE

This side view optical adapter is an excellent help in narrow space applications, where probe articulation is not possible. It changes the direction of view of your system 90° to the side, widens the field of view to over 120° and shortens the minimum focus to very close (depth of view: 2 mm to 120 mm). The two step thread connection prevents any risk of losing the adapter inside your application. The overall design is optimized to maintain the total ridgid camera head section at the smallest, thus still passing, tight bend radii.

OPTICAL ADAPTER DOV 0°, FOV 120° 6 MM (WIDE ANGLE, CLOSE FOCUS)

BOX-70-000119

BOX-70-000118

This optical adapter is changing the systems optical parameter to more than 120° wide angle, setting the focus distance close (depth of view: 3 mm to 120 mm). This optical adatper will provide very good results in narrow spaces such as small tubes and orbital weld inspections. The two step thread connection prevents any risk of losing the adapter inside your application. The overall design is optimized to maintain the total ridgid camera head section at the smallest, thus still passing, tight bend radii.

SIDE VIEW OPTICAL ADAPTER DOV 90°, FOV 45° 6 MM (FAR FOCUS)

BOX-70-000120

This side view optical adapter is changing the systems optical parameter to 90° side view, while keeping the known standard optical parameters. Applications in far distance from the camera optic, where articulation is not delivering the desired results, are perfectly solved with this accessory (depth of view: 12 mm to ••). The two step thread connection prevents any risk of losing the adapter inside your application. The overall design is optimized to maintain the total ridgid camera head section at the smallest, thus still passing, tight bend radii.

FOR PROBE Ø	ø	ITEM-NO.
6.0 mm	15.0 mm	HVT-90-000131
6.0 mm	30.0 mm	HVT-90-000132
6.0 mm	60.0 mm	HVT-90-000133
6.0 mm	80.0 mm	HVT-90-000134

OUTER Ø	FOR PROBES WITH Ø	LENGTH	CONSTRUCTION	FOR PRODUCTS	ITEM-NO.
8.0 mm	6.0 mm	500 mm	Rigid	VUCAM® VUMAN® VISIO probes Fiberscopes	HVT-90-000137
12.0 mm	6.0 mm	500 mm	Semi-rigid	VUCAM® VUMAN® VISIO probes Fiberscopes	HVT-90-000141

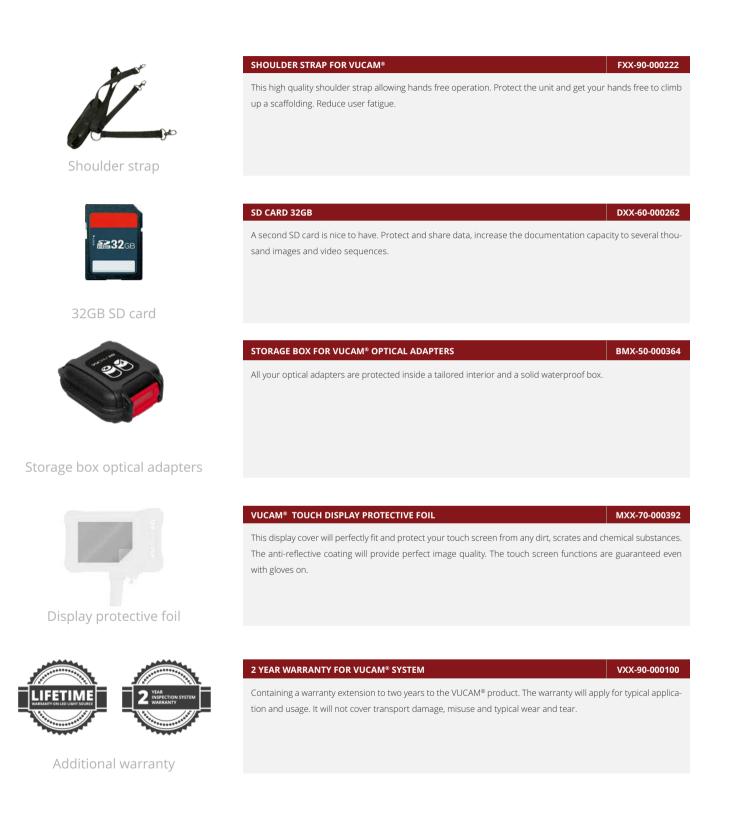
VUCAM[®] EXTERNAL INTELLIGENT BATTERY CHARGER

BEM-30-000220

Maximum flexibility, optimal battery management & lifetime. This intelligent, external and small charging unit is delivered with an international power supply & a car charger. Charge a second set of batteries while using the system. Connected to any mains or your car, it takes max. 2h to fully recharge your battery set. The charger synchronizes and maximizes the individual battery capacity, thus maximizing the overal total battery operation time.

SPARE BATTERY VUCAN	EXX-91-000114	
Туре	Rechargeable LiFePo	
Power	3,2V DC / 3200 mAh	
Function	Integrated deep discharge Over charge protection Fast charge	Air transportable
Attention	Please always order 2 pcs and change them together.	







3 VUCAM® AM/AM+ Portable industrial videoscope

NOW WITH LIFETIME WARRANTY ON CARBON FIBRE PARTS AND LED UNITS!



The VUCAM[®] AM is the best choice for Remote Visual Inspections (RVI) in the automotive industry. The portable videoscope system offers unique hardware features, matching the requirements and desires of industrial applications and users. The light weight design of the VUCAM[®] AM design is utilizing a carbon fiber construction, operating over 2 hours with in-field replacable batteries. The modern touch screen and GUI operation in combination with best-in-class image quality eases the inspection work and documentation. A system offering best value for your money. At the point of purchase and the cost of ownership.

VUCANT AM





VUCAM[®] AM system kits

Including:

- Integrated high power LED light source
- Transport case
- 16 GB SD card
- Operating instructions
- 1x set of rechargeable batteries
- Power supply

OUTER Ø LENGTH ARTICULATION DOV DEPTH OF VIEW FOV SYSTEM KIT 4.0 mm 1100 mm 4 x 160° 40° ٥° 15 mm to ∞ VXX-10-001193 4.0 mm 2200 mm 4 x 160° 40° 0° 15 mm to ∞ VXX-10-001194 4.0 mm VXX-10-001195 3300 mm 4 x 160° 40° 0° 15 mm to ∞

The VUCAM® AM was designed for Remote Visual Inspeactions in the automotive industry. The standard edition gives you everything you need to perform visual inspections for your application. Record images and videos and save them on a SD card, use recording flashback buffer and adjust brightness and contrast. The new features consist of an enhanced zoom-function and an all new full screen mode. Furthermore, you can rotate and mirror the image.

VUCAM® AM+	
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OUTER Ø	LENGTH	ARTICULATION	FOV	DOV	DEPTH OF VIEW	SYSTEM KIT
4.0 mm	1100 mm	4 x 160°	40°	0°	15 mm to ∞	VXX-10-001203
4.0 mm	2200 mm	4 x 160°	40°	0°	15 mm to ∞	VXX-10-001204
4.0 mm	3300 mm	4 x 160°	40°	0°	15 mm to ∞	VXX-10-001205

Enhanced features offers the VUCAM AM+. An integrated video-out and audio-in/out connectivity en-

sure even better workflow. The most exciting highlight is the new video streaming function, allowing

Including:

- Integrated high power LED light source
- Transport case
- 16 GB SD card
- Operating instructions
- 1x set of rechargeable batteries
- Power supply
- VULINK cable (TV-OUT, Audio
- IN/OUT, power cable)
- VULAN cable for network connection
- Headphone with integrated microphone
- Software-package with configuration software on USB-stick

L +49 7432 98375-0

real time broadcasts.



BEM-30-000220

FXX-90-000222



Battery charger



Shoulder strap



Spare battery



32GB SD card



Display protective foil



Additional warranty

VUCAM[®] EXTERNAL INTELLIGENT BATTERY CHARGER

Maximum flexibility, optimal battery management & lifetime. This intelligent, external and small charging unit is delivered with an international power supply & a car charger. Charge a second set of batteries while using the system. Connected to any mains or your car, it takes max. 2h to fully recharge. The charger synchronizes and maximizes the individual battery capacity, thus maximizing the overal total battery operation time.

SHOULDER STRAP FOR VUCAM®

This high quality shoulder strap allows hands free operation. Protect the unit and get your hands free to climb up a scaffolding. Reduce user fatigue.

SPARE BATTERY VUCAN	EXX-91-000114	
Туре	Rechargeable LiFePo	
Power	3,2V DC / 3200 mAh	
Function	Integrated deep discharge Over charge protection Fast charge	Air transportable
Attention	Please always order 2 pcs and change them together.	

SD CARD 32GB

A second SD card is nice to have. Protect and share data, increase the documentation capacity to several thousand images and video sequences.

VUCAM[®] TOUCH DISPLAY PROTECTIVE FOIL

MXX-70-000392

DXX-60-000262

This display cover will perfectly fit and protect your touch screen from any dirt, scratches and chemical substances. The antireflective coating will provide perfect image quality. The touch screen functions are guaranteed even with gloves on.

2 YEAR WARRANTY FOR VUCAM® SYSTEM

VXX-90-000100

Containing a warranty extension to two years to the VUCAM® product. The warranty will apply for typical application and usage. It will not cover transport damage, misuse and typical wear and tear.





The VUCAM® XF/XF+ is the best choice for Remote Visual Inspections (RVI) in the aviation industry. The portable videoscope system offers unique hardware features, matching the requirements and desires of industrial applications and users. The light weight design of the VUCAM® AM design is utilizing a carbon fiber construction, operating over two hours with in-field replacable batteries. The modern touch screen and GUI operation in combination with best-in-class image quality eases the inspection work and documentation. A system offering best value for your money. At the point of purchase and the cost of ownership.





Including:

- Integrated high power LED light source
- Transport case
- 16 GB SD card
- Operating instructions
- 1x set of rechargeable batteries
- Power supply

OUTER Ø	LENGTH	ARTICULATION	FOV	DOV	DEPTH OF VIEW	SYSTEM KIT	
4.0 mm	1100 mm	4 x 160°	85°	0°	4 mm to ∞	VXX-10-001206	
4.0 mm	2200 mm	4 × 160°	85°	0°	4 mm to ∞	VXX-10-001207	
4.0 mm	3300 mm	4 x 160°	85°	0°	4 mm to ∞	VXX-10-001208	

The VUCAM[®] XF is the best choice for Remote Visual Inspections (RVI) in the aviation industry. Record images and videos and save them on a SD card, use recording flashback and adjust brightness and contrast. The new features are an enhanced zoom-function and an all new full screen mode. Furthermore, you can rotate and mirror the image.

VUCAM [®] XF+	
------------------------	--

Including:	

- Integrated high power LED light source
- Transport case
- 16 GB SD card
- Operating instructions
- 1x set of rechargeable batteries
- Power supply
- VULINK cable (TV-Out, Audio In/Out, power cable)
- VULAN cable for network connection
- Headphone with integrated microphone

Software-package with configuration software on USB stick

OUTER Ø	LENGTH	ARTICULATION	FOV	DOV	DEPTH OF VIEW	SYSTEM KIT
4.0 mm	1100 mm	4 x 160°	40°	0°	4 mm to ∞	VXX-10-001209
4.0 mm	2200 mm	4 x 160°	40°	0°	4 mm to ∞	VXX-10-001210
4.0 mm	3300 mm	4 x 160°	40°	0°	4 mm to ∞	VXX-10-001211

Enhanced features offers the VUCAM XF+. An integrated video-out and audio-in/out connectivity ensure even better workflow. The most exciting highlight is the new video streaming function, allowing real time broadcasts.



4.2 Ø 4 mm

Optional accessory

VUCAM[®] XF/XF+ accessory kit PREMIUM

VUCAM® XF ACCE	VUCAM® XF ACCESSORY KIT PREMIUM BEM-30-000362							
	VUCAM probe optical adapter DOV 90°, FOV 85°, for VUCAM probes 4mm, depth of view 5 mm to 80 mm.	BOX-70-000124						
	VUCAM [®] external intelligent battery charger	BEM-30-000220						
K	Shoulder strap for VUCAM [®]	FXX-90-000222						
31 3200mas	Spare battery VUCAM [®] Attention: Always order 2 pcs and change them together.	EXX-91-000114						
≝£32 ∞	SD card 32GB (2 pcs)	DXX-60-000262						
	Storage box for VUCAM® optical adapters	BMX-50-000364						
	VUCAM [®] touch display protective foil (2 pcs)	MXX-70-000392						

Be prepared and get most out of your VUCAM® set. Complete your system. Save money and benefit from the offer of this extensive set full of useful accessories.



BEM-30-000220

FXX-90-000222



Battery charger



Shoulder strap



Spare battery



32GB SD card



Display protective foil



Additional warranty

VUCAM[®] EXTERNAL INTELLIGENT BATTERY CHARGER

Maximum flexibility, optimal battery management & lifetime. This intelligent, external and small charging unit is delivered with an international power supply & a car charger. Charge a second set of batteries while using the system. Connected to any mains or your car, it takes max. 2h to fully recharge your battery set. The charger synchronizes and maximizes the individual battery capacity, thus maximizing the overal total battery operation time.

SHOULDER STRAP FOR VUCAM®

This high quality shoulder strap allowing hands free operation. Protect the unit and get your hands free to climb up a scaffolding. Reduce user fatigue.

SPARE BATTERY VUCAN	EXX-91-000114	
Туре	Rechargeable LiFePo	
Power	3,2V DC / 3200 mAh	
Function	Integrated deep discharge Over charge protection Fast charge	Air transportable
Attention	Please always order 2 pcs and change them together.	

SD CARD 32GB

A second SD card is nice to have. Protect and share data, increase the documentation capacity to several thousand images and video sequences.

VUCAM[®] TOUCH DISPLAY PROTECTIVE FOIL

MXX-70-000392

DXX-60-000262

This display cover will perfectly fit and protect your touch screen from any dirt, scratches and chemical substances. The antireflective coating will provide perfect image quality. The touch screen functions are guaranteed even with gloves on.

2 YEAR WARRANTY FOR VUCAM® SYSTEM

VXX-90-000100

Containing a warranty extension to two years to the VUCAM[®] product. The warranty will apply for typical application and usage. It will not cover transport damage, misuse and typical wear and tear.



High end, interchangeable long range video endoscope system





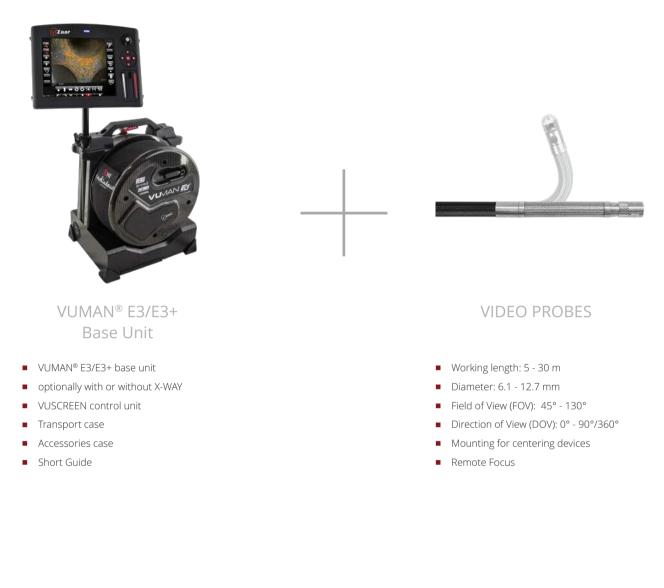
The VUMAN® industrial videoscope system is the choice for professionals. Image quality is the most prominent feature for visual inspection systems. VUMAN® offers unique patented features such as the worlds only Remote Focus optical system, providing instantly focused images in your application. The interchangeable video probes are connected to the patended reel system. Pulling just as much probe as needed from the reel, you're avoiding risks like trip hazard or probe damage. The uniqe pneumatic camera articulation operates smoothly without the typical performance drop of long range probes, even with most of the probe stored on the reel. System operation and high quality images presentation are managed by the high quality touch screen. All video probes are exchangeable. All hard- and software functions can be retrofitted. A very compact system offering long probe lengths with inspection quality at no compromise.



SOURCE



5.1 Individual customized inspection system



Customize your own inspection system

Combine the inspection system VUMAN[®] with the probes of your choice. This gives you all the features and benefits needed for multiple visual inspection and documentation challenges encountered.

Both of the two base units can be adjusted with an integreted micro air compressor. This ensures perfect X-WAY articulation up to a working length of 30 meters.

Easy to use graphic interface with an outstanding image presentation. Excellent image analysis and documentation tools ease the daily workload.

Further configurations, spare probes and accessories are available in the following chapters.



5.1 Individual customized inspection system





Choose the right system for your application

VUMAN® is available in two base units. They differ in matters of memory, size and software features. Each of them can be equipped with a compressor for full X-Way articulation. The standard video output is HDMI. Analogue TV-Out is an additional option for the VUMAN E3+.



5.2 VUMAN[®] E3 / E3+ base units



	1.22		122	
BASE UNIT	VUMAN [®] E3	VUMAN [®] E3 X-WAY	VUMAN [®] E3+	VUMAN [®] E3+ (ANALOG OUT)
ITEM NO.	VXX-10-001196	VXX-10-001197	VXX-10-001198	VXX-10-001200
X-WAY articulation	-	~	-	-
X-WAY drive	-	Integrated compressor, maintenance free.	-	-
High power dual LED light source	✓	✓	✓	~
Probe lengh	max. 20m	max. 20m	max. 20m	max. 20m
Color temperature	6.500 K	6.500 K	6.500 K	6.500 K
Memory	10GB SSD	10GB SSD	80GB SSD	80GB SSD
Video input	-	-	PAL / NTSC Composite, S-Video	PAL / NTSC Composite, S-Video
Video output	HDMI	HDMI	HDMI,	HDMI, Analog Out (Composite, S-Video)
Connectors	USB 3.0 12V(DC) / 750mA Aux-Out Optional external compressed air Rechargeable battery	USB 3.0 12V(DC) / 750mA Aux-Out Optional external compressed air Rechargeable battery	USB 3.0 12V(DC) / 750mA Aux-Out Optional external compressed air Rechargeable battery	USB 3.0 12V(DC) / 750mA Aux-Out Optional external compressed air Rechargeable battery
Dimensions	(W) 335 x (H) 410 x (D) 275 mm	(W) 335 x (H) 410 x (D) 275 mm	(W) 335 x (H) 410 x (D) 275 mm	(W) 335 x (H) 410 x (D) 275 mm
Weight in kg / lbs	8.5 / 18.7	10/22	8.5 / 18.7	8.5 / 18.7
Construction	Aluminum–Carbon fiber with elastomer bumpers			
AC input	100 - 240V(AC) 50Hz - 60Hz max. 240 Watt			
Environmental specifications	Operation: -15°C to +48°C Storage: -25°C to +65°C Relative humidity: max. 95%, non condensing	Operation: -15°C to +48°C Storage: -25°C to +65°C Relative humidity: max. 95%, non condensing	Operation: -15°C to +48°C Storage: -25°C to +65°C Relative humidity: max. 95%, non condensing	Operation: -15°C to +48°C Storage: -25°C to +65°C Relative humidity: max. 95%, non condensing
LCD TOUCH SCREEN CONTROL PANEL	~	~	~	~
Display size	10.4"	10.4"	10.4"	10.4"
Resolution	1024 x 768 px			
Contrast	700:1	700:1	700:1	700:1
Brightness	700 cd/m ²	700 cd/m ²	700 cd/m ²	700 cd/m ²
Backlight	LED, transreflective		LED, transreflective	LED. transreflective
Colors	LED, II ANSI ENECLIVE	LED, transreflective		
	True Color	True Color	True Color	True Color
Operation				
Operation Mounting on base unit / Shoulder strap	True Color Touch screen Joystick	True Color Touch screen Joystick	True Color Touch screen Joystick	True Color Touch screen Joystick
	True Color Touch screen Joystick Direct access buttons			
Mounting on base unit / Shoulder strap	True Color Touch screen Joystick Direct access buttons			
Mounting on base unit / Shoulder strap Dimensions LCD	True Color Touch screen Joystick Direct access buttons (W) 320 x (H) 30 x (D) 230 mm	True Color Touch screen Joystick Direct access buttons (W) 320 × (H) 30 × (D) 230 mm	True Color Touch screen Joystick Direct access buttons (W) 320 x (H) 30 x (D) 230 mm	True Color Touch screen Joystick Direct access buttons (W) 320 × (H) 30 × (D) 230 mm



5 VUMAN® E3 / E3+

5.2 VUMAN[®] E3 / E3+ base units







BASE UNIT	VUMAN [®] E3+ X-WAY	VUMAN [®] E3+ X-WAY (ANALOG OUT)	VUMAN [®] E3+ X-WAY (ANALOG OUT, 30 METERS)	
ITEM NO.	VXX-10-001199	VXX-10-001201	VXX-10-001202	
X-WAY articulation	✓	~	~	
X-WAY drive	Integrated compressor, maintenance free.	Integrated compressor, maintenance free.	Integrated compressor, maintenance free.	
High power dual LED light source	✓	~	~	
probe lengh	max. 20m	max. 20m	max. 30m	
Color temperature	6.500 K	6.500 K	6.500 K	
Memory	80GB SSD	80GB SSD	80GB SSD	
Video input	PAL / NTSC Composite, S-Video	PAL / NTSC Composite, S-Video	PAL / NTSC Composite, S-Video	
Video output	HDMI	HDMI, Analog Out (Composite, S-Video)	HDMI, Analog Out (Composite, S-Video)	
Connectors	USB 3.0 12V(DC) / 750mA Aux-Out Optional external compressed air Rechargeable battery	USB 3.0 12V(DC) / 750mA Aux-Out Optional external compressed air Rechargeable battery	USB 3.0 12V(DC) / 750mA Aux-Out Optional external compressed ain Rechargeable battery	
Dimensions	(W) 335 x (H) 410 x (D) 275 mm	(W) 335 x (H) 410 x (D) 275 mm	(W) 335 x (H) 410 x (D) 275 mm	
Weight in kg / lbs	10 / 22	10/22	10/22	
Construction	Aluminum–Carbon fiber with elastomer bumpers	Aluminum–Carbon fiber with elastomer bumpers	Aluminum–Carbon fiber with elastomer bumpers	
AC input	100 - 240V(AC) 50Hz - 60Hz max. 240 Watt	100 - 240V(AC) 50Hz - 60Hz max. 240 Watt	100 - 240V(AC) 50Hz - 60Hz max. 240 Watt	
Environmental specifications	Operation: -15°C to +48°C Storage: -25°C to +65°C Relative humidity: max. 95%, non condensing	Operation: -15°C to +48°C Storage: -25°C to +65°C Relative humidity: max. 95%, non condensing	Operation: -15°C to +48°C Storage: -25°C to +65°C Relative humidity: max. 95%, non condensing	
LCD TOUCH SCREEN CONTROL PANEL	~	✓	~	
Display size	10.4"	10.4"	10.4"	
Resolution	1024 x 768 px	1024 x 768 px	1024 x 768 px	
Contrast	700:1	700:1	700:1	
Brightness	700 cd/m ²	700 cd/m ²	700 cd/m ²	
Backlight				
Duckilgilt	LED, transreflective	LED, transreflective	LED, transreflective	
Colors	LED, transreflective True Color	LED, transreflective True Color	LED, transreflective True Color	
-			,	
Colors	True Color Touch screen Joystick	True Color Touch screen Joystick	True Color Touch screen Joystick	
Colors Operation	True Color Touch screen Joystick Direct access buttons	True Color Touch screen Joystick	True Color Touch screen Joystick	
Colors Operation Mounting on base unit / Shoulder strap	True Color Touch screen Joystick Direct access buttons	True Color Touch screen Joystick Direct access buttons	True Color Touch screen Joystick Direct access buttons	
Colors Operation Mounting on base unit / Shoulder strap Dimensions LCD	True Color Touch screen Joystick Direct access buttons (W) 320 x (H) 30 x (D) 230 mm	True Color Touch screen Joystick Direct access buttons (W) 320 x (H) 30 x (D) 230 mm	True Color Touch screen Joystick Direct access buttons (W) 320 x (H) 30 x (D) 230 mm	

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5.3 VUMAN[®] E3 / E3+ software kits

	VUMAN [®] E3	VUMAN [®] E3+
	00	0 0
SOFTWARE KIT	STANDARD SOFTWARE KIT FOR VUMAN E3	ADVANCED SOFTWARE KIT FOR VUMAN E
SETUP		
Default user	*	*
Individual user 1-9	-	✓
Multi language user interface	✓	~
Memory	10 GB SSD	80 GB SSD
OPERATION MENU		
Dual LED illumination balance 8x (left/right)*		✓
Dual LED illumination boost*	A	· · ·
White balance	· · ·	· · · · · · · · · · · · · · · · · · ·
Digital image processing (Presets)*		*
		· · · · · · · · · · · · · · · · · · ·
Long time exposure Flip / Mirror / Zoom	-	
	-	4
Rotate (clockwise / counter-clockwise)	-	✓
Individual reference chart / customer logo	-	✓
Full screen mode	-	√
Point marker	-	*
Probe articulation display*	*	✓
Articulation mode	Absolute	Absolute / relative
Video recording length	Max. 1 min. / video	Unlimited
Adjustable recording length	-	✓
Video quality	Medium	Low / Medium / High
Video format	AVI	AVI / MPG
Continuous image capture*		~
Image capture during video recording	~	✓
Image quality	Medium	Low / Medium / High
Image format	JPG	BMP / JPG
TEXT GENERATOR		
Status bars	3	4
Free text		✓ ·
Text color	Black / white	7 colors
Text background color	Grey / Transparent	9 colors
Date & time		✓
	*	
Individual reference chart / customer logo	-	✓
Displayed item positioning		√
Save / load user settings		✓
FILE MANAGER		
Copy files	*	*
Rename files	~	*
Delete files	✓	✓
Create folders	-	✓
Create subfolders	-	*
Copy folders / subfolders	-	√
Rename folders / subfolders		✓
Delete folders / subfolders	-	✓
MEDIA PLAYER		
Video playlist	*	✓
Image slide show	¥	*
	*	↓ ↓
-	*	
Play / pause		
Play / pause Forward / backward	*	~
Play / pause Forward / backward MEASUREMENT MENU		
Play / pause Forward / backward MEASUREMENT MENU Distances (between two points)*	✓	√
Play / pause Forward / backward MEASUREMENT MENU		

* Features only available for VUMAN[®] E3 base units and V3 probes

5 VUMAN[®] E3 / E3+

5.4 interchangeable video probes



interchangeable video probes



Dual high power LED light source (H) 795 x (V) 596, 470.000 px ✓ 1.5 bar / 14 psi

OUTER Ø	LENGTH	X-WAY*	FOV	DOV	REMOTE FOCUS	ITEM NO.
6.1 mm	5 m	~	45°	0°	~	BEM-30-000413
6.1 mm	8 m	~	45°	0°	~	BEM-30-000399
6.1 mm	8 m	-	45°	0°	~	BEM-30-000419
6.1 mm	12 m	~	45°	0°	~	BEM-30-000411
6.1 mm	15 m	~	45°	0°	~	BEM-30-000409
6.1 mm	15 m	-	45°	0°	~	BEM-30-000420
6.1 mm	20 m	~	45°	0°	~	BEM-30-000408
6.1 mm	30 m	~	45°	0°	~	BEM-30-000412

* X-WAY articulation up/down, left/right +/-90° Fastener for optical adapters

4.4 Ø 8.4 mm

OUTER Ø	LENGTH	X-WAY*	FOV	DOV	REMOTE FOCUS	WEIGHT	ITEM NO.
8.4 mm	5 m	~	70°	0 / 90°	~	920 g	BEM-30-000286
8.4 mm	8 m	~	70°	0 / 90°	~	990 g	BEM-30-000271
8.4 mm	8 m	-	70°	0 / 90°	~	870 g	BEM-30-000285
8.4 mm	12 m	~	70°	0 / 90°	~	1175 g	BEM-30-000283
8.4 mm	15 m	~	70°	0 / 90°	~	1360 g	BEM-30-000282
8.4 mm	15 m	-	70°	0 / 90°	~	1240 g	BEM-30-000281
8.4 mm	20 m	~	70°	0 / 90°	~	2330 g	BEM-30-000279
8.4 mm	30 m	~	70°	0 / 90°	~	3300 g	BEM-30-000277

* X-WAY articulation up/down, left/right +/-90° to +/-120° Fastener for optical side view adapter



Dual high power LED light source (H) 752 x (V) 582, 440.000 px

1.5 bar / 14 psi

~

Hard wearing stainless steel braid on polyurethan probe. Fastener for optical centering tools.



interchangeable

video probes



5.4 interchangeable video probes

5.4 Ø 12.7 mm



Revolver 12.7 video probes



Dual high power LED light source (H) 752 x (V) 582, 440.000 px

360° 🗸

OUTER Ø	LENGTH	EXTENSION	FOV	DOV	REMOTE FOCUS	WEIGHT	ITEM NO.
12.7 mm	8 m	Up to 30 m*	60°	90° / 360°	-	1120 g	VXX-10-001143
12.7 mm	15 m	Up to 30 m*	60°	90° / 360°	-	1520 g	VXX-10-001142

This 360° endless revolving probe is most productive and cost efficient at pipe wall and weld inspections. User controlled inspection speed and position of the side view revolving mirror deliver fast and perfect 100% inspection results.

Fastener for optical side view adapter.

* Custom solution



5.5 Accessories and Upgrades



wide angle adapter 6.1 mm



90° side view adapter 6.1 mm



90° side view adapter 6.1mm



90° side view prism 8.4 mm



90° side view adapter 12.7 mm



Centering device kit 8.4 mm



Centering device kit 8.4 mm

WIDE ANGLE ADAPTER 6.1 MM RF FOR VUMAN®	BOX-70-000129
Optical adapter, wide angle: DOV 0°, FOV 120°, DOF 4mm - ∞ for VUMAN 6.1mm probes	

90° SIDE VIEW ADAPTER 6.1 MM RF FOR VUMAN®

Optical adapter, side view: DOV 90°, FOV 45° for VUMAN 6.1mm probes

BOX-70-000128

BOX-70-000131

90° SIDE VIEW ADAPTER 6.1 MM RF FOR VUMAN®

Optical adapter, side view with wide angle: DOV 90°, FOV 120°, DOF 2mm - ∞ for VUMAN 6.1mm probes

90° SIDE VIEW PRISM 8.4 MM RF PROBE FOR VUMAN®

BMX-50-000129

BMX-50-000277

Provides 90° side viewing image, easy focusing to achieving over 100 viewing/illumination positions. Optimized for usage with option centering device kit. Focus range from 0 mm to ∞ .

90° SIDE VIEW ADAPTER FOR REVOLVER 12.7

Only for operation with VUMAN® Revolver 12.7

Provides 90° side viewing image at homogeneous illumination. Anti-reflex, metal coated glass surface minimizes image disturbance.

VUMAN [®] CENTERING I	DEVICE TOOL KIT FOR 8.4 MM RF X-WAY PROBES	BMX-50-000197
Centering discs	5 weight optimized centering discs.	
Diameter	60 mm, 44 mm, 34 mm, 24 mm, 17 mm.	
Mounting	Insertion tube	
Function	These tools offer premium scope handling inside tubes and keep the cam bottom remains. The camera head can still be articulated. Positioned in ti continous focal distance to the tube wall resulting in repetetive high qua workflow. The disks are fixed with a split adapter behind the bending insertion tube. Incl. a split locking adapter and mounting wrench.	he center they ensure lity images and faster

VUMAN [®] CENTERING I NON ARTICULATION PI	BMX-50-000302	
Centering discs	5 weight optimized centering discs.	
Diameter	60 mm, 44 mm, 34 mm, 24 mm, 17 mm.	
Mounting	Camera head	
Function	These tools offer premium scope handling inside tubes and keep the can bottom remains. They too ensure continous focal distance to the tube wall high quality images and faster workflow. Incl. a locking adapter and mou	resulting in repetetive

5.5 Accessories and Upgrades



Centering device kit 6.1 mm



Centering device kit 6.1 mm



Centering device kit 12.7 mm



Glass fiber pushing aid 15 m



Glass fiber pushing aid 20 m

VUMAN [®] CENTERING D	EVICE KIT FOR 6.1 MM X-WAY PROBES	BMX-50-000493
Centering discs	5 weight optimized centering discs.	
Diameter	60 mm, 44 mm, 34 mm, 24 mm, 17 mm	
Mounting	Camera head	
Function	These tools offer premium scope handling inside tubes, keeps camera a bottom, keeps continous focal distance to the tube / tube wall. Works v and mounting groove on endoscope camera head to prevent tool lo Includes mounting adapter, adapter-can for usage without 90° sid mounting wrench.	with mounting adapter ost inside application.

VUMAN [®] CENTERING I	DEVICE KIT FOR 6.1 MM NON ARTICULATING PROBES	BMX-50-000503
Centering discs	2 weight optimized centering discs.	
Diameter	44 mm, 19 mm	
Mounting	Camera head	
Function	These tools offer premium scope handling inside tubes, keeps camera a bottom, keeps continous focal distance to the tube / tube wall. Works w and mounting groove on endoscope camera head to prevent tool lc Includes mounting adapter, adapter-can for usage without 90° sid mounting wrench.	with mounting adapter ost inside application.

VUMAN® CENTERING DEVICE KIT FOR REVOLVER 12.7 BMX-50				
Centering discs	5 weight optimized centering discs.			
Diameter	80 mm, 60 mm, 46 mm, 36 mm, 26 mm.			
Mounting	Camera head			
Function	This tools offer premium scope handling inside tubes, keeps camera away f bottom, keeps continous focal distance to the tube / tube wall.	rom tube or pipe		

GLASS FIBER PUSHING AID SET FOR 6.1 MM INSERTION TUBE, ONLY VUMAN® 15 M BMX-50-000504

To be mounted 10" / 25 cm before distal scope end

Small reel containing 15 meter / 4.5 mm PE-coated glass fibre push rod and one spherical adapter including clamps and clockwise / counterclockwise thread-connector. Unique tool to move longer insertion tubes of any 6mm scope into hard to reach positions. Change of clamps allows to use same set with different scope diameters. Includes mounting wrench.

GLASS FIBER PUSHING AID SET FOR 6.1 MM INSERTION TUBE, ONLY VUMAN[®] 20 M BMX-50-000505

To be mounted 10" / 25 cm before distal scope end

Small reel containing 20 meter / 4.5 mm PE-coated glass fibre push rod and one spherical adapter including clamps and clockwise / counterclockwise thread-connector. Unique tool to move longer insertion tubes of any 6mm scope into hard to reach positions. Change of clamps allows to use same set with different scope diameters. Includes mounting wrench.

5.5 Accessories and Upgrades



5.5 Accessories and Upgrades



Glass fiber pushing aid 30 m



Glass fiber pushing aid 15 m



Glass fiber pushing aid 20 m



Glass fiber pushing aid 30 m



Glass fiber pushing aid 15 m

GLASS FIBER PUSHING AID SET FOR 6.1 MM INSERTION TUBE, ONLY VUMAN[®] 30 M BMX-50-000506

To be mounted 10" / 25 cm before distal scope end

Small reel containing 30 meter / 4.5 mm PE-coated glass fibre push rod and one spherical adapter including clamps and clockwise / counterclockwise thread-connector. Unique tool to move longer insertion tubes of any 6mm scope into hard to reach positions. Change of clamps allows to use same set with different scope diameters. Includes mounting wrench.

GLASS FIBER PUSHING AID SET FOR 8.4 MM INSERTION TUBE, ONLY VUMAN® 15 M

BMX-50-000281

To be mounted 10" / 25 cm before distal scope end

Small reel containing 15 meter / 4.5 mm PE-coated glass fibre push rod and one spherical adapter including clamps and clockwise /counterclockwise thread-connector. Unique tool to move longer insertion tubes of any 8mm scope into hard to reach positions. Change of clamps allows to use same set with differnt scope diameters. Includes mounting wrench.

GLASS FIBER PUSHING AID SET FOR 8.4 MM INSERTION TUBE, ONLY VUMAN® 20 M

BMX-50-000349

To be mounted 10" / 25 cm before distal scope end

Small reel containing 20 meter / 4.5 mm PE-coated glass fibre push rod and one spherical adapter including clamps and clockwise /counterclockwise thread-connector. Unique tool to move longer insertion tubes of any 8mm scope into hard to reach positions. Change of clamps allows to use same set with different scope diameters. Includes mounting wrench.

GLASS FIBER PUSHING AID SET FOR 8.4 MM INSERTION TUBE, ONLY VUMAN® 30 M

BMX-50-000348

To be mounted 10" / 25 cm before distal scope end

Small reel containing 30 meter / 4.5 mm PE-coated glass fibre push rod and one spherical adapter including clamps and clockwise /counterclockwise thread-connector. Unique tool to move longer insertion tubes of any 8mm scope into hard to reach positions. Change of clamps allows to use same set with differnt scope diameters. Includes mounting wrench.

GLASS FIBER PUSHING AID SET FOR 10 MM INSERTION TUBE / VUMAN® / REVOLVER 12.7 BMX-50-000285

Only VUMAN®

To be mounted 10" / 25 cm before distal scope end

Small reel containing 15 meter / 4.5 mm PE-coated glass fibre push rod and one spherical adapter inlcuding clamps and clockwise /counterclockwise thread- connector. Unique tool to move longer insertion tubes of any 10 mm scope into hard to reach positions. Change of clamps allows to use same set with different scope diameters. Includes mounting wrench.



5.5 Accessories and Upgrades

5.5 Accessories and Upgrades



X-WAY articulation upgrade



Transport case



Transport case



Transport case



Camera head protection ring



Camera head protection ring

BASE UNIT X-WAY UPGRADE

Micro compressor included for usage of articulating RF video probes. Hardware upgrade (micro compressor and boards).

TRANSPORT CASE VUMAN[®] BASE UNIT FOR PROBE LENGTH UP TO 20 M

FXX-80-000119

VXX-10-001115

Light-weight, compact and splash water proof HPX® high performance transport, storage and operation case for VUMAN®/RA-Y/RA base unit and accessories. Product taylored interior for ideal protection during transport, storage and out-of-the-box operation. Integrated wheels and large pull-out handle. Press & Pull closing latches, reinforced hinges.

TRANSPORT CASE VUMAN® BASE UNIT FOR PROBE LENGTH UP TO 30 M

FXX-80-000136

We recommend this item for probe working lengths over 20 m

The outer size and physical dimensions of this case are the same as the ones of the standard case. The interior is designed to fit the extra long probe on the probe extension. Light-weight, compact and splash water proof HPX[®] high performance transport, storage and operation case for VUMAN[®] base unit and accessories. Product taylored interior for perfect protection during transport, storage and out-of-the-box operation. Integrated wheels and large pull-out handle. Press & Pull closing latches, reinforced hinges.

TRANSPORT CASE SPARE PROBE

BMX-50-000225

Light-weight, compact and splash water proof HPX® high performance transport case for spare probes. Product taylored interior for ideal scope protection during transport and storage. The non-slip material of the transport case spare probes enables transport and storage on the transport case VUMAN base unit (FXX-80-000119 and FXX-80-000136).

CAMERA HEAD PROTECTION FOR VUMAN[®]/TUBE 8.4 MM RF

BMX-50-000299

Spare head guard ring for 8.4mm VUMAN[®] probe head. Always to be used when no side view adapter is present. This ring is to protect the integrity of the fine thread provided at the camera head.

CAMERA HEAD PROTECTION FOR VUMAN®/TUBE 6.1 MM RF

MXX-10-001231

Spare head guard ring for 6.1mm VUMAN[®] probe head. Always to be used when no optic adapter is present. This ring is to protect the integrity of the fine thread provided at the camera head.



5.5 Accessories and Upgrades



Battery pack



VUSCREEN control unit



VUSCREEN Link cable



Display protective foil



Customization

VUMAN® E3/E3+ BATTERY PACK

BEM-30-000342

Maximum operation time: up to three hours. Battery charging with VUMAN® E3/E3+ base unit or external charging unit. Provides full mobility and retains capacity and performance even under the harshest conditions. Operating environment: -25°C to +45°C (-13°F to +113°F).

Safe NiMH battery technology. Delivery includes external charging system. Weight 2,5kg.

VUSCREEN CONTROL UNIT FOR VUMAN [®] / MATRIX		BEM-30-000257
Display size	10.4"	
Resolution	1024 x 768 px	
Contrast	700:1	
Brightness	700 cd/m ²	
Backlight	LED, transreflective	
Colors	True Color	
Operation	Touch screen Joystick Direct access buttons	
Dimensions	(W) 320 x (H) 30 x (D) 230 mm	
Weight	1.6 kg	
Construction	Carbon fiber design with all around elastometer bumper	

LENGTH	CONNECTION ANGLE (LCD CONTROL UNIT)	CONNECTION ANGLE (BASE UNIT)	ITEM NO.
2.5 m	60°	60°	EXX-70-000273
5.0 m	60°	60°	EXX-70-000297
8.0 m	60°	60°	EXX-70-000298
10.0 m	60°	60°	EXX-70-000306

Remote operation extension cable for the LCD control unit.

LCD DISPLAY PROTECTIVE FOIL

This display cover will perfectly fit and protect your touch screen from any dirt, scratches, chemical substances, corrosion, destruction or deterioration caused by sea water. It is easy to place and replace from the screen and highly transparent. The antireflective coating will provide perfect image quality. The touch screen functions are guaranteed even with gloves on.

CUSTOMER LOGO/REFERENCE CHARTS DISPLAY

EXX-99-000101

MXX-70-000274

Your VUMAN® can be used with your individual reference charts or company logo. When chosen, these can be end positioned as overlay anywhere in your active picture for reference or documentation. Reference pictures and logos need to be provided after the order date by the customer within the first two weeks after order. File format: EPS or high resolution JPEG format.



5 VUMAN® E3 / E3+

5.5 Accessories and Upgrades



CUSTOM TRANSPORT CASE LABEL

Make your case show your brand. When ordering FXX-80-000119 / FXX-80-000136, you can order it to come with the customer logo on it. The logo needs to be provided by the customer within the first two weeks after order. File format: EPS or high resolution JPEG format.

Customization



Product training

INHOUSE VUMAN® TRAINING IN ALBSTADT/WOLFENHAUSEN

SXX-20-000111

MXX-70-000404

Up to max. 6 persons in one session.

Inhouse training includes working with the VUMAN[®]. First start-up of the system, quick start, handling the X-WAY probe, correct file management, working with the text generator, copying files on a USB device, changing centering discs and safe storage of the system/spare probe.



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