



FOR MORE  
INFORMATION



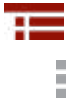
Item No.: DXX-80-000200 | Document-No.: KA001\_3-2

# CATALOGUE

REVISION 3.2

VIDEOSCOPES

VIDEOSCOPES ■ ACCESSORIES



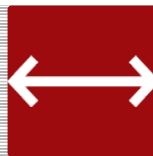
# CHOOSE THE RIGHT EQUIPMENT

This catalogue provides you with a wide range of videoscopes and corresponding 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 videoscopes. Image processing happens directly inside of the camera head, enabling high image quality and stability.



## GERMANY

viZaar industrial imaging AG  
Hechinger Straße 152  
72461 Albstadt / Germany  
+49 7432 98375-0  
+49 7432 98375-50



[www.vizaar.com](http://www.vizaar.com)



[info@vizaar.com](mailto:info@vizaar.com)

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## WORLDWIDE

Find your official viZaar trading and sales partner online:  
<https://vizaar.de/en/vizaar-worldwide/>

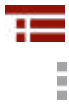




# CONTENT

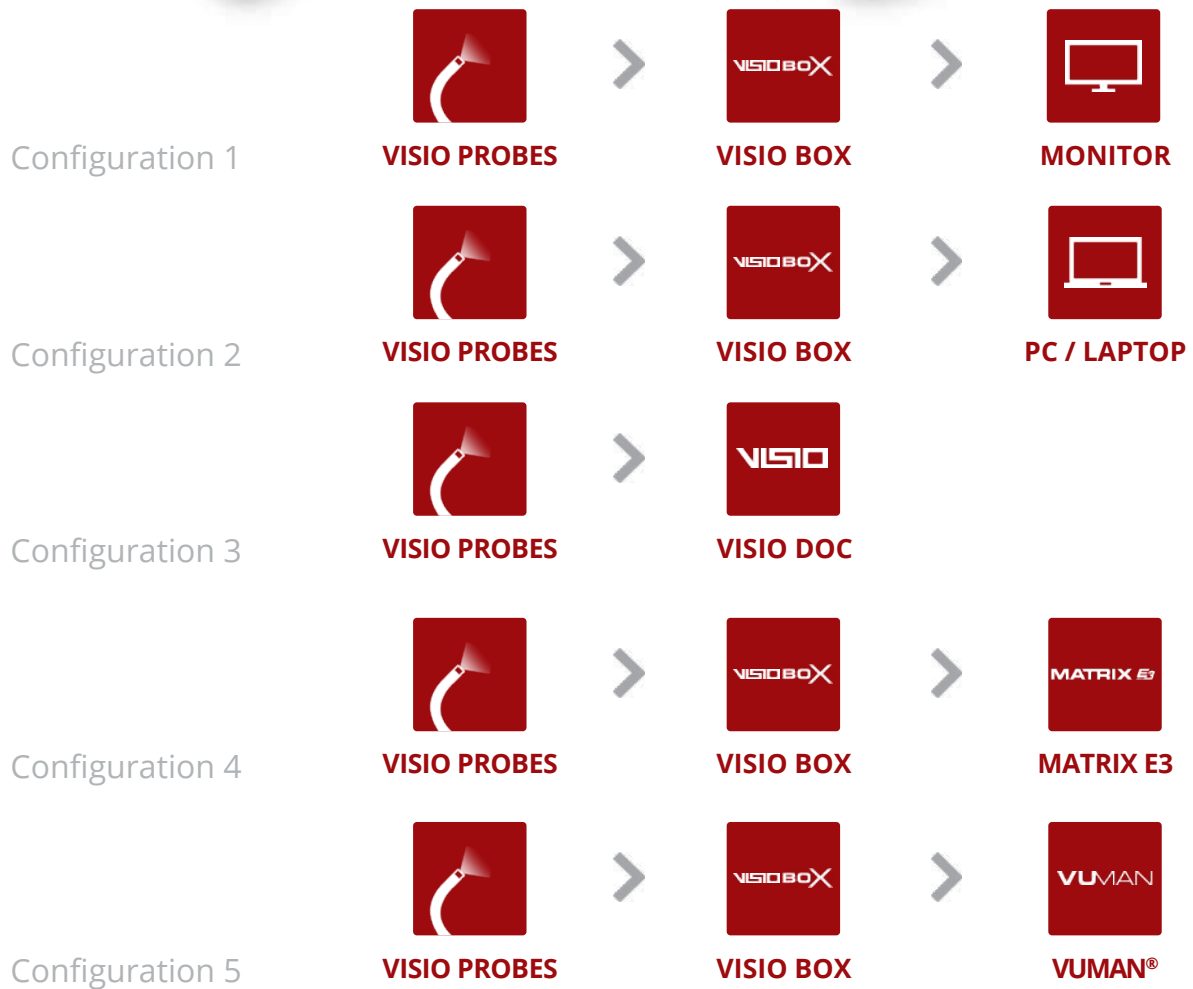
## Videoscopes

<b>1</b>	<b>DESKTOP SOLUTION</b>	<b>5</b>
1.1	VISIO	5
1.2	VISIO system kits	6
1.3	VISIO probes (Ø 3.7 mm to 6.0 mm)	7
1.4	Accessories	8
<b>2</b>	<b>PORTABLE VIDEOSKOPE</b>	<b>9</b>
2.1	VUCAM® XO/XO+	9
2.1.1	VUCAM® XO/XO+ system kits (Ø 6 mm)	10
2.1.2	VUCAM® XO/XO+ accessory kits	11
2.1.3	Accessories	12
2.2	VUCAM® XF/XF+	14
2.2.1	VUCAM® XF/XF+ system kits (Ø 6 mm)	15
2.2.2	VUCAM® XF/XF+ accessory kits	16
2.2.3	Accessories	17
<b>3</b>	<b>VIDEOSCOPE FOR LONG RANGE INSPECTIONS</b>	<b>18</b>
3.1	VUMAN® E3/E3+	18
3.2	VUMAN® E3/E3+ base unit + probes	19
3.3	VUMAN® E3/E3+ software features	20
3.4	VUMAN® E3/E3+ base units	21
3.5	Interchangeable video probes (Ø 6.1 mm / 8.4 mm / 12.7 mm)	23
3.6	Accessories and upgrades	24



# 1 DESKTOP SOLUTIONS

## 1.1 VISIO



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 test objects. 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 MATRIX® and VUMAN® system for advanced documentation.



# 1 DESKTOP SOLUTIONS

## 1.2 VISIO

### System kits



OUTER Ø	LENGTH	ARTICULATION	FOV	DOV	PROBE MATERIAL	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

### VISIO DOC 2 system kits

Including:

- VISIO DOC 2
- High power, longlife LED light source
- S-Video cable
- Composite cable
- Power supply
- VISIO P2 probe

### Benefit from the pre-selected system kits

Full operating system with image presentation, image and video recording on a SD card. Powered by rechargeable battery (operating time up to 3.5 h).



### VISIO BOX system kits

Including:

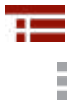
- VISIO BOX unit
- High power, longlife LED light source
- S-Video cable
- Composite cable
- Power supply
- VISIO P2 probe

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

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.



# 1 DESKTOP SOLUTIONS

## 1.2 VISIO probes

Ø 3.7 mm to 6.0 mm



VISIO P2 probes

OUTER Ø	LENGTH	ARTICULATION	FOV	DOV	PROBE MATERIAL	SYSTEM-KIT
3.7 mm	1200 mm	2 x 140°	85°	0°	Tungsten	HVT-70-000143
3.7 mm	2200 mm	2 x 110°	85°	0°	Tungsten	HVT-70-000144
3.7 mm	3000 mm	2 x 80°	85°	0°	Tungsten	HVT-70-000145
4.0 mm	1200 mm	2 x 140°	85°	0°	Tungsten	HVT-70-000146
4.0 mm	2200 mm	2 x 110°	85°	0°	Tungsten	HVT-70-000147
4.0 mm	3000 mm	2 x 80°	85°	0°	Tungsten	HVT-70-000148
6.0 mm	2200 mm	4 x 140°	40°	0°	Tungsten	HVT-70-000149
6.0 mm	3300 mm	4 x 130°	40°	0°	Tungsten	HVT-70-000150
6.0 mm	6600 mm	4 x 110°	40°	0°	Tungsten	HVT-70-000151



Centering devices

FOR PROBE Ø*	DISK 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

\*Upon request, other disks for other probe diameters are possible.

Centering devices are very helpful accessories lifting the camera optic off the ground. As the probe is pushed inside a test object, 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 test objects. 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 & VUCAM® probes	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 & VUCAM® probes	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® probes	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 & VUCAM® probes	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 & VUCAM® probes	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 & VUCAM® probes	HVT-90-000152 HVT-90-000153 HVT-90-000154 HVT-90-000155



# 1 DESKTOP SOLUTIONS

## 1.4 VISIO

## Accessories

### Optional accessory

- VISIO DOC 2
- 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 DOC 2 CONTROL UNIT

HVT-80-000100



Portable documentation solution for 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

HVT-90-000180



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

HVT-90-000100



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

#### VISIO BOX TO MATRIX CABLE P2

HVT-90-000181



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)

BOX-70-000118



Side-view optical adapter (DOV 90°) for Ø 6 mm VISIO-P2 probe, depth of field: 2 mm to 120 mm.

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

BOX-70-000119



Straight-view optical adapter (DOV 0°) for Ø 6 mm VISIO-P2 probe, depth of field: 3 mm to 120 mm

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

BOX-70-000120



Side-view optical adapter (DOV 90°) for Ø 6 mm VISIO-P2 probe, depth of field: 12 mm to ∞.

#### STORAGE BOX FOR OPTICAL ADAPTERS

BMX-50-000364



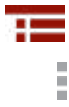
All your optical adapters are protected inside a custom-fit interior and a solid waterproof box.

#### VIDEO MONITOR/LAPTOP SOLUTIONS



Please contact viZaar for current models.





## 2 PORTABLE VIDEOSKOPE

2.1 VUCAM® XO/XO+



**BATTERY  
POWERED**



**PRE-TRIGGER  
RECORDING**



**ROBUST  
CONSTRUCTION**



**CARBON  
DESIGN**

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 replaceable 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.



## 2 PORTABLE VIDEOSKOPE

### 2.1.1 VUCAM® XO/XO+

System kits Ø 6 mm

#### VUCAM® XO

Including:

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

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-10-000157
6.0 mm	3300 mm	4 x 120°	45°	0°	15 mm to ∞	VXX-10-000158
6.0 mm	6600 mm	4 x 100°	45°	0°	15 mm to ∞	VXX-10-000159

The VUCAM® XO standard edition gives you everything you need to perform visual inspections for your application. Record images and videos and save them on an SD card, use pre-trigger recording and adjust brightness and contrast. You also benefit from the zoom-function and full screen mode. Furthermore, you can rotate and mirror the image vertically and/or horizontally.

#### VUCAM® XO+

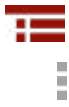
Including:

- 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
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 x 100°	45°	0°	15 mm to ∞	VXX-10-000187

The VUCAM XO+ model offers you several enhanced soft- and hardware features. Benefit from the integrated video-out and audio-in/out connectivity. Paired with the enhanced pre-trigger recording, you will achieve an even better workflow. Furthermore, push-to-FTP allows you to save your recordings directly on an FTP server. Realtime broadcast via LAN is also possible.





## 2 PORTABLE VIDEOSKOPE

### 2.1.2 VUCAM® XO/XO+

#### Accessory kits

#### Optional accessory - VUCAM® XO/XO+ accessory Kits

##### ■ VUCAM® XO/XO+ accessory kit PRO **BEM-30-000194**

With the VUCAM accessory kits you are always well equipped for every inspection.

The **VUCAM XO/XO+ Accessory Kit Pro** includes the following accessories:

- Storage box for optical adapters
- Side view optic adapter 90° DOV, 120° FOV
- Forward view optic adapter 0° DOV, 120° FOV
- 32GB SD-Card
- Battery charging station
- VUCAM spare battery (LiFePo)
- Shoulder strap
- Display protection sheet



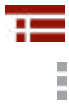
##### ■ VUCAM® XO/XO+ accessory kit PREMIUM **BEM-30-000362**

Das **VUCAM XO/XO+ Accessory Kit Premium** includes the following accessories:

- Storage box for optical adapters
- 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-Cards
- Battery charging station
- VUCAM spare battery (LiFePo)
- Shoulder strap
- **2x** display protection sheets



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



## 2 PORTABLE VIDEOSKOPE

### 2.1.3 VUCAM® XO/XO+

## Accessories



Side view optical adapter  
(close focus)



Straight view 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 MM (CLOSE FOCUS)	BOX-70-000118
----------------------------------------------------------------	---------------

Ideal for narrow test objects where no articulation is possible. This optical adapter changes the direction of view (DOV) to 90°, opens the field of view (FOV) to 120°, and operates in the near-focus range (depth of field (DOF): 2 mm to 120 mm). The design is engineered for tight tube bends and the double thread protection prevents loss of the optical adapter in the test object.

STRAIGHT VIEW OPTICAL ADAPTER DOV 0°, FOV 120° 6 MM (CLOSE FOCUS)	BOX-70-000119
-------------------------------------------------------------------	---------------

Ideal for narrow test objects and in orbital weld inspections. This straight-view optical adapter (DOV 0°) opens the field of view (FOV) to 120° and operates in the near-focus range (depth of field (DOF): 3 mm to 120 mm). It is designed for tight tube bends and the double thread protection prevents loss of the optical adapter in the test object.

SIDE VIEW OPTICAL ADAPTER DOV 90°, FOV 45° 6 MM (FAR FOCUS)	BOX-70-000120
-------------------------------------------------------------	---------------

This optical adapter changes the direction of view (DOV) to 90° side-view and maintains the field of view (FOV) of 45°. With the optical adapter, you can achieve the desired image result in applications with greater distance to the probe tip (far focus with depth of field: 12 mm to ∞). The design is made for tight tube bends and the double thread protection prevents loss of the optical adapter in the application.

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	ITEM-NO.
8.0 mm	6.0 mm	500 mm	Rigid	HVT-90-000137
12.0 mm	6.0 mm	500 mm	Semi-rigid	HVT-90-000141

VUCAM® EXTERNAL INTELLIGENT BATTERY CHARGER	BEM-30-000220
---------------------------------------------	---------------

While you are working with the first set of batteries, the second one is already charging. This means you are always ready for the next job and minimize downtime. The charging station synchronizes and optimizes the individual batteries for long life and operating times. The power pack can be used worldwide and is supplied with a car charger for maximum mobility.

SPARE BATTERY VUCAM®	EXX-91-000114
----------------------	---------------

<b>Type</b>	Rechargeable LiFePo
<b>Power</b>	3,2V DC / 3200 mAh
<b>Function</b>	Integrated deep discharge   Over charge protection   Fast charge   Air transportable
<b>Attention</b>	Please always order 2 pcs and change them together.



## 2 PORTABLE VIDEOSKOPE

### 2.1.3 VUCAM® XO/XO+

## Accessories



Shoulder strap

#### SHOULDER STRAP FOR VUCAM®

FXX-90-000222

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.



32GB SD card

#### SD CARD 32GB

DXX-60-000262

Increase the documentation capacity to several thousand images and video sequences.



Storage box optical adapters

#### STORAGE BOX FOR VUCAM® OPTICAL ADAPTERS

BMX-50-000364

All of your optical adapters and SD cards are protected inside a tailored interior and a solid waterproof box.



Display protective foil

#### VUCAM® TOUCH DISPLAY PROTECTIVE FOIL

MX-70-000392

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.

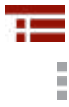


Additional warranty

#### 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.



## 2 PORTABLE VIDEOSKOPE

2.2 VUCAM® XF/XF+



**BATTERY  
POWERED**



**PRE-TRIGGER  
RECORDING**

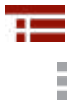


**ROBUST  
CONSTRUCTION**



**CARBON  
DESIGN**

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.



## 2 PORTABLE VIDEOSKOPE

### 2.2.1 VUCAM® XF/ XF+

System kits Ø 4 mm

#### VUCAM® XF

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 x 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
4.0 mm	6600 mm	4 x 160°	85°	0°	4 mm to ∞	VXX-10-001225

The VUCAM® XF is the best choice for Remote Visual Inspections (RVI) in the aviation industry. Record images and videos and save them on an SD card, use pre-trigger recording and adjust brightness and contrast. You also benefit from the zoom-function and full screen mode. Furthermore, you can rotate and mirror the image vertically and/or horizontally.

#### 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°	85°	0°	4 mm to ∞	VXX-10-001209
4.0 mm	2200 mm	4 x 160°	85°	0°	4 mm to ∞	VXX-10-001210
4.0 mm	3300 mm	4 x 160°	85°	0°	4 mm to ∞	VXX-10-001211
4.0 mm	6600 mm	4 x 160°	85°	0°	4 mm to ∞	VXX-10-001220

The VUCAM XF+ model offers you several enhanced soft- and hardware features. Benefit from the integrated video-out and audio-in/out connectivity. Paired with the enhanced pre-trigger recording, you will achieve an even better workflow. Furthermore, push-to-FTP allows you to save your recordings directly on an FTP server. Realtime broadcast via LAN is also possible.





## 2 PORTABLE VIDEOSKOPE

### 2.2.2 VUCAM® XF/XF+

## Accessory kits

### Optional accessory - VUCAM® XF/XF+ accessory Kits

#### ■ VUCAM® XF/XF+ accessory kit PRO **BEM-30-000389**

With the VUCAM accessory kits you are always well equipped for every inspection.

The **VUCAM XF/XF+ Accessory Kit Pro** includes the following accessories:

- Storage box for optical adapters
- Side view optic adapter 90° DOV, 85° FOV (1,5 - 18 mm)
- 32GB SD-Card
- Battery charging station
- VUCAM spare battery (LiFePo)
- Shoulder strap
- Display protection sheet



#### ■ VUCAM® XF/XF+ accessory kit PREMIUM **BEM-30-000469**

Das **VUCAM XF/XF+ Accessory Kit Premium** includes the following accessories:

- Storage box for optical adapters
- Side view optic adapter 90° DOV, 85° FOV (1,5 - 18 mm)
- **Side view optic adapter 90° DOV, 85° FOV (4 - 100 mm)**
- **2x 32GB SD-Cards**
- Battery charging station
- VUCAM spare battery (LiFePo)
- Shoulder strap
- **2x display protection sheets**







## 2 PORTABLE VIDEOSKOPE

### 2.2.3 VUCAM® XF/XF+

## Accessories



Side view  
optic adapter

#### SIDE VIEW OPTICAL ADAPTER VUCAM® XF/XF+ 8 (CLOSE FOCUS)

BOX-70-000124

Optic adapter 90° DOV, 85° FOV, for 4 mm VUCAM probe, focus range 1.5 mm - 18 mm, color marking: red



Side view  
optic adapter

#### SIDE VIEW OPTICAL ADAPTER VUCAM® XF/XF+ (FAR FOCUS)

BOX-70-000133

Optic adapter 90°DOV, 85° FOV, for 4 mm VUCAM probe, focus range 4 - 100 mm, color marking: brown



Battery charger

#### VUCAM® EXTERNAL INTELLIGENT BATTERY CHARGER

BEM-30-000220

While you are working with the first set of batteries, the second one is already charging. This means you are always ready for the next job and minimize downtime. The charging station synchronizes and optimizes the individual batteries for long life and operating times. The power pack can be used worldwide and is supplied with a car charger for maximum mobility.



Shoulder strap

#### SHOULDER STRAP FOR VUCAM®

FXX-90-000222

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

#### SPARE BATTERY VUCAM®

EXX-91-000114

**Typ** 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.



32GB SD card

#### SD CARD 32GB

DXX-60-000262

Expand storage space for your inspection images and videos.



Display protective foil

#### VUCAM® TOUCH DISPLAY PROTECTIVE FOIL

MXX-70-000392

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.

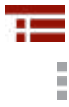


Additional warranty

#### 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.



# 3 VIDEOSCOPE FOR LONG RANGE INSPECTIONS

## 3.1 VUMAN® E3/E3+ (64)

Interchangeable probe system for absolute variety:  
One base unit, 18 standard probes



- Ø 6,1 mm to Ø 12,7 mm
- standard lengths from 5 - 30 m
- patented Remote Focus technology
- X-WAY probes with precise 4-way articulation
- orb weld probes with endless 360° rotation



Due to its diversity and performance, the VUMAN® video endoscope can be used in a wide variety of industrial sectors (nuclear, pharmaceutical, shipping, energy production, ...). The interchangeable probe system increases efficiency and reduces costs, as well as storage and transport expenses, since only one base unit is needed and to which you can connect the currently required probe.

For safe storage and also in use, a large part of the probe can remain on the patented probe drum without affecting the articulation of the camera head.



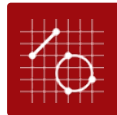
**DUAL  
HIGH-POWER  
LED LIGHT  
SOURCE**



**CARBON  
LIGHT  
DESIGN**



**DIGITAL  
DOCUMENTATION**



**MEASUREMENT  
FUNCTION**



**BATTERY  
POWERED**



**REMOTE  
FOCUS  
TECHNOLOGY**



**X-WAY  
ARTICULATION**



**PATENTED  
DRUM  
STORAGE**



## 3 VIDEOSCOPE FOR LONG RANGE INSPECTIONS

### 3.2 VUMAN® E3/E3+ (64)

Base Unit + Probes

#### The basic principle of the VUMAN E3



VUMAN® E3/E3+  
base unit

- VUMAN® E3/E3+ base unit
- Optionally with or without articulation
- VUSCREEN control unit
- Transport case
- Accessories case
- Optional battery operation

Any V3 probe

- Working length: 5 - 30 m
- Diameter: 6.1 - 12.7 mm
- Field of View (FOV): 45° - 120°
- Direction of View (DOV): 0° - 90°/360°
- up to 160° articulation
- Mounting for centering devices
- Remote Focus

#### Customize your own inspection system

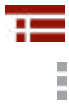
Combine the inspection system VUMAN® with the probes of your choice. Whether VUMAN E3 or VUMAN E3+, non-articulated or with even more sensitive articulation (64) - every VUMAN E3(+) system can be combined with every V3 probe (64).

18 standard probes, various optical adapters, centering and guiding aids create a versatile inspection system with which you are well equipped for every inspection.

Both basic device variants VUMAN® E3 and VUMAN® E3+ can optionally be equipped with an integrated micro-compressor: for perfect X-WAY deflection of a probe length of up to 30 meters. A system without a compressor can also be upgraded afterwards!

The modular design not only makes the VUMAN® particularly versatile, but also represents an extremely economical inspection solution. Probes can be bought individually, repaired or exchanged, software and hardware adjustments are usually also possible afterwards.

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



# 3 VIDEOSCOPE FOR LONG RANGE INSPECTIONS

## 3.3 VUMAN® E3/E3+ (64)

### Software features

#### VUMAN E3

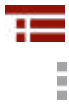


#### VUMAN E3+



	VUMAN® E3	VUMAN® E3+
SOFTWARE KIT	STANDARD SOFTWARE KIT FOR VUMAN E3	ADVANCED SOFTWARE KIT FOR VUMAN E3+
<b>SETUP</b>		
Default user	✓	✓
Individual user 1-9	-	✓
Multi language user interface	✓	✓
Memory	10 GB SSD	80 GB SSD
<b>OPERATION MENU</b>		
Dual LED illumination balance 8x (left/right)*	-	✓
Dual LED illumination boost*	✓	✓
White balance	✓	✓
Digital image processing (Presets)*	-	✓
Long time exposure	-	✓
Flip / Mirror / Zoom	-	✓
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
<b>TEXT GENERATOR</b>		
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	-	✓
<b>FILE MANAGER</b>		
Copy files	✓	✓
Rename files	✓	✓
Delete files	✓	✓
Create folders	-	✓
Create subfolders	-	✓
Copy folders / subfolders	-	✓
Rename folders / subfolders	-	✓
Delete folders / subfolders	-	✓
<b>MEDIA PLAYER</b>		
Video playlist	✓	✓
Image slide show	✓	✓
Play / pause	✓	✓
Forward / backward	✓	✓
<b>MEASUREMENT MENU</b>		
Distances (between two points)*	-	✓
Circles (radius, diameter, circumference, circular area)*	-	✓
Assistance (grid & reference quality)*	-	✓
Save / move / zoom / delete measurements*	-	✓

\* Functions only in connection with V3 VUMAN® probes and base unit from E3.



# 3 VIDEOSCOPE FOR LONG RANGE INSPECTIONS

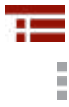
## 3.4 VUMAN® E3/E3+ (64)

### Base units



BASE UNIT	VUMAN® E3	VUMAN® E3 (64)* X-WAY	VUMAN® E3+	VUMAN® E3+ (ANALOG OUT)
ITEM NO.	VXX-10-001196	VXX-10-001227	VXX-10-001198	VXX-10-001200
X-WAY articulation	-	✓	-	-
X-WAY drive	-	Integrated compressor, maintenance free.	-	-
High power dual LED light source	✓	✓	✓	✓
Probe length	max. 20m	max. 20m	max. 20m	max. 20m
Color temperature	6.1 mm: 5.500 K 8.4 mm: 5.000 K	6.1 mm: 5.500 K 8.4 mm: 5.000 K	6.1 mm: 5.500 K 8.4 mm: 5.000 K	6.1 mm: 5.500 K 8.4 mm: 5.000 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) 340 x (H) 425 x (D) 280 mm	(W) 340 x (H) 425 x (D) 280 mm	(W) 340 x (H) 425 x (D) 280 mm	(W) 340 x (H) 425 x (D) 280 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	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	100 - 240V(AC) 50Hz - 60Hz max. 240 Watt
Environmental specifications	Operation: -10°C to +48°C Storage: -25°C to +65°C Relative humidity: max. 95%, non condensing	Operation: -10°C to +48°C Storage: -25°C to +65°C Relative humidity: max. 95%, non condensing	Operation: -10°C to +48°C Storage: -25°C to +65°C Relative humidity: max. 95%, non condensing	Operation: -10°C to +48°C Storage: -25°C to +65°C Relative humidity: max. 95%, non condensing
<b>LCD TOUCH SCREEN CONTROL PANEL</b>	✓	✓	✓	✓
Display size	10.4"	10.4"	10.4"	10.4"
Resolution	1440 x 1080 px	1440 x 1080 px	1440 x 1080 px	1440 x 1080 px
Contrast	1600:1	1600:1	1600:1	1600:1
Brightness	850 cd/m²	850 cd/m²	850 cd/m²	850 cd/m²
Backlight	LED	LED	LED	LED
Colors	True Color	True Color	True Color	True Color
Operation	Touch screen Joystick Direct access buttons	Touch screen Joystick Direct access buttons	Touch screen Joystick Direct access buttons	Touch screen Joystick Direct access buttons
Mounting on base unit / Shoulder strap	✓	✓	✓	✓
Dimensions LCD	(W) 320 x (H) 30 x (D) 230 mm	(W) 320 x (H) 30 x (D) 230 mm	(W) 320 x (H) 30 x (D) 230 mm	(W) 320 x (H) 30 x (D) 230 mm
Weight in kg / lbs	1.6 / 3.5	1.6 kg / 3.5	1.6 kg / 3.5	1.6 kg / 3.5
Construction	Carbon fiber design with all around elastomer bumper Power cable 2.5 m	Carbon fiber design with all around elastomer bumper Power cable 2.5 m	Carbon fiber design with all around elastomer bumper Power cable 2.5 m	Carbon fiber design with all around elastomer bumper Power cable 2.5 m
Software Kit	E3	E3	E3+	E3+

\*Please note: VUMAN E3/E3+ (64) versions are fully compatible with all VUMAN V3 probes.



# 3 VIDEOSCOPE FOR LONG RANGE INSPECTIONS

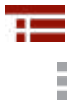
## 3.4 VUMAN® E3/E3+ (64)

### Base units



BASE UNIT	VUMAN® E3+ (64)* X-WAY	VUMAN® E3+ (64)* X-WAY (ANALOG OUT)	VUMAN® E3+ (64)* X-WAY (ANALOG OUT, 30 METERS)
ITEM NO.	VXX-10-001228	VXX-10-001229	VXX-10-001230
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 length	max. 20m	max. 20m	max. 30m
Color temperature	6.1 mm: 5.500 K 8.4 mm: 5.000 K	6.1 mm: 5.500 K 8.4 mm: 5.000 K	6.1 mm: 5.500 K 8.4 mm: 5.000 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 air Rechargeable battery
Dimensions	(W) 340 x (H) 425 x (D) 280 mm	(W) 340 x (H) 425 x (D) 280 mm	(W) 340 x (H) 425 x (D) 280 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: -10°C to +48°C Storage: -25°C to +65°C Relative humidity: max. 95%, non condensing	Operation: -10°C to +48°C Storage: -25°C to +65°C Relative humidity: max. 95%, non condensing	Operation: -10°C to +48°C Storage: -25°C to +65°C Relative humidity: max. 95%, non condensing
<b>LCD TOUCH SCREEN CONTROL PANEL</b>	✓	✓	✓
Display size	10.4"	10.4"	10.4"
Resolution	1440 x 1080 px	1440 x 1080 px	1440 x 1080 px
Contrast	1600:1	1600:1	1600:1
Brightness	850 cd/m²	850 cd/m²	850 cd/m²
Backlight	LED	LED	LED
Colors	True Color	True Color	True Color
Operation	Touch screen Joystick Direct access buttons	Touch screen Joystick Direct access buttons	Touch screen Joystick Direct access buttons
Mounting on base unit / Shoulder strap	✓	✓	✓
Dimensions LCD	(W) 320 x (H) 30 x (D) 230 mm	(W) 320 x (H) 30 x (D) 230 mm	(W) 320 x (H) 30 x (D) 230 mm
Weight in kg / lbs	1.6 / 3.5	1.6 kg / 3.5	1.6 kg / 3.5
Construction	Carbon fiber design with all around elastomer bumper Power cable 2.5 m	Carbon fiber design with all around elastomer bumper Power cable 2.5 m	Carbon fiber design with all around elastomer bumper Power cable 2.5 m
Software Kit	E3+	E3+	E3+

\*Please note: VUMAN E3/E3+ (64) versions are fully compatible with all VUMAN V3 probes.



# 3 VIDEOSCOPE FOR LONG RANGE INSPECTIONS

## 3.5 Interchangeable video probes

**Ø 6.1 mm**



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 +/-120°, left/right +/-100°

\*\*Fastener for optical adapters are additionally available

**Ø 8.4 mm**



interchangeable video probes



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



1.5 bar / 14 psi



OUTER Ø	LENGTH	X-WAY (64-BIT)*	FOV**	DOV**	REMOTE FOCUS	ITEM NO.
8.4 mm	5 m	✓	70°	0°	✓	BEM-30-000548
8.4 mm	8 m	✓	70°	0°	✓	BEM-30-000549
8.4 mm	8 m	-	70°	0°	✓	BEM-30-000285
8.4 mm	12 m	✓	70°	0°	✓	BEM-30-000550
8.4 mm	15 m	✓	70°	0°	✓	BEM-30-000551
8.4 mm	15 m	-	70°	0°	✓	BEM-30-000281
8.4 mm	20 m	✓	70°	0°	✓	BEM-30-000552
8.4 mm	30 m	✓	70°	0°	✓	BEM-30-000553

\* X-WAY articulation up/down +/- 160°, left/right +/-140°

\*\*Fastener for optical side view adapter are additionally available

**Ø 12.7 mm**



Revolver 12.7 video probes



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



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

This probe has a 360° endlessly rotating camera head which makes it most productive and cost efficient at pipe wall and orbital weld seam inspections. User controlled inspection speed and position of the rotating side view mirror deliver fast and optimal inspection results.

\* Custom solution

\*\* Fastener for optical side view adapter are additionally available



# 3 VIDEOSCOPE FOR LONG RANGE INSPECTIONS

## 3.6 Accessories and upgrades

### Accessories



Wide angle adapter 6.1 mm



90° side view adapter 6.1 mm



90° side view adapter 6.1 mm



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 FOR Ø 6.1 MM VUMAN® PROBES	BOX-70-000129
Straight view wide angle optical adapter: DOV 0°, FOV 120°, DOF 4 mm - ∞ for VUMAN 6.1 mm probes. The design allows the use of centering tools.	

90° SIDE VIEW ADAPTER FOR Ø 6.1 MM VUMAN® PROBES	BOX-70-000131
Side-view optical adapter: DOV 90°, FOV 45°, DOF 1 mm - ∞ for VUMAN 6.1 mm probes. The design allows the use of centering tools.	

90° SIDE VIEW ADAPTER FOR Ø 6.1 MM VUMAN® PROBES	BOX-70-000128
Side-view wide angle optical adapter: DOV 90°, FOV 120°, DOF 2 mm - ∞ for VUMAN 6.1 mm probes. The design allows the use of centering tools.	

90° SIDE VIEW PRISM FOR Ø 8.4 MM VUMAN® PROBES	BMX-50-000129
The side-view adapter changes the viewing direction to 90° and maintains the field of view of 70°. Optimized for use with centering tools. Focus range from 2 mm to ∞	

90° SIDE VIEW ADAPTER FOR REVOLVER 12.7 VUMAN® PROBES	BMX-50-000277
The side-view adapter changes the viewing direction to 90° with homogeneous illumination. An anti-reflective, metal-coated glass surface minimizes image disturbances.	

CENTERING DEVICE TOOL KIT FOR Ø 8.4 MM VUMAN® X-WAY PROBES		BMX-50-000197
<b>Centering discs</b>	5 weight optimized centering discs.	
<b>Diameter</b>	60 mm, 44 mm, 34 mm, 24 mm, 17 mm	
<b>Mounting</b>	Probe   Mounting tools and adapters included	
<b>Function</b>	These tools offer simple maneuvering inside tubes and keep the camera safe from residue. The camera head can still be articulated. Positioned in the center they ensure continuous focal distance to the tube wall resulting in repetitive high quality images and faster workflow. The disks are fixed with a split adapter behind the bending neck section on the probe. Therefore, usage is also possible with other videoscopes with the same diameter.	

CENTERING DEVICE TOOL KIT FOR NON-ARTICULATING Ø 8.4 MM VUMAN® PROBES		BMX-50-000302
<b>Centering discs</b>	5 weight optimized centering discs.	
<b>Diameter</b>	60 mm, 44 mm, 34 mm, 24 mm, 17 mm	
<b>Mounting</b>	Camera head   Mounting tools and adapters included	
<b>Function</b>	These tools offer simple maneuvering inside tubes and keep the camera safe from residue. They also ensure continuous focal distance to the tube wall resulting in repetitive high quality images and faster workflow.	





Centering device kit 6.1 mm

CENTERING DEVICE KIT FOR Ø 6.1 MM VUMAN® X-WAY PROBES		BMX-50-000493
<b>Centering discs</b>	5 weight optimized centering discs.	
<b>Diameter</b>	60 mm, 44 mm, 34 mm, 24 mm, 17 mm	
<b>Mounting</b>	Probe   Mounting tools and adapters included	
<b>Function</b>	These tools offer simple maneuvering inside tubes and keep the camera safe from residue. The camera head can still be articulated. Positioned in the center they ensure continuous focal distance to the tube wall resulting in repetitive high quality images and faster workflow. The disks are fixed with a split adapter behind the bending neck section on the probe. Therefore, usage is also possible with other videoscopes with the same diameter.	



Centering device kit 6.1 mm

CENTERING DEVICE KIT FOR NON-ARTICULATING Ø 6.1 MM VUMAN® PROBES		BMX-50-000503
<b>Centering discs</b>	2 weight optimized centering discs.	
<b>Diameter</b>	44 mm, 19 mm	
<b>Mounting</b>	Camera head   Mounting tools and adapters included	
<b>Function</b>	These tools offer simple maneuvering inside tubes and keep the camera safe from residue. Furthermore, they keep continuous focal distance to the tube / tube wall. Works with mounting adapter and mounting groove on endoscope camera head to prevent tool lost inside application.	



Centering device kit 12.7 mm

CENTERING DEVICE KIT FOR VUMAN® REVOLVER 12.7		BMX-50-000457
<b>Centering discs</b>	5 weight optimized centering discs.	
<b>Diameter</b>	80 mm, 60 mm, 46 mm, 36 mm, 26 mm	
<b>Mounting</b>	Probe   Mounting tools and adapters included	
<b>Function</b>	These tools offer simple maneuvering inside tubes and keep the camera safe from residue. Furthermore, using centering tools ensures continuous focal distance to the tube / tube wall.	



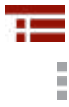
Glass fiber pushing aid 15 m

GLASS FIBER PUSHING AID SET FOR Ø 6.1 MM PROBE, ONLY VUMAN® 15 M		BMX-50-000504
<b>To be mounted 10" / 25 cm before distal scope end</b>		
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 Ø 6 mm probes to hard to reach positions. Change of clamps allows to use same set with different scope diameters. Includes mounting wrench.		



Glass fiber pushing aid 20 m

GLASS FIBER PUSHING AID SET FOR Ø 6.1 MM PROBE, ONLY VUMAN® 20 M		BMX-50-000505
<b>To be mounted 10" / 25 cm before distal scope end</b>		
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 Ø 6 mm probes to hard to reach positions. Change of clamps allows to use same set with different scope diameters. Includes mounting wrench.		



# 3 VIDEOSCOPE FOR LONG RANGE INSPECTIONS

## 3.6 Accessories and upgrades

### Accessories



Glass fiber pushing aid 30 m

<b>GLASS FIBER PUSHING AID SET FOR Ø 6.1 MM PROBE, ONLY VUMAN® 30 M</b>	<b>BMX-50-000506</b>
<b>To be mounted 10" / 25 cm before distal scope end</b>	
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 Ø 6 mm probes to hard to reach positions. Change of clamps allows to use same set with different scope diameters. Includes mounting wrench.	



Glass fiber pushing aid 15 m

<b>GLASS FIBER PUSHING AID SET FOR Ø 8.4 MM PROBE, ONLY VUMAN® 15 M</b>	<b>BMX-50-000281</b>
<b>To be mounted 10" / 25 cm before distal scope end</b>	
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 Ø 8 mm probes to hard to reach positions. Change of clamps allows to use same set with different scope diameters. Includes mounting wrench.	



Glass fiber pushing aid 20 m

<b>GLASS FIBER PUSHING AID SET FOR Ø 8.4 MM PROBE, ONLY VUMAN® 20 M</b>	<b>BMX-50-000349</b>
<b>To be mounted 10" / 25 cm before distal scope end</b>	
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 Ø 8 mm probes to hard to reach positions. Change of clamps allows to use same set with different scope diameters. Includes mounting wrench.	



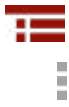
Glass fiber pushing aid 30 m

<b>GLASS FIBER PUSHING AID SET FOR Ø 8.4 MM PROBE ONLY VUMAN® 30 M</b>	<b>BMX-50-000348</b>
<b>To be mounted 10" / 25 cm before distal scope end</b>	
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 Ø 8 mm probes to hard to reach positions. Change of clamps allows to use same set with different scope diameters. Includes mounting wrench.	



Glass fiber pushing aid 15 m

<b>GLASS FIBER PUSHING AID SET FOR Ø 10 MM PROBE, ONLY VUMAN® 15 M</b>	<b>BMX-50-000285</b>
<b>Only for VUMAN® Revolver 12.7</b>	
<b>To be mounted 10" / 25 cm before distal scope end</b>	
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 Ø 10 mm probes to hard to reach positions. Change of clamps allows to use same set with different scope diameters. Includes mounting wrench.	



# 3 VIDEOSCOPE FOR LONG RANGE INSPECTIONS

## 3.6 Accessories and upgrades

### Accessories



X-WAY articulation upgrade

#### BASE UNIT X-WAY UPGRADE VXX-10-001115

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



Transport case

#### TRANSPORT CASE VUMAN® BASE UNIT FOR PROBE LENGTH UP TO 20 M FXX-80-000119

Light-weight, compact and splash water proof HPX® high performance transport, storage and operation case for VUMAN® base unit and accessories. Product tailored 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

#### TRANSPORT CASE VUMAN® BASE UNIT FOR PROBE LENGTH UP TO 30 M FXX-80-000136

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 tailored 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

#### TRANSPORT CASE SPARE PROBE BMX-50-000225

Light-weight, compact and splash water proof HPX® high performance transport case for spare probes. Product tailored 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 ring

#### CAMERA HEAD PROTECTION FOR VUMAN® 8.4 MM RF BMX-50-000299

Spare protection ring for VUMAN® 8.4 mm video probe. This protective ring is used for applications without side-view adapter and protects the fine thread on the camera head.



Camera head protection ring

#### CAMERA HEAD PROTECTION FOR VUMAN® 6.1 MM RF MXX-10-001231

Spare protection ring for VUMAN® 6.1 mm video probe. This protective ring is used for applications without side-view adapter and protects the fine thread on the camera head.



Battery pack

**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

**VUSCREEN CONTROL UNIT FOR VUMAN®/ MATRIX** **BEM-30-000257**

<b>Display size</b>	10.4"
<b>Resolution</b>	1440 x 1080 px
<b>Contrast</b>	1600:1
<b>Brightness</b>	850 cd/m <sup>2</sup>
<b>Backlight</b>	LED
<b>Colors</b>	True Color
<b>Operation</b>	Touch screen   Joystick   Direct access buttons
<b>Dimensions</b>	(W) 320 x (H) 30 x (D) 230 mm
<b>Weight</b>	1.6 kg
<b>Construction</b>	Carbon fiber design with all around elastomer bumper



VUSCREEN Link cable

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.



Display protection sheet

**LCD DISPLAY PROTECTION SHEET** **MXX-70-000274**

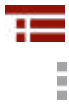
This display cover will perfectly fit and protect your touch screen from any dirt, scratches, chemical substances, corrosion, destruction or deterioration caused by sea water. It is easy to place and replace from the screen and highly transparent. The antireflective coating will provide perfect image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



Customization

**CUSTOMER LOGO/REFERENCE CHARTS DISPLAY** **EXX-99-000101**

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.



# 3 VIDEOSCOPE FOR LONG RANGE INSPECTIONS

## 3.6 Accessories and upgrades

### Accessories



Customization

#### CUSTOM TRANSPORT CASE LABEL

MX-70-000404

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.



Product training

#### INOUSE VUMAN® TRAINING IN ALBSTADT/WOLFENHAUSEN

SXX-20-000111

##### 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, safe storage of the system/spare probe and much more.

Upon request, product trainings are also possible at the customer's location.

# XPANDING YOUR VU



**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)  
[www.vizaar.com](http://www.vizaar.com)  
[info@vizaar.com](mailto:info@vizaar.com)

**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 industrial imaging AG**  
Branch Office North Germany  
Hasklintweg 8  
29339 Wathlingen / Germany  
Tel.: +49 160 93777 644  
Fax: +49 6475 91129-29

## OUR SALES AND SERVICE OFFICES

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

**viZaar Küste/Maritim**  
Sales and Service Office  
25361 Krempe / Germany  
Tel.: +49 171 5524094

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



**viZaar industrial imaging SA**  
3 rue Lambert  
Parc Lavoisier  
91410 Dourdan / France  
Tel.: +33 1608 11818  
Fax: +33 1645 99573  
[www.vizaar.fr](http://www.vizaar.fr)  
[info@vizaar.fr](mailto:info@vizaar.fr)

Authorised sales and service distributor of viZaar®: