



# 4K TOWER • CLASSIC

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Technical Features



**p3. General Overview**



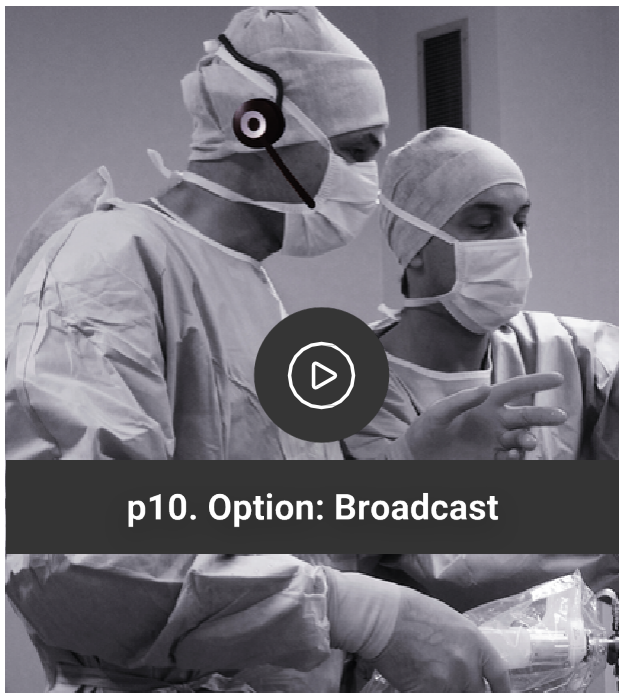
**p4. Medical VCART**



**p6. Monitor**



**p.8 Video Light Processor**



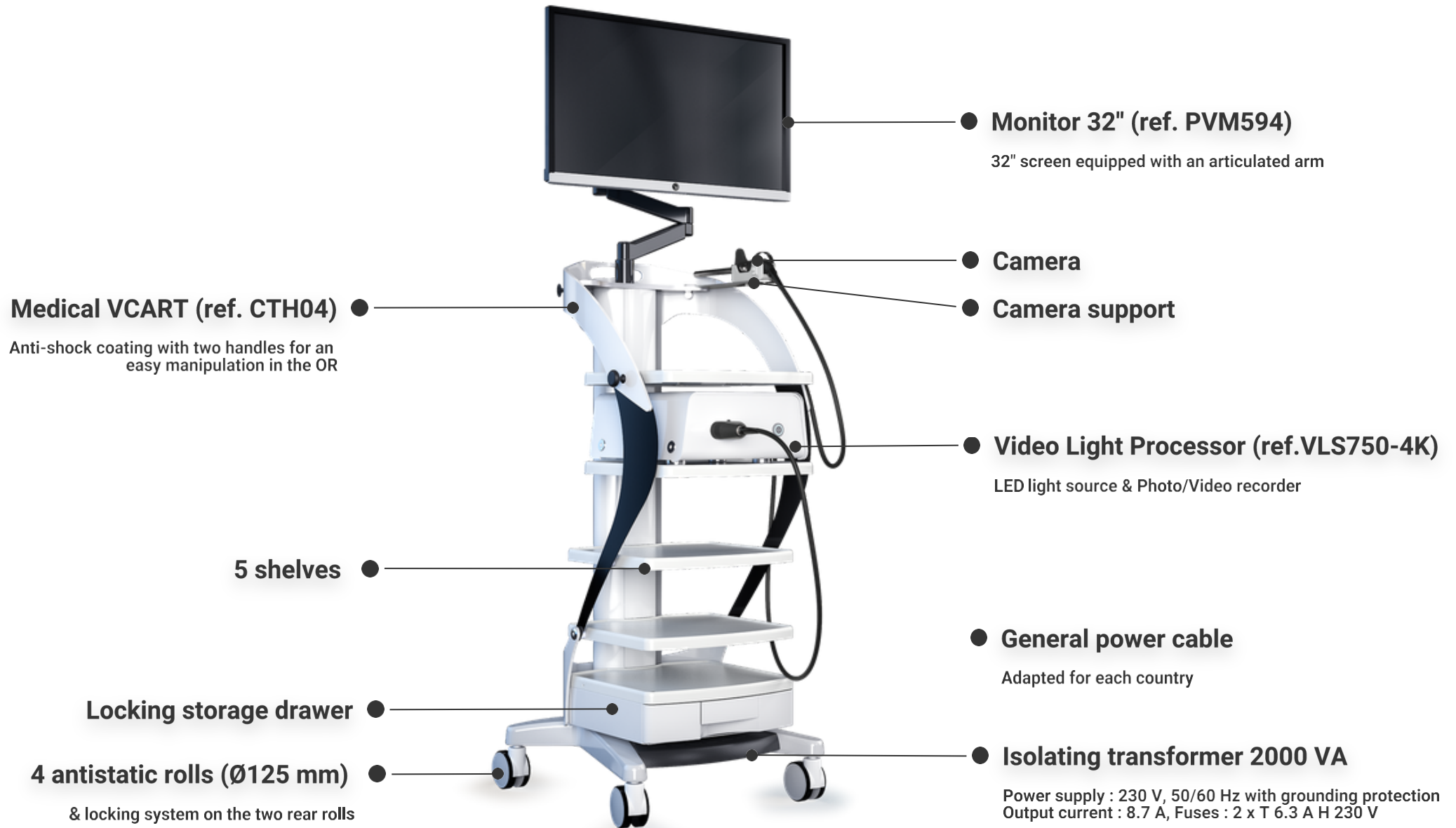
**p10. Option: Broadcast**



**p12. Cameras**



**p17. EndoVcover**



**Medical VCART (ref. CTH04)**

Anti-shock coating with two handles for an easy manipulation in the OR

**5 shelves**

**Locking storage drawer**

**4 antistatic rolls (Ø125 mm)**

& locking system on the two rear rolls

**● Monitor 32" (ref. PVM594)**

32" screen equipped with an articulated arm

**● Camera**

**● Camera support**

**● Video Light Processor (ref.VLS750-4K)**

LED light source & Photo/Video recorder

**● General power cable**

Adapted for each country

**● Isolating transformer 2000 VA**

Power supply : 230 V, 50/60 Hz with grounding protection  
Output current : 8.7 A, Fuses : 2 x T 6.3 A H 230 V

# Medical VCART

Ref. CTH04

## ● Dimensions and load capacity

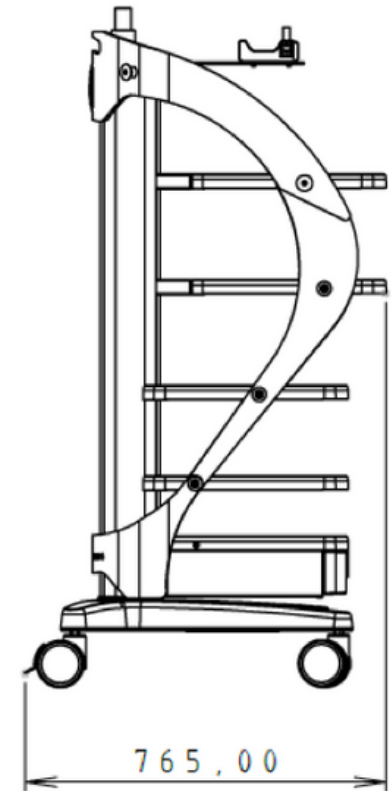
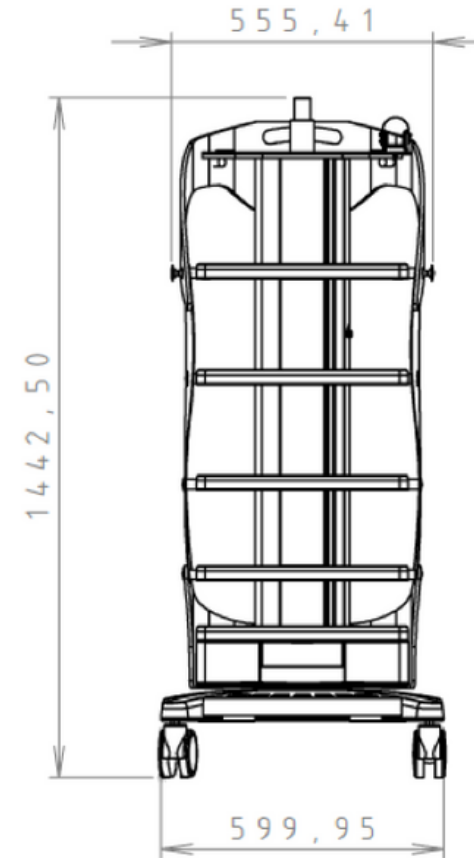
- Dimensions: 1442 x 600 x 765 mm
- Capacity of load (per shelve): 25 kg

## ● Medical VCART composed of:

- 5 shelves
- 1 storage drawer
- 1 isolating transformer 2000 VA
- 4 antistatic rolls
- Camera support

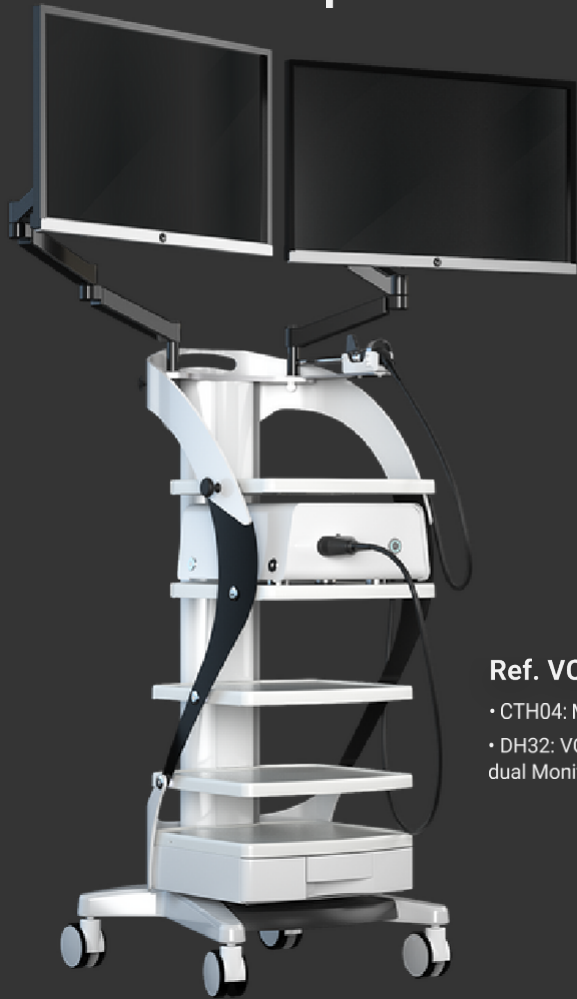
## ● Medical VCART Options

- Bottle support for laparoscopy procedures (ref. GBH01)
- Visualisation on dual-screen 32" (ref. DH32)
- Option for articulated arm (ref. OPN01)
- Additional monitor fitted on a base (ref. CTH05-32)



# Options: Medical VCART

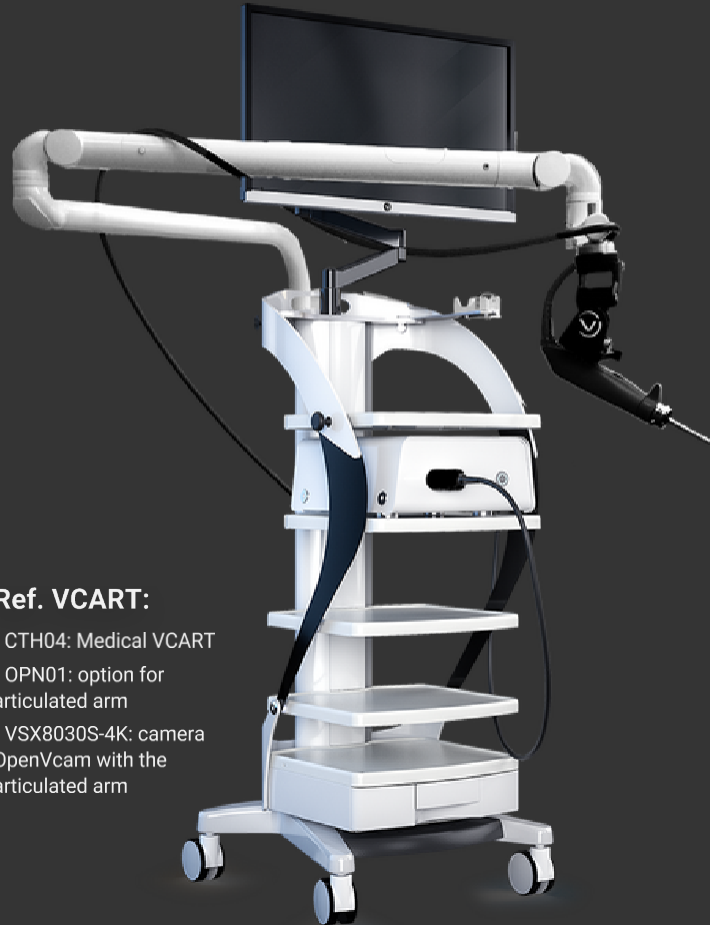
Option: Dual-Screen



**Ref. VCART:**

- CTH04: Medical VCART
- DH32: VCart option for dual Monitor

Option: Articulated arm



**Ref. VCART:**

- CTH04: Medical VCART
- OPN01: option for articulated arm
- VSX8030S-4K: camera OpenVcam with the articulated arm

Option: Additional Monitor



**Ref. VCART:**

- CTH05-32: Medical VCART for additional monitor
- PVM594: Monitor 32"

# Monitor PVM594

## Dimensions & Resolution

### Dimensions & Resolution

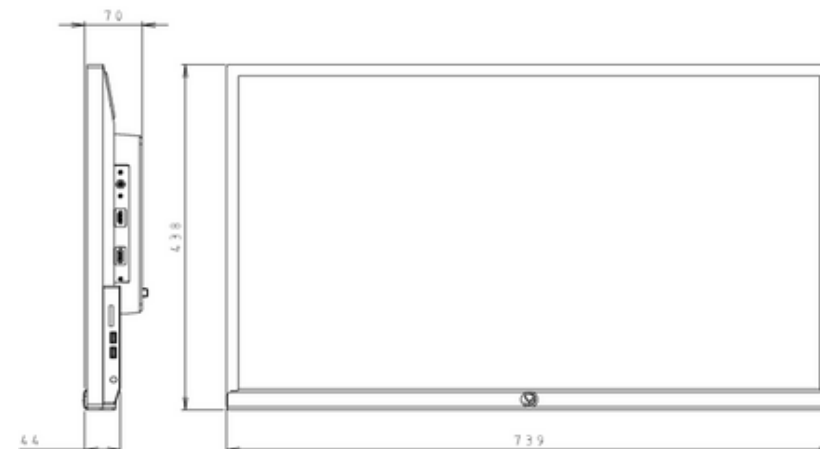
Monitor technology	LCD / LED (backlight)
LCD panel active screen size (diagonal)	32" / 853.7 mm
Visible area active screen size (diagonal)	31.5" / 805.3 mm
Visible area active screen size (HxV)	703 x 393 mm
Visible area aspect ratio (H:V)	16:9
Pixel pitch	0.1704 mm
Color support	10-bit
Color gamut	Native
Viewing angle (HxV)	178°
Compatibility	Compatible with DP 1.4 2160p@60 Hz & HDMI 2.0 2160p@60 Hz
Remote control	Micro USB port



# Monitor PVM594

## Electrical Features

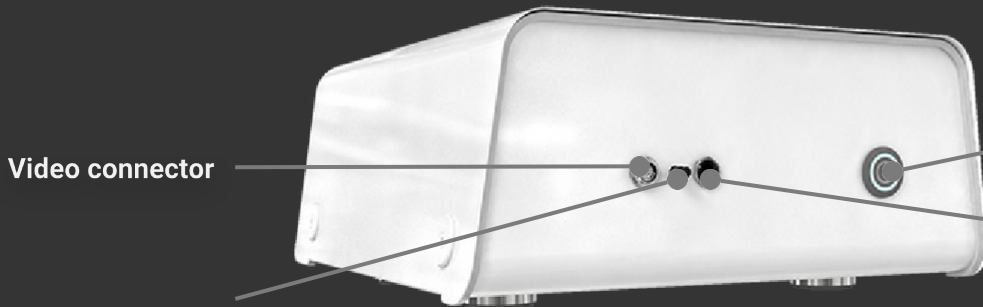
Electrical Features	
Power source requirements for external power supply (nominal)	100 – 250 VAC / 47 – 63 Hz (auto-switch)
Power supply DC output cable length	2,0 m
Power consumption (nominal)	90 W
Cooling	Thermo regulated forced cooling
Power management	Low power modes : Stand-by about 18 W, Power-off about 1 W
OSD languages	English, French, German, Spanish, Italian
Dimensions display (W x H x D)	739 x 438 x 70 mm
Net weight display	11 kg
Ambient temperature for transport and storage	- 20 to +60°C
Relative humidity for transport and storage	5% to 90% R.H.
Atmospheric pressure for transport and storage	70 to 110 kPa
Ambient temperature for its use	0 to +35°C
Relative humidity for its use	10% to 90% R.H.



# Video Light Processor

## Technical Features

### FRONTVIEW



Video connector

Locking system

ON - OFF button for light source,  
processor & monitor  
with power indicator light

LED light source

- Lifetime 50 000 hours (5 years warranty)
- ACMI2 connector for light cable

# Monobloc system

Ref. VLS750-4K

- 1 Base ~ fuses support and power button
- 2 Equipotential socket
- 3 Ethernet socket: RJ45
- 4 USB 3.1 port
- 5 2 x USB 3 ports
- 6 2 x USB 2 ports
- 7 3 x Display Port 1.4 up to 2160p@60 Hz
- 8 USB 3 Port (Touchless)
- 9 USB 3 Port (Touchless)
- 10 XLR socket for monitor PVM594



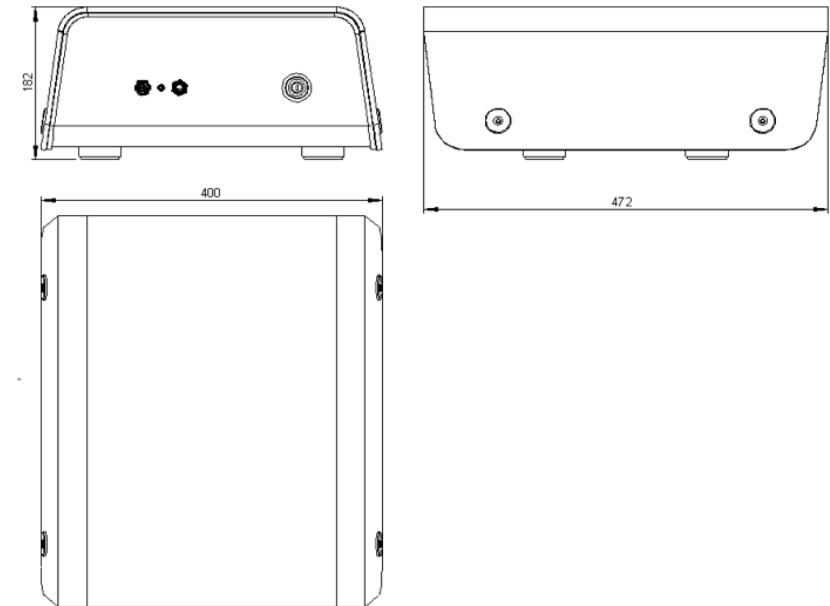
### BACKVIEW

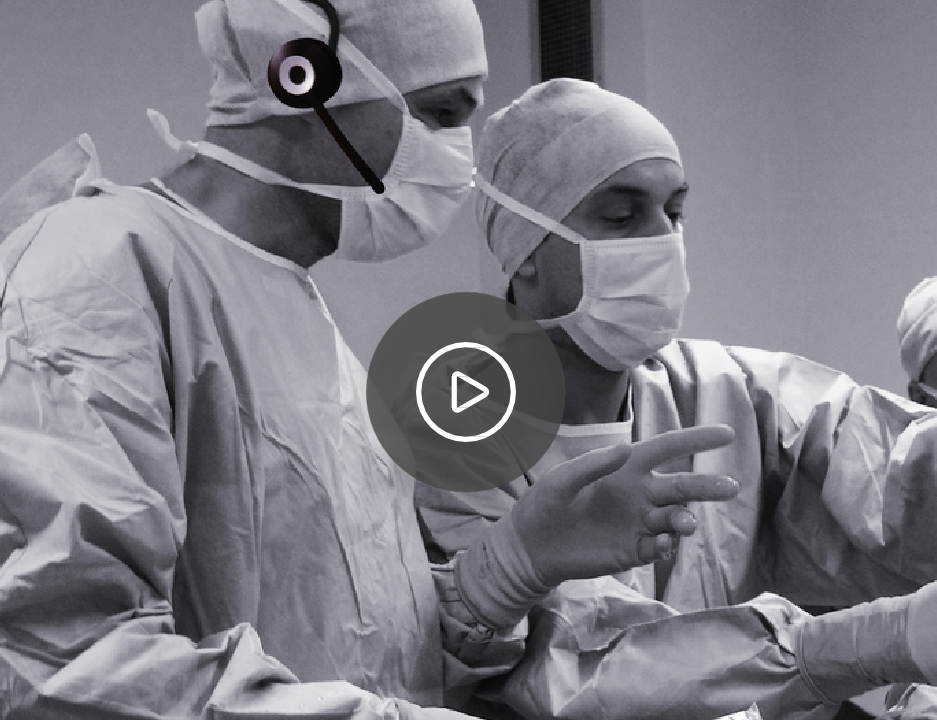


# Video Light Processor

## Technical Features

Technical Features	
Power requirement - Nominal voltage	100 – 240 VCA
Power requirement - Main frequencies	50 – 60 Hz
Power requirement - Input supply	230 VA
Power requirement - Fuses	T 6.3 A H 230 V
Video outputs • 3x display ports	Up to 2160p@60 Hz
Vertical scanning frequency	59,94 Hz
Signal-to-noise ratio	- 58 dB
White balance range	2500 – 9000 K
Dimensions	400 x 472 x 182 mm
Net Weight	12 kg
Ambient temperature for transport and storage	5°C to 60°C
Relative humidity for transport and storage	10 to 90% without condensation
Atmospheric pressure for transport and storage	356 hPa to 1060 hPa
Maximal Altitude for transport and storage	8000 m
Ambient temperature for its use	10°C to 30°C
Relative humidity for its use	10 to 90% without condensation





## Required configurations

### In the OR

Connected RJ45 socket

Bandwidth : upload to 5 Mbits/s

DHCP or fixed IP configuration

### For the retransmission

Computer with Google Chrome & Skype

Visualization system, microphones et speakers

## Option: Broadcast & Touchless System

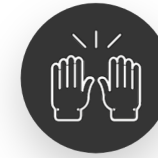
Transmission of live video & audio from the OR for trainings & scientific communication  
Ref. BR01 (with Touchless Interface) or BR02 (Broadcast system only)







Skype



Google Chrome



Touchless System

- **Broadcast: Share the videos of surgeries on a dedicated website**
  - Each tower broadcasts on a dedicated webpage for the surgeon (or for the Hospital) 
  - Chat system 
  - Video recorded on the Vims's host (OVH in France)
- **Visiobroadcast: Use the visiobroadcast & exchange with the attendees**
  - Instant web page: QR Code in the patient menu 
  - Bilateral communication by Skype 
  - Recorded video on webkey
- **Replay: Register without internet connexion directly on a VIMS flashdrive**

# Option: Broadcast & Touchless System

Video light processor: additional equipments

## Microphones & Base

Microphones Master & Slave



## RJ45 Cable

Network connection



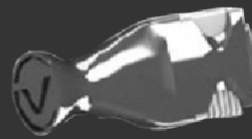
## VIMS Keyboard

USB connection



## Dongle &

DVI / DP adaptor



## Webcam

USB 3.1 &  
USB extension cable



# Monobloc System

Ref. VLS750-4K

## CONFIGURATIONS

### List of ports for networking

ICMP (minimum -> 8.8.8.8, 37.59.21.116, 149.202.56.215 & 151.80.34.33)

TCP : 20, 21, 80, 443, 1935, 1342, 9443

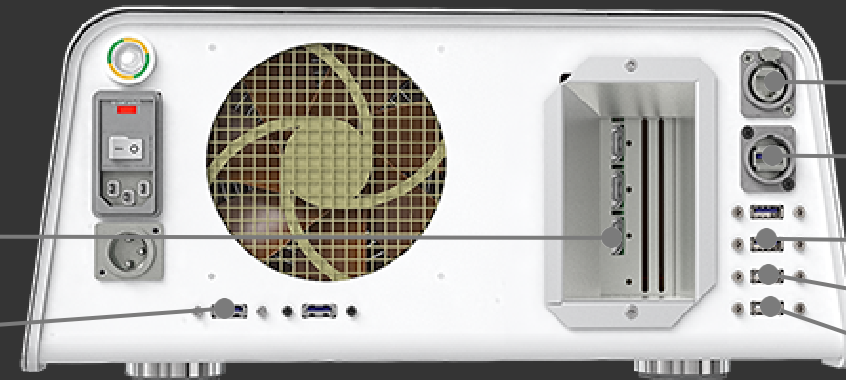
UDP : 3478-3481UDP + TCP : 49000-65535

## BACKVIEW

Dongle

Touchless System

always connected



RJ45 cable

Webcam

VIMS Flashdrive for  
the recordings

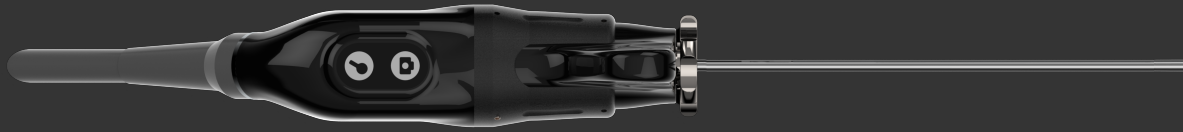
Microphone Base

Keyboard

# Cameras

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Dedicated to arthroscopy



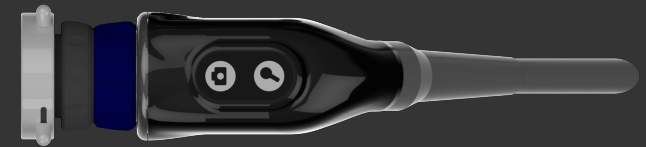
## ArthroVims 30°

Réf. VSX4030J-4K

## EndoVcam

Proximal Camera

Réf. VSX8000PR-4K



## OpenVcam

Réf. VSX8030S-4K



# Cameras

Dedicated to laparoscopy

## EndoVims 5mm 0°

Réf. VSX5000-4K



## EndoVims 5mm 30°

Réf. VSX5030-4K



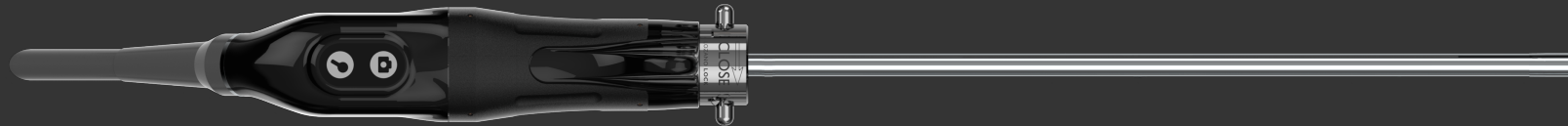
## EndoVims 10mm 0°

Réf. VSX8000-4K



## EndoVims 10mm 30°

Réf. VSX8030-4K



## EndoVcam Proximal Camera

Réf. VSX8000PR-4K



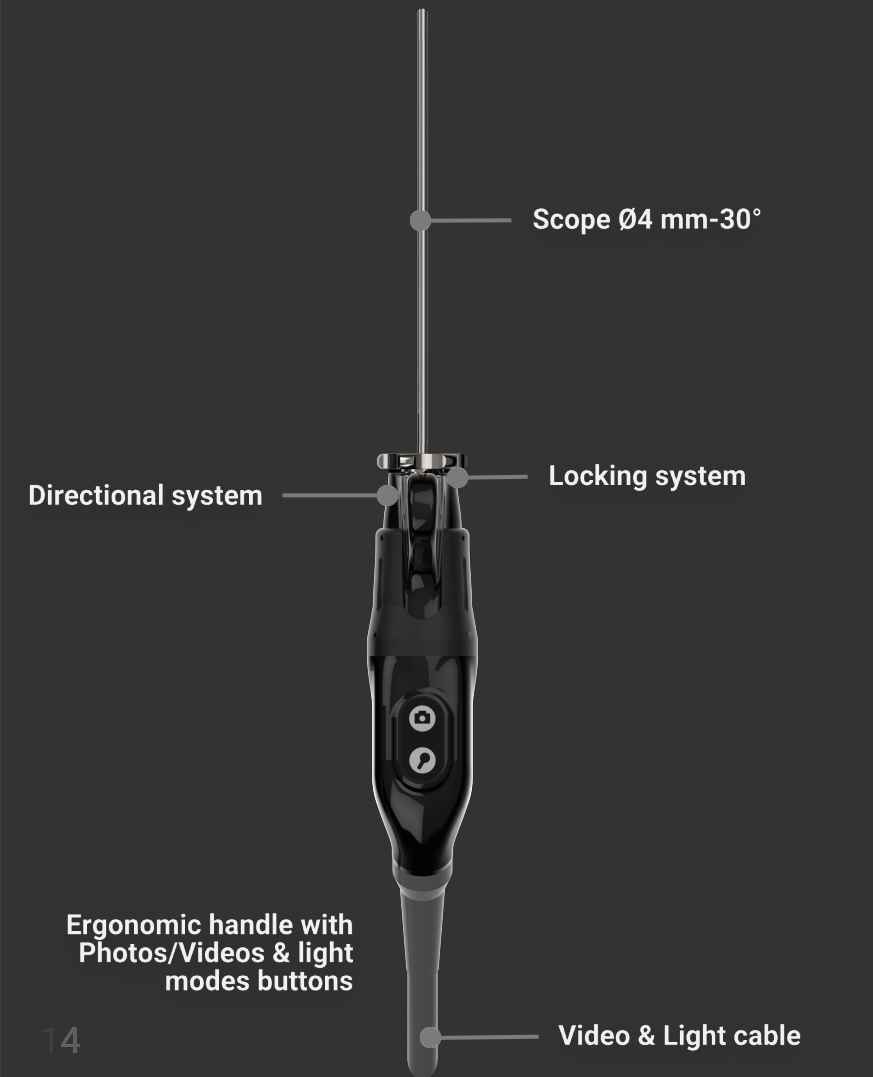
## OpenVcam

Réf. VSX8030S-4K

# ArthroVims: 4K camera

Dedicated to arthroscopy  
Ref. VSX4030J-4K

- **Image Resolution: 4K (2160p @60 Hz)**
- **Easy to use ergonomic monobloc system**
- **Functions of Photos/Videos button:**
  - 1 click to take a photo
  - Press during 2 seconds to activate or stop a video
  - Double-click to activate a slideshow (+ touchless if option)
- **Function of Light modes button:**
  - 1 click to change the light mode
- **Directional system with a rotation angle of -170 ° to 170 °.**
- **Secure locking system for the fixation of the cover to the camera.**
- **The light and video cables are protected in a stainless steel sleeve covered with a rubber cover**
- **Fully sheathed monobloc system with preserved image resolution**
  - Associated single-use cover: LW4030J-UHD
- **No setting required**
  - Settings of focus and shutter at the factory
  - White balance saved after the first commissioning



VSX8000-4K

VSX5030-4K

Scope Ø10 mm-0°

Scope Ø5mm-30°

Locking System

Directional system

Ergonomic handle with Photos/Videos & light modes buttons

Video & Light cable

# EndoVims 0°/30°: 4K cameras

Dedicated to laparoscopy

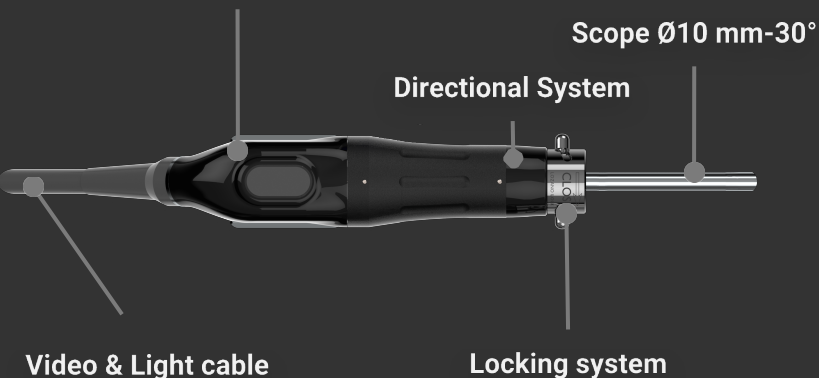
Ref. VSX8000-4K & VSX8030-4K (Ø10mm)

Ref. VSX5000-4K & VSX5030-4K (Ø5mm)

- **Image Resolution: 4K (2160p @60 Hz)**
- **Easy to use ergonomic monobloc system**
- **Functions of Photos/Videos button:**
  - 1 click to take a photo
  - Press during 2 seconds to activate or stop a video
  - Double-click to activate a slideshow (+ touchless if option)
- **Function of Light modes button:**
  - 1 click to change the light mode
- **EndoVims 30° (VSX8030-4K and VSX5030-4K): Directional system with a rotation angle of -170 ° to 170 °.**
- **Secure locking system "twist-lock" for the fixation of the cover to the camera (OPEN & CLOSE positions)**
- **Fully sheathed monobloc system with preserved image resolution**
  - Associated single-use cover: LW10000-UHD & LW10030-UHD for 10mm cameras
  - Associated single-use cover: LW5000-UHD & LW5030-UHD for 5mm cameras
- **No setting required**
  - Settings of focus and shutter at the factory
  - White balance saved after the first commissioning

# OpenVcam & EndoVcam Cameras

Quick connect for articulated arm



- 6K video acquisition
- Connected to 2.5 m long articulated arm
- Ergonomic handle with Photo/Video & Light modes buttons
- Associated single-use cover: LW10030S-UHD

## OpenVcam

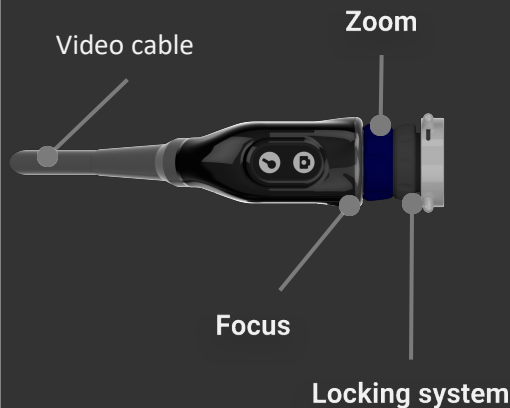
Ref. VSX8030S-4K

Dedicated to open surgery

## EndoVcam

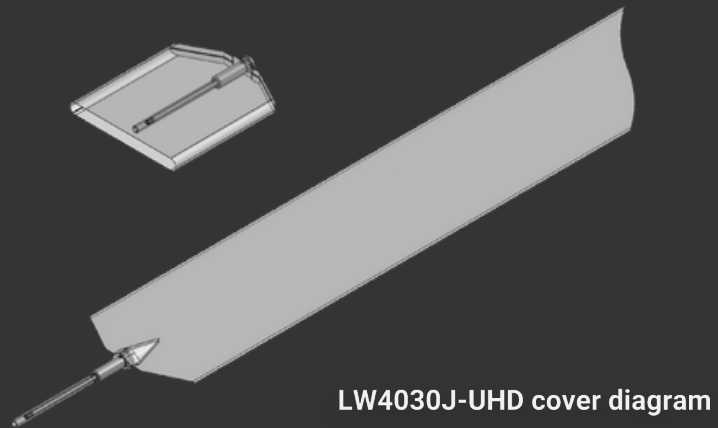
Ref. VSX8000PR-4K

Proximal camera compatible with scopes < 5mm

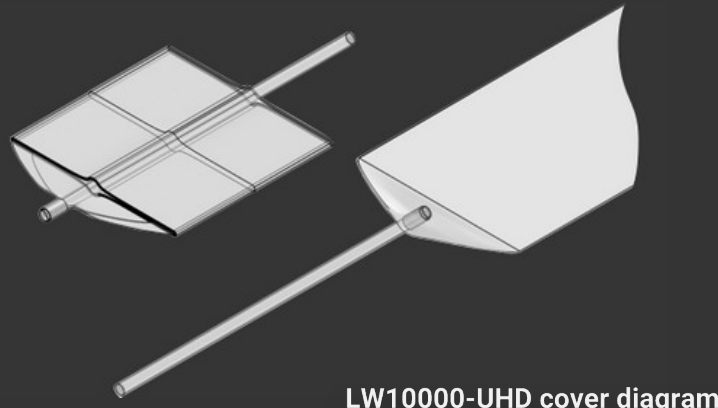


- 7K video acquisition
- Ergonomic handle with Photo/Video & Light modes buttons
- Standard camera cover





LW4030J-UHD cover diagram



LW10000-UHD cover diagram

# EndoVcover

Single-use cover for monobloc camera



## Sterile for 3 years

Sterilisation by EO  
(ethylene oxide)



Packaged  
per 20 units



VIMS  
PAU (France)

- Biocompatible
- Sterilization free for light cable and optic
- Storage condition between 4°C - 40°C
- Latex free and PVC free
- Very resistant & hermetic reducing condensation risks
- Reduction of the costs of use

### Cover References

Arthrovims 4K VSX4030J-4K	LW4030J-UHD
Endovims 4K VSX8000-4K	LW10000-UHD
Endovims 4K VSX8030-4K	LW10030-UHD
Endovims 4K VSX5000-4K	LW5000-UHD
Endovims 4K VSX5030-4K	LW5030-UHD
Openvcam VSX8030S-4K	LW10030-S-UHD

### COMPOSITION

PETG rigid tube (PolyEthylene Terephthalate Glycol) closed at its distal end by a PETG lens  
Hermetically fixed to a PE-LD (PolyEthylene low density) protective cover

Classe IIa Medical Device



VIMS SA - 10 avenue de Fontréal – Eurocentre – 31620 Villeneuve-lès-Bouloc

Tel : +(33)534 450 909 • Fax :+(33)561 228 584

E-mail : [accueil@vims-system.com](mailto:accueil@vims-system.com) – [www.vims-system.com](http://www.vims-system.com)

Siret : 38030839500116 - n°TVA intracommunautaire FR42380308395

Classic 4K - Technical note EN - Ed04 07/2022

Manufacturer : VIMS - Processor/Cameras & Cover

It is highly recommended to read the labels and the IFU.

0459 Class IIa • Monitor & Medical VCART

Class I