micro**Cam** XS
FullHD USB medical camera

Novocam Medical Innovations Oy ▶▶

Everyday communication. The microCam XS is the smallest and lightest FullHD medical camera on the market. Non-interruptive capture adds no time to treatments, allowing the doctor to use images with every patient to explain treatment need and progress. Everyday communication increases treatment acceptance rates, patient satisfaction and patient retention.

microCam XS with 16mm lens
MCXS1601

> The smallest medical camera, designed for comfortable all-day use
> For loupe or headband use, supports most loupe brands and styles.
> Supports many LED head light models, including the futulight.
> Always ready to use, USB plug-and-play simplicity
> Hands-free operation with foot pedal
> Includes futudent recording software and MyDentalBook to share images with patients, colleagues, teachers and students.
> 1080p / 720 p @ 30fps
> 2MP images

OEM products – Our camera, your brand. OEM clients may request customizations such as: OEM logo / labelling on the camera, the surface finish type and colour, OEM company information in the camera firmware.

TECHNICAL DATA

Sensor	OMNIVISION 2735 sensor with manual lens focus
Video res. & framerate	Full HD (1920 x1080p) @ 30 fps HD (1080 x 720p) @ 30 fps
Image size (aspect ratio)	2MP (16:9) maximum
Lens options	ACCL1602: 16mm UHD standard lens with 2.5x magnification for best all-around use. ACCL2502: 25mm UHD close-up with 3.5x - 4.5x magnification.
Materials	Aluminum, PA2200, glass, electronics
Dimensions	14mm wide x 17mm tall x 27mm long including lens
Weight	11 g (0.4 ounces) not including lens
Degree of protection	IPX1
Mounting options	Loupe Headband Light and gooseneck mounting possible, but not recommended. Installation kits sold separately.
Camera control options	PC software / keyboard interface USB Foot pedal (standard hands-free image capture)
Cable and Signal	USB 2.0 Hi-Speed (480Mbit/s) ⌀4mm cable with braided shield Camera cable permanently installed on camera housing.
Cable lengths	1.5m with USB cable (4mm dia.), up to 10m with active USB extension cable (4.75mm dia).
IEC 60601-1	Class I Type B protection class
IEC 60601-1-2	CISPR 11 Group 1 Class B classification
Rated power	5 V d.c. / 100mA nominal / 150mA maximum
Mode of Operation	Continuous operation as a USB device when PC is ON. OFF when USB port is disabled or PC is off.
Compliance	Class I EU MDR / FDA Class I Exempt / CE Marked / RoHS compliant

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COMPUTER CONFIGURATION

Basic requirements for all systems	8GB RAM or higher
	Intel graphics card
	USB2 or USB3 port + additional port for USB foot pedal
	Identified as UVC driver camera device
	Network / internet if used for sharing images
	CPUBenchmark.net rating of 3000 (see video quality below)
	IEC 60601-1 compliant PC for USB electrical isolation
Windows basic requirements	Windows 10 or later operating system
	NET Framework 4.5
	Hardware encoding with QuickSync technology
MacOS basic requirements	OS X version 10.13 (High Sierra) or newer
	Recommended MacBook Pro, iMac, Mac-mini from 2018 or newer.
	Possible to use FullHD use MacBook Pro/Air, iMac, Mac-mini from 2017 or newer.

Video quality requirements	**HD (720p) mode**		**Full HD (1080p) mode**
	> Screen resolution of 1024x768 or higher.		> Screen resolution of 1920x1080 or higher.
	> CPU rating over 3000.		> CPU rating over 5000.

Controlling the system	The following controls and standard with every camera:
	> Foot pedal to capture images and video
	> Camera software GUI
	> PC Keyboard & Mouse

OEM INTEGRATION INFORMATION

Not recommended for OEM integration.
The microCam XS may be white labelled for own-brand use.
See smartCore camera electronics or contact Novocam Medical Innovations for OEM possibilities.

PRODUCT PHOTOS

microCam XS in standard grey/silver anodizing and black lasering.

The microUSB cable is permanently attached to the camera and black as default.

16mm standard lens default.
25mm standard lens possible.
8mm/35mm lenses are larger than the camera and not recommended.

As-delivered: loupe mounting clip on the backplate with microUSB cable connector. The top clip can mount the futulight LED headlight.

The Y-joint allows up-down adjustment of the camera position to aim.

	Loupe mounting with loupe-specific attachment clip. A white microUSB cable connector is a custom, off-book option.
	Universal loupe / glasses clip mounted on the microCam XS. With this clip, the camera can be mounted to any pair of glasses, or suitably shaped surface. The universal loupe clip is less stable than the loupe- or headband-mounted use and is recommended only as a temporary solution.
	microCam XS is not sold with a ball joint mount for overhead light or gooseneck (third hand) mounting. The light and gooseneck installation kits can be bought separately.

	Serial number of camera	SN
	Manufacturer Name	🏭
	CE mark	CE
	Read Instructions / QR code to access instructions	📖
	Medical Device symbol	MD