



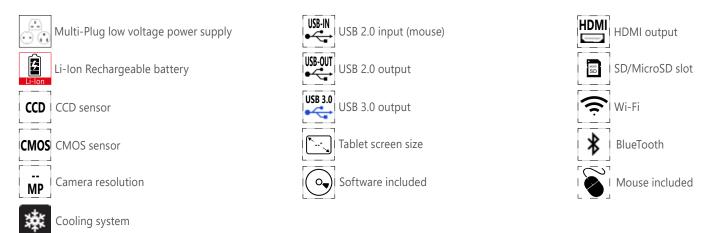
Cameras & Digital Solutions

Cameras for Microscopy & Digital Scanner

CAMERAS & DIGITAL SOLUTIONS

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Microscope Cameras



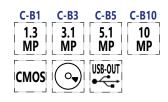
MICROSCOPE CAMERAS

USB CAMERAS - B Series

C-B1 / C-B3 / C-B5 / C-B10



USB user-frienldy cameras for **general purposes**. Superb results and vivid details from standard to high resolution



USB 2.0 C-Mount and Eyepiece Microscope Cameras For General Purposes

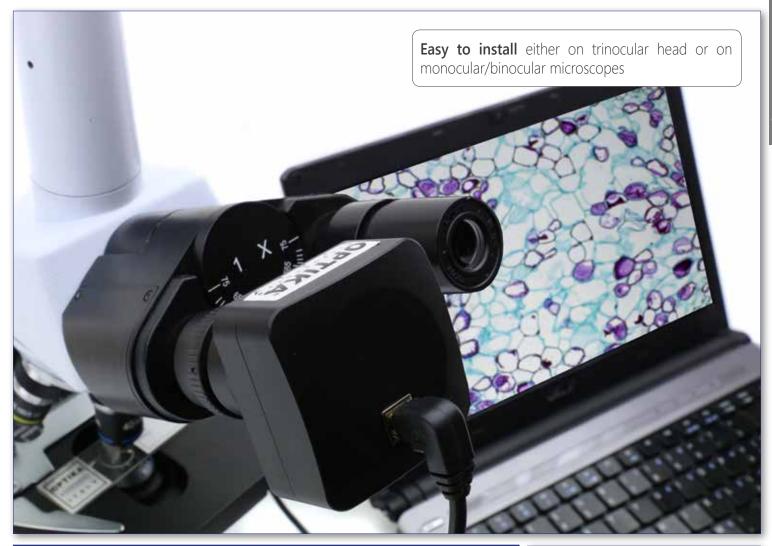
Cameras have become indispensable nowadays and OPTIKA is offering a line of remarkable solutions for digital imaging. OPTIKA B Series represents a cost-effective solution equipped with the latest technology sensors with more vivid colors and great contrast for stunning images. This series features Aptina CMOS sensor with excellent color reproduction, significantly high frame rates and several resolutions available to match any customer need. Thanks to the convenience and simplicity, being extremely intuitive to install and operate, the OPTIKA B Series is recommended for educational and routinary microscopes, also as eyepiece cameras (no need for additional adapters/rings in case of monocular and binocular microscopes). Software included (for Windows): Optika Vision Lite, Optika LiteView and Optika ProView. Optika LiteView is also compatible with IOS & Linux.

USB CAMERAS - B Series - Specifications

	C-B1	С-В3
Digital camera resolution	1.3 MP (1280 x 1024)	3.1 MP (2048 x 1536)
Signal output	USB 2.0	USB 2.0
Sensor Size	1/3"	1/2"
Sensor technology	CMOS	CMOS
Sensor type	Aptina CMOS	Aptina CMOS
Image format	5/4	4/3
Pixel size	3.6 x 3.6 μm	3.2 x 3.2 µm
Frame rate full resolution	15 fps (1280 x 1024)	12 fps (2048 x 1536)
Frame rate other resolutions	50 fps (320 x 256)	32 fps (1024 x 768); 45 fps (680 x 510)
Sensitivity	1 V/lux-second	1 V/lux-second
Signal / noise ratio	44 dB	43 dB
Dynamic range	74 dB	61 dB
ADC conversion	8 Bit	8 Bit
Color Depth	1 Bit; 4 Bit; 8 Bit; 24 Bit	1 Bit ; 4 Bit; 8 Bit; 24 Bit
Exposure Time	0.14 msec - 2 sec	0.244 msec - 2 sec
Binning	1x1; 2x2; 4x4	1x1; 2x2; 3x3
IR filter	380-650 nm (IR-cut filter)	380-650 nm (IR-cut filter)
Camera power	PC USB	PC USB
C-mount	YES	YES

Accessories included: C-mount projection lens, 30 mm / 30.5 mm ring adapters, calibration slide, 1.8 m USB cable.

USB CAMERAS - B Series



C-B5	C-B10
5.1 MP (2592 x 1944)	10 MP (3584 x 2748)
USB 2.0	USB 2.0
1/2.5"	1/2.3"
CMOS	CMOS
Aptina CMOS	Aptina CMOS
4/3	4/3
2.2 x 2.2 μm	1.67 x 1.67 μm
7 fps (2592 x 1944)	3.3 fps (3584 x 2748)
27 fps (1280 x 960); 90fps (640 x 480)	11 fps (1792 x 1374); 38 fps (896 x 684)
0.53 V/lux-second	0.31 V/lux-second
40.5 dB	34 dB
66.5 dB	65.2 dB
8 Bit	8 Bit
1 Bit; 4 Bit; 8 Bit; 24 Bit	1 Bit; 4 Bit; 8 Bit; 24 Bit
0.294 msec - 2 sec	0.4 msec - 2 sec
1x1; 2x2; 4x4	1x1; 2x2; 4x4
380-650 nm (IR-cut filter)	380-650 nm (IR-cut filter)
PC USB	PC USB
YES	YES



USB CAMERAS & TABLETS PC - TB Series



Unique Features

- » Simultaneous camera & power connection
- » Equipped with the latest Windows OS & Intel processor
- » Easily detachable, can be used as a laptop (keyboard included)

USB 2.0 C-Mount Microscope Cameras with Windows Tablet PC For **Unparalleled Comfort & Performance**

Exclusive tablet PC, powerful and versatile for a great user experience. Always one step forward to ensure the latest technology!

- A 2-in-1 solution that you can use like a PC, being Windows-based
- Powerful Intel processor ensuring top performance and speed
- High-resolution, vivid color graphic display
- Large touch screen of 10.1" with fast, responsive and smooth control
- Attached camera available in 3.1 MP (TB-3W) or 5.1 MP (TB-5W) resolution
- Includes the user-friendly and intuitive Optika ProView software
- C-mount connection for trinocular microscopes only

TB-3W



TB-5W



Windows tablet PC with large 10.1" LCD touch screen, combined with a 3.1 MP camera to create the most advanced solution for digital

Windows tablet PC with large 10.1" LCD touch screen, combined with a 5.1 MP camera to create the most advanced solution for digital microscopy.

USB CAMERAS & TABLETS PC - TB Series



Perform linear measurement on your image with **Optika ProView** just by drawing a line!

TABLET TECHNICAL SPECIFICATIONS		
Operating system	Windows 10 (64Bit)	
СРИ	Intel® Atom™ Z8350, Quad core	
CPU speed	1.44 GHz	
Graphic card	Intel® HD Graphics 400	
RAM	Ram 4 GB LPDDR3	
Display size	LED 10.8" IPS Multi Touch Screen	
Display resolution	1920x1200	
Storage	Hdd 64 GB	
Network	Wireless - Bluetooth 4.0	
Input ports	Micro USB - USB - Micro SD card reader	
Output ports	Microphone - Headphone - Micro HDMI	
Battery Type	Lithium-ion Lithium-ion	
Battery capacity	6500 mAh	
Power consumption	15W	
Power supply	5V 3A	
Dimensions (mm)	261 X 167 X 9 mm	
Weight (Kg)	0.53 kg	
Language	Multilanguage	
·		



CAMERA TECHNICAL SPECIFICATIONS	TB-3W	TB-5W
Digital camera resolution	3.1 MP (2048 x 1536)	5.1 MP (2592 x 1944)
Signal output	USB 2.0	USB 2.0
Sensor Size	1/2"	1/2.5″
Sensor technology	CMOS	CMOS
Sensor type	Aptina CMOS	Aptina CMOS
Image format	4/3	4/3
Pixel size	3.2 x 3.2 µm	2.2 x 2.2 µm
Frame rate full resolution	12 fps (2048 x 1536)	7 fps (2592 x 1944)
Frame rate other resolutions	32 fps (1024 x 768); 45 fps (680 x 510)	27 fps (1280 x 960); 90fps (640 x 480)
Sensitivity	1 V/lux-second	0.53 V/lux-second
Signal / noise ratio	43 dB	40.5 dB
Dynamic range	61 dB	66.5 dB
ADC conversion	8 Bit	8 Bit
Color Depth	1 Bit ; 4 Bit; 8 Bit; 24 Bit	1 Bit; 4 Bit; 8 Bit; 24 Bit
Exposure Time	0.244 msec - 2 sec	0.294 msec - 2 sec
Binning	1x1; 2x2; 3x3	1x1; 2x2; 4x4
IR filter	380-650 nm (IR-cut filter)	380-650 nm (IR-cut filter)
Camera power	PC USB	PC USB
C-mount	YES	YES

Accessories included: C-mount projection lens, calibration slide, 1.8 m USB cable , keyboard with touchpad and touch pen.

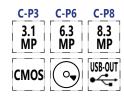
as & Digital

USB CAMERAS - PRO Series

C-P3 / C-P6 / C-P8



Professional cameras with high sensitivity, low noise and impressive capabilities in special applications (on different observation methods)



High-Performance USB 3.0 C-Mount Microscope Cameras For General Purposes With High FPS

Do you require a high-end camera with an especially high resolution, generous dynamic range, rapid read-out rate and a USB3.0 port?

If your answer is yes, then the PRO series is your choice. Its compact and elegantly designed housing conceals the very latest in camera technology. Your images will be of the highest quality and rich in contrast and detail. OPTIKA PRO Series includes a wide range, to virtually fulfill each application demand.

Top-class SONY sensors, worldwide recognized, ensure you to capture your specimen in beautiful true-to-life color, delivering incredibly accurate colors just as you see them.

Software included (for Windows): Optika Vision Lite, Optika LiteView and Optika ProView. Optika LiteView is also compatible with IOS & Linux.

USB CAMERAS - PRO Series - Specifications

	С-Р3	C-P6	C-P8
Digital camera resolution	3.1 MP (2048 x 1536)	6.3 MP (3072 x 2048)	8.3 MP (3840 x 2160)
Signal output	USB 3.0	USB 3.0	USB 3.0
Sensor Size	1/2.8"	1/1.8"	1/2.5″
Sensor technology	CMOS	CMOS	CMOS
Sensor type	SONY EXMOR CMOS	SONY EXMOR CMOS	SONY EXMOR CMOS
Image format	4/3	3/2	16/9
Pixel size	2.5 x 2.5 μm	2.4 x 2.4 µm	1.62 x 1.62 µm
Frame rate full resolution	50 fps (2048 x 1536)	30 fps (3072 x 2048)	32 fps (3840 x 2160)
Frame rate other resolutions	50 fps (1920 x 1080)	38 fps (1536 x 1024)	65 fps (1920 x 1080)
Sensitivity	600 mV at 1/30sec	425 mV at 1/30sec	236 mV at 1/30sec
Dark signal	0.15 mV at 1/30sec	0.15 mV at 1/30sec	0.1 mV at 1/30sec
ADC Conversion	8 Bit - 12 Bit	8 Bit - 12 Bit	8 Bit - 12 Bit
Color Depth	1 Bit; 4 Bit; 8 Bit; 24 Bit	1 Bit; 4 Bit; 8 Bit; 24 Bit	1 Bit; 4 Bit; 8 Bit; 24 Bit
Exposure Time	0.1 msec - 15 sec	0.1 msec - 15 sec	0.1 msec - 15 sec
Binning	1x1	1x1; 2x2	1x1; 2x2
IR filter	380-650 nm (IR-cut filter)	380-650 nm (IR-cut filter)	380-650 nm (IR-cut filter)
Camera power	PC USB	PC USB	PC USB
C-mount	YES	YES	YES

Accessories included: calibration slide, 1.8 m USB cable

USB CAMERAS - PRO Series

4083.F33









USB 3.0 C-Mount Microscope Camera With High FPS

Excellent color reproduction, with high frame rates, the OPTIKA 4083.F33 represents a valuable choice in routinary microscopy. Software included (for Windows): Optika Vision Lite



OPTIKAM FAST3 4083.F33

4083.F33

3 MP

USB 3.0

1/2.7"

CMOS

ISP Integrated Chip

16/9

3.0x3.0 µm

30 fps (1920x1080)

7 fps (2304x1936)

1.275 V/lux-sec (550 nm)

na

8 Bit

8 Bit

330 msec

1x1; 2x2

700 nM

PC USB

YES

Accessories included: calibration slide, 1.8 m USB cable.



USB CAMERAS - PRO Series

C-P6FL



High-performance CCD camera for special applications. Recommended for **professional** microscopes, routinary and research level (on different observation methods)









High-Performance USB 3.0 C-Mount Microscope Cameras For Special Applications

High grade SONY EXView HAD CCD sensor camera with 6.0 MP resolution recommended for special applications thanks to the impressive capabilities in the most challenging working conditions and featuring high sensitivity, low noise and USB 3.0 connection.

Software included (for Windows): Optika Vision Lite, Optika LiteView and Optika ProView. Optika LiteView is also compatible with IOS & Linux.







USB CAMERAS - PRO Series - Specifications

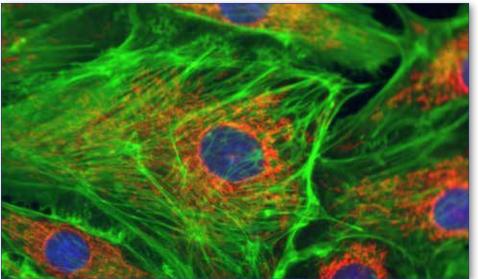
	C-P6FL
Digital camera resolution	6 MP (2748 x 2200)
Signal output	USB 3.0
Sensor Size	1"
Sensor technology	CCD
Sensor type	SONY ExView HAD
Image format	5/4
Pixel size	4.54 x 4.54 μm
Frame rate full resolution	7.5 fps (2748 x 2200)
Frame rate other resolutions	14 fps (2748 x 1092)
Sensitivity	1000 mV at 1/30sec
Dark signal	8 mV at 1/30sec
ADC Conversion	8 Bit - 14 Bit
Color Depth	1 Bit; 4 Bit; 8 Bit; 24 Bit
Exposure Time	0.06 msec - 1000 sec
Binning	1x1
IR filter	380-650 nm (IR-cut filter)
Camera power	PC USB
C-mount	YES

Several focusable C-mount adapters available



Accessories included: calibration slide, 1.8 m USB cable.

USB CAMERAS - PRO Series



CCD sensor ensures significant and **impressive quality** on special techniques, **including fluorescence**.



USB CAMERAS - PRO Series Cooled

C-P20CC / C-P20CM











Ultra High-Performance USB 3.0 C-Mount Cooled **Microscope Cameras For Special Applications**

For special applications, and requiring different observation methods, high sensor size cameras are preferred for the high sensitivity delivering high signal-to-noise ratio (low noise is achieved via cooling) and a large dynamic range. OPTIKA Pro Cooled cameras provide an excellent sensitivity. Peltier-cooled (cooling to 45°C below ambient), with scientific grade CMOS sensor, they ensure great performance in low light conditions, ultra-long exposure time and an impressive reliable color fidelity.

Software included (for Windows): Optika Vision Lite, Optika LiteView and Optika ProView. Optika LiteView is also compatible with IOS & Linux.



USB CAMERAS - PRO Series Cooled - Specifications

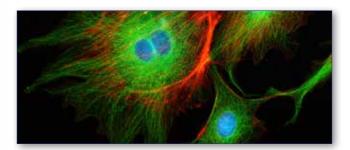
	C-P20CC (Color)	C-P20CM (Monochrome)
Digital camera resolution	20 MP (5440 x 3648)	20 MP (5440 x 3648)
Signal output	USB 3.0	USB 3.0
Sensor Size	1"	1"
Sensor technology	CMOS	CMOS
Sensor type	SONY EXMOR	SONY EXMOR
Image format	3/2	3/2
Pixel size	2.4 x 2.4 μm	2.4 x 2.4 µm
Frame rate full resolution	5 fps (5440 x 3648)	17.8 fps (5440 x 3648)
Frame rate other resolutions	10 fps (4096 x 2160); 15 fps (2736 x 1824); 30 fps (1824 x 1216)	41 fps (4096 x 2160); 51 fps (2736 x 1824); 64 fps (1824 x 1216)
Sensitivity	426mV at 1/30sec	388mV at 1/30sec
Dark Signal	0.21mV at 1/30sec	0.21mV at 1/30sec
Cooling System	Internal two-stage TE cooling system -45°C	Internal two-stage TE cooling system -45°C
ADC conversion	8 Bit - 14 Bit	14 Bit
Color Depth	1 Bit; 4 Bit; 8 Bit; 24 Bit	1 Bit; 4 Bit; 8 Bit; 24 Bit
Exposure Time	0.1 msec - 3600 sec	0.1 msec - 3600 sec
Binning	1x1; 2x2; 3x3	1x1; 2x2; 3x3
IR filter	380-650 nm (IR-cut filter)	380-650 nm (IR-cut filter)
Camera power	PC USB	PC USB
C-mount	YES	YES

USB CAMERAS - PRO Series Cooled





Durable and **safe reinforced plastic case** to protect and store your valuable camera





as & Digital

HDMI CAMERAS - H Series

C-HE



720p HD high-speed microscope camera with Aptina CMOS sensor: **intuitive, entry-level**



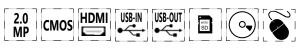
C-Mount & Eyepiece HDMI Microscope Camera For Easy Operation On Screens, No Compromises In Quality

- Aptina CMOS sensor with excellent color reproduction for routine applications
- C-mount connection, eyepiece adapter available on request
- No installation of software required when used in HDMI mode
- HDMI (2 MP, 1280 x 720) camera for screen connection
- Extremely reliable color fidelity
- Lightweight cameras, to be used even on the smallest and lightest microscopes
- SD card enables image and video capturing
- Built-in function buttons for HDMI camera control



C-HP





C-Mount & Eyepiece High-Performance HDMI / USB Microscope Camera For Professional Use On Screens & PC, With Maximum Flexibility

- High grade SONY CMOS sensor for reliable colors
- C-mount connection, eyepiece adapter available on request
- No installation of software required when used in HDMI mode
- HDMI FULL HD (2 MP, 1920 x 1080) camera for screen connection and USB camera for PC use
- Reliable color fidelity
- Highly reccomended for wide range of applications
- SD card enables image and video capturing
- Software included (for Windows): Optika ProView



Professional 1080p FULL HD

high-speed microscope camera with measurement functions for **premium performance**

HDMI CAMERAS - H Series



HDMI CAMERAS - H Series - Specifications

	С-НЕ	С-НР
Video resolution (USB output)	-	1920 x 1080 pixel
Video resolution (HDMI output)	HD 720p	Full HD 1080p
Digital camera resolution	2 MP (1280 x 720)	2 MP (1920 x 1080)
Signal output	HDMI	HDMI
Sensor Size	1/2.8"	1/1.9"
Sensor technology	CMOS	CMOS
Sensor type	APTINA	SONY
Image format	16/9	16/9
Pixel size	2.8 x 2.8 μm	3.75 x 3.75 µm
Frame rate (HDMI)	30 fps (1280 x 720 HDMI); 30 fps (1920 x 1080 Capture)	60 fps (1920 x 1080 HDMI); 26fps (1920 x 1080 USB)
Sensitivity	510 mV at 1/30sec	1120 mV at 1/30sec
Dark Signal	0.15mV at 1/30sec	0.15mV at 1/30sec
Exposure Time	0.06 msec - 1900 msec	0.34 msec - 4 sec
Binning	1x1	1x1
IR filter	380-650 nm (IR-cut filter)	380-650 nm (IR-cut filter)
Camera power	DC 12V 1A	DC 12V 1A
C-mount	YES	YES
White balance	Auto	Auto / Manual
Gain control	Manual	Auto / Manual
Exposure control	Auto / Manual	Auto / Manual

Accessories included: C-HE: 2 m HDMI cable, 16GB SD card, wireless mouse, power supply.

C-HP: Calibration slide, 1.8 m USB cable, 2 m HDMI cable, 16GB SD card, wireless mouse, power supply.

HDMI CAMERAS & SCREEN - H Series

C-HESC



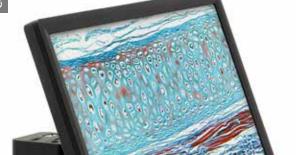












C-Mount HDMI Microscope Camera With 11.5" Full HD LCD Screen, No Compromises In Quality

- All-in-one: save space on the bench, with no need for external devices
- Feel free to tilt the screen and adjust the position to the preferred level, eliminating fatigue during observation
- Aptina CMOS sensor with excellent color reproduction for routine applications
- HDMI (2 MP, 1280 x 720) camera
- C-mount connection for trinocular microscopes only



C-HPSC



















C-Mount High-Performance HDMI / USB Microscope Camera with 11.5" Full HD LCD Screen For Professional Use (also on PC), With Maximum Flexibility

- All-in-one: save space on the bench, with no need for external devices
- Feel free to tilt the screen and adjust the position to the preferred level, eliminating fatigue during observation
- High grade SONY CMOS sensor for reliable colors
- HDMI FULL HD (2 MP, 1920 x 1080) camera for screen connection and USB camera for PC use
- Camera control panel shows exposure, gain, white balance, color adjustment, sharpness and noise control
- On-screen monitor toolbar shows measuring, mirror, comparison, zoom, freeze, cross & browser when using mouse control
- Software included (for Windows): Optika ProView
- C-mount connection for trinocular microscopes only



4

HDMI CAMERAS & SCREEN - H Series





HDMI CAMERAS & SCREEN - H Series - Specifications

	C-HESC	C-HPSC
Video resolution (USB output)	-	1920 x 1080 pixel
Video resolution (HDMI output)	HD 720p	Full HD 1080p
Digital camera resolution	2 MP (1280 x 720)	2 MP (1920 x 1080)
Signal output	HDMI	HDMI
Sensor Size	1/2.8"	1/1.9"
Sensor technology	CMOS	CMOS
Sensor type	APTINA	SONY
Image format	16/9	16/9
Pixel size	2.8 x 2.8 μm	3.75 x 3.75 µm
Frame rate (HDMI)	30 fps (1280 x 720 HDMI); 30 fps (1920 x 1080 Capture)	60 fps (1920 x 1080 HDMI); 26fps (1920 x 1080 USB)
Sensitivity	510 mV at 1/30sec	1120 mV at 1/30sec
Dark Signal	0.15mV at 1/30sec	0.15mV at 1/30sec
Exposure Time	0.06 msec - 1900 msec	0.34 msec - 4 sec
Binning	1x1	1x1
IR filter	380-650 nm (IR-cut filter)	380-650 nm (IR-cut filter)
Camera power	DC 12V 1A	DC 12V 1A
C-mount	YES	YES
White balance	Auto	Auto / Manual
Gain control	Manual	Auto / Manual
Exposure control	Auto / Manual	Auto / Manual

MONITOR TECHNICAL SPECIFICATIONS		
Size	11,5″	
Power supply	12V / 2,5A	
HDMI cable	50 cm	

Accessories included:

C-HE: 2 m HDMI cable, 16GB SD card, wireless mouse, power supply. **C-HP**: Calibration slide, 1.8 m USB cable, 2 m HDMI cable, 16GB SD card, wireless mouse, power supply.

HDMI AUTO-FOCUS CAMERAS - C-HA

C-HA



Equipped with the **state-of-the-art autofocus** system to ensure precise focusing in any condition and in **real time**



C-Mount High-Performance Autofocusing HDMI Microscope Camera

A superb microscope camera with the state-of-the-art autofocusing system, ensuring precise and ultra-fast automatic focus adjustment in any condition and in real time. Ideal to compensate the lack of parfocality of the microscope without any user effort.

- Aptina CMOS sensor with excellent color reproduction for routine applications
- HDMI FULL HD (2 MP, 1920 x 1080) camera for screen connection
- Camera control panel shows exposure, white balance, color adjustment and sharpness when using mouse control
- C-mount connection for trinocular microscopes only



HDMI AUTO-FOCUS CAMERAS - C-HA - Specifications

	С-НА
Digital camera resolution	2 MP (1920 x 1080)
Signal output	HDMI
Sensor Size	1/2.8"
Sensor technology	CMOS
Sensor type	APTINA CMOS
Image format	16/9
Pixel size	2.9 x 2.9 μm
Frame rate (HDMI)	50 fps (1920x1080)
Sensitivity	510 mV at 1/30 sec
Dark Signal	0.15 mV at 1/30 sec
Exposure Time	Auto
Binning	1x1
IR filter	YES
Camera power	5V 2A
C-mount	YES
CS-Mount	YES

Accessories included: 2 m HDMI cable, 16GB SD card, wireless mouse, power supply.



HDMI AUTO-FOCUS CAMERAS - C-HA



WIFI & USB CAMERA - 4083.WIFI

4083.WiFi













WiFi & USB 2.0 C-Mount and Eyepiece Microscope Camera Ideal For Teaching & Discussion Groups

- WiFi & USB connection modes
- 5 MP resolution on USB mode and 2 MP resolution on WiFi mode
- Ideal for educational applications with direct browser / IP connection
- No router is required
- Connectable to PC, smartphones, tablets and any other device
- Approx. 250 users connectable with good speed (speed depends on users connected)
- Supported by any device (PC, tablet or smartphone) with any type of browser (Chrome recomended)
- Lightweight cameras, to be used even on the smallest and lightest microscopes
- Image and video capturing function when used in WiFi mode
- Connection for both trinocular C-mount port and eyepiece tube
- Software included (for Windows): Optika Vision Lite, on USB mode

WIFI & USB CAMERA - 4083.WIFI - Specifications

	OPTIKAM WIFI 4083.WiFi
PC camera resolution	5 MP
WiFi camera resolution	2 MP
Signal output	USB 2.0, WiFi
Sensor Size	1\2.5"
Sensor technology	CMOS
Image format	4\3
Full Image size	2592 x 1944
USB Frame rate Full resolution	3 fps (2592 x 1944)
USB Frame rate other resolutions	11 fps (640 x 480) 8 fps (1024 x 768)
WiFi Frame rate Low resolution	2 fps (640 x 480) with 10 users
WiFi Frame rate other resolutions	1 fps (1024 x 768) with 10 users 1 fps/3sec: (1600 x 1200) with 10 users
WiFi Speed	802.11n 150Mbps
WiFi Antenna	2.4GHz 5DB
Max Exposure time	Automatic
External camera power	5 V 2000mA
White Balance	Auto / Man
Gain Control	Auto / Man
Back light control	Auto / Man
Exposure control	Auto / Man
C-Mount connection	YES
CS-Mount connection	YES, ready

Accessories included: C-mount projection lens, 30 mm / 30.5 mm ring adapters, calibration slide, 1.8 m USB cable

USB & WiFi camera in once. No router is required



WIFI & USB CAMERA - 4083.WIFI



EYEPIECE CAMERAS - Educam & VC Series









EDUCAM - Multimedia cameras to meet various requirements in the educational field

- Direct connection to TV screen and monitor
- Versatile and flexible, yet sturdy and stable at the same time: can be used as overhead projector, for the projection of drawings, as a camera for teleconferences, assemblies, meetings or as a camera for filming
- Up to 90x magnifying power for any specimen and object
- 8mm objective lens enables focus from 0,76 cm, up to an infinite distance
- Extremely sensitive microphone to record voices/sounds (Multimedia models only)
- Includes the user-friendly and intuitive OPTIKA Vision Lite software

All models are equipped with two adapters for video-microscopy (for biological and stereo microscopes)

VC-05 - Simple Eyepiece Microscope Camera With CCD Sensor, 420 TV Lines (PAL)





4083 - 4083.1 - 4083.2 - 4083.3

MIC-4083.5

	MULTIMEDIA / 4083	MULTIMEDIA PRO / 4083.1	STUDENT / 4083.2	STUDENT PRO / 4083.3		
Digital camera resolution	ital camera resolution NO NO		NO	NO		
Analog camera resolution	halog camera resolution PAL 582 x 420 PA		PAL 582 x 420	PAL 582 x 420		
Signal output	nal output PAL PAL		PAL	PAL		
Audio Signal	Signal Analog Ana		NO	NO		
Sensor Size	1/3"	1/3"	1/3"	1/3"		
Sensor technology	CCD	CCD	CCD	CCD		
Image format	4/3	4/3	4/3	4/3		
full Image size		-	-	-		
Frame rate full resolution	50 frames/sec (analog mode)	50 frames/sec (analog mode)	50 frames/sec (analog mode)	50 frames/sec (analog mode)		
Max Exposure time	-	-	-	-		
ON board Memory	NO	NO	NO	NO		
External Memory Card	NO	NO	NO	NO		
External camera power	15V DC power supply	15V DC power supply	12V DC power supply	12V DC power supply		
White Balance	Auto Auto Auto		Auto	Auto		
Gain Control	ontrol Auto Auto Auto		Auto	Auto		
Back light control	ght control Auto Auto		Auto	Auto		
Exposure control	ure control Auto Auto		Auto	Auto		
C-Mount connection	connection YES YES		YES	YES		
CS-Mount connection	-Mount connection NO N		NO	NO		
Arm length	length 50 cm 65		50 cm	65 cm		
8mm objective	YES	YES	YES	YES		

Accessories included:

All models (except VC-05 and C-E2): C-mount projection lens, 30 mm ring adapter, SCART for TV plug.

VC-05: C-mount projection lens, 30 mm / 30.5 mm ring adapters, SCART for TV plug.

C-E2: 30 mm / 30.5 mm ring adapters, 1.8 m USB cable

EYEPIECE CAMERAS - Educam & VC Series

C-E2









User-Friendly Eyepiece Microscope Camera

- Direct connection into the eyepiece tube (23 mm, 30 mm & 30.5 mm diameter)
- No additional adapters required
- Very useful for educational purposes
- Removable miniUSB cable
- Software included (for Windows): Optika Vision Lite, Optika LiteView and Optika ProView.
- Optika LiteView is also compatible with IOS & Linux.



USB / 4083.4	MIC / 4083.5	VC-05	C-E2		
0.3 MP	NO	NO	2 MP		
PAL 582 x 420	PAL 582 x 420	PAL 582 x 420	NO		
PAL , USB2.0	PAL	PAL	USB 2.0		
Analog	NO	NO	NO		
1\3"	1\3"	1\3"	1\3.2"		
CCD	CCD	CCD	CMOS		
4\3	4\3	4\3	4\3		
640 x 480	-	-	1600 x 1200		
50 frames\sec (analog mode), 25 frames\sec (digital mode)	50 frames\sec (analog mode)	50 frames\sec (analog mode)	5 fps (1600x1200) / 7,5 fps (1280x1024) / 22fps (640x480)		
Auto	-	-	Auto		
NO	NO	NO	NO		
NO	NO	NO	NO		
15V DC power supply	12V DC power supply	12V DC power supply	PC USB		
Auto	Auto	Auto	Auto		
Auto	Auto	Auto	Auto		
Auto	Auto	Auto	Auto		
Auto	Auto	Auto	Auto		
YES	YES	NO	NO		
NO	NO	NO	NO		
65cm	-	-	-		
YES	YES	NO	NO		

OPTICAL ADAPTERS - Adapters for OPTIKA Cameras and Microscopes

Upright/Inverted Microscopes (C-mount projection lens)





Stereomicroscopes - LAB 30 (Focusable C-mount adapter)



Stereomicroscopes - SZM / SZO / SZP Series (Focusable C-mount adapter)



		Upright				Inverted		ereo		
		Monocular Binocular (Ø 23mm)	Trinocular (Ø 23mm)	Binocular (Ø 30mm)	Trinocular (Ø 30mm)	Trinocular (Ø 30mm)	Binocular (Ø 30.5mm)	Binocular (Ø 30mm)	Trinocular (Ø 30mm)	Trinocular (Ø 30mm)
Camera models	Sensor size	Ecovision / B-60 B-150 / B-190 B-290 / B-380	B-190 / B-290	B-810 / B-1000	B-380 / B-510 B-810 / B-1000	IM-3 / IM-5	SFX	LAB / SZM / SZO SZP	LAB	SZM / SZO / SZP
C-B1	1/3"	included with the camera	included with the camera	included with the camera	M-620	M-620	included with the camera	included with the camera	ST-418	ST-090
C-B3	1/2"	included with the camera	included with the camera	included with the camera	M-620.1	M-620.1	included with the camera	included with the camera	ST-419	ST-090.1
C-B5	1/2.5"	included with the camera	included with the camera	included with the camera	M-620.1	M-620.1	included with the camera	included with the camera	ST-419	ST-090.1
C-B10	1/2.3"	included with the camera	included with the camera	included with the camera	M-620.1	M-620.1	included with the camera	included with the camera	ST-419	ST-090.1
С-НА	1/2.8"	-	M-115	-	M-620	M-620	-	-	ST-418	ST-090
C-HE	1/2.8"	M-115	M-115	M-115 + M-113.1	M-620	M-620	M-115 + M-113.2	M-115 + M-113.1	ST-418	ST-090
C-HESC	1/2.8"	-	M-115	-	M-620	M-620	-	-	ST-418	ST-090
С-НР	1/1.9"	M-114	M-114	M-114 + M-113.1	M-620.1	M-620.1	M-114 + M-113.2	M-114 + M-113.1	ST-419	ST-090.1
C-HPSC	1/1.9"	-	M-114	-	M-620.1	M-620.1	-	-	ST-419	ST-090.1
C-P3	1/2.8"	M-115	M-115	M-115 + M-113.1	M-620	M-620	M-115 + M-113.2	M-115 + M-113.1	ST-418	ST-090
C-P6	1/1.8"	M-114	M-114	M-114 + M-113.1	M-620.1	M-620.1	M-114 + M-113.2	M-114 + M-113.1	ST-419	ST-090.1
C-P6FL	1"	-	-	-	M-620.3	M-620.3	-	-	M-620.3	M-620.3
C-P8	1/2.5"	M-114	M-114	M-114 + M-113.1	M-620.1	M-620.1	M-114 + M-113.2	M-114 + M-113.1	ST-419	ST-090.1
C-P20CC	1"	-	-	-	M-620.3	M-620.3	-	-	M-620.3	M-620.3
C-P20CM	1"	-	-	-	M-620.3	M-620.3	-	-	M-620.3	M-620.3
TB-3W	1/2"	-	included with the camera	-	M-620.1	M-620.1	-	-	ST-419	ST-090.1
TB-5W	1/2.5"	-	included with the camera	-	M-620.1	M-620.1	-	-	ST-419	ST-090.1
4083.F33	1/2.7"	M-115	M-115	M-115 + M-113.1	M-620	M-620	M-115 + M-113.2	M-115 + M-113.1	ST-418	ST-090
4083.WiFi	1/2.5"	included with the camera	included with the camera	M-114 + M-113.1	M-620.1	M-620.1	included with the camera	included with the camera	ST-419	ST-090.1

v 1.4.0 - OPTIKA reserves the right to make corrections, modifications, enhancements, improvements and other changes to its products at any time without notice.

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