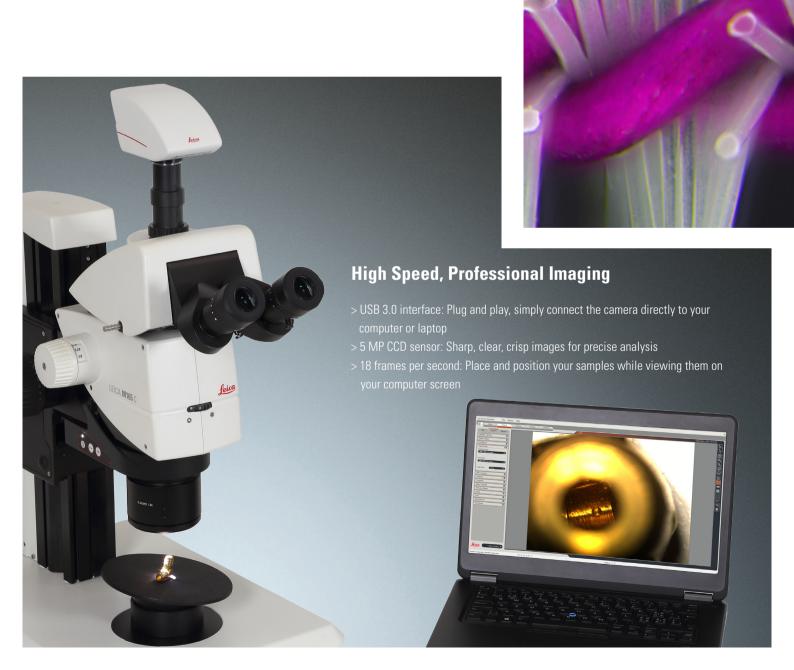
From Eye to Insight





INDUSTRY AND LIFE SCIENCE APPLICATIONS

Capture sharp, brilliant images for everyday analysis and documentation with the Leica DMC4500 color camera. This versatile, easy-to-use tool simplifies your imaging process all the way from capture and processing to analysis.







The outstanding contrast of the Leica DMC4500 on the example of an ephemera larva

Excellent Image Quality

- > Offers excellent noise suppression and perfect acquisition of the unprocessed CCD signal
- > Excellent images at high frame rates, enabled by image pre-processing directly in the camera head of the Leica DMC4500
- > Light collected from the sample is digitized with a depth of 12 bit per color channel. Resulting in the ability to differentiate 6 times more color information than the human eye. And hence leaves plenty of headroom for signal dynamic image post processing without compromising image quality
- > The true-color calibration of the camera provides natural color reproduction, which translates to high-quality images



Fast and Easy - USB 3.0

- > Quickly obtain fast high-quality live images at up to 18 frames per second at SXGA progressive scan and 9 frames per second in full frame mode
- > Place and reposition your samples while viewing directly on the computer screen
- > The USB 3.0 interface makes the camera connection to your computer easy and convenient
- > The system will be up and running in an instant



TECH SPECS

MICROSCOPE CAMERA LEICA DMC4500

MIGHOGOGI E GAMENA ELIGA DING-1000			
Camera type	Digital camera for microscopy with control software		
Sensor	Interline transfer frame readout CCD — ICX282		
Scan area	8.7 mm × 6.5 mm		
Color filter	RGB Bayer mosaic		
Protective color filter	UV & IR filter		
Shutter control	Electronic global shutter / 2 frames interlaced readout		
Number of pixels / pixel size	5 megapixels, 2560 × 1920 / 3.4 μ m × 3.4 μ m		
A/D converter	14 bit		
Dynamic range	59 dB typical / > 900:1 dB		
Readout noise	σ 4.5 LSB (12 Bit) typical		
Exposure time	total: 1 msec - 60 sec, step 1µsec		
Gain control	0 – 20 dB		
Device clock frequency	50 MHz fast scan / 25 MHz high quality (HQ) scan		
Region of interest	Freely adjustable in 2 pixel steps from 2 × 2 up to full resolution		
IMAGE FORMATS	PIXEL	SPEED FPS: (50MHZ/25MHZ)	
Full frame	2560 × 1920 interlaced	9 fps / 4.5 fps / 9 fps	
Color binning (2x2)	1280 × 960 progressive	18 fps / 9 fps	
Subsample	1280 × 960 progressive	18 fps / 9 fps	
Grayscale	Transferred from color binning (2x2) to mono in software		
Modes	Formats in fast (50 Mhz) or high quality (25 Mhz) modes		

COMPUTER

PC requirements	Min. computer configuration Intel Core 2 Duo 2.4 GHz, or faster
	2 GB RAM, high res graphic card with 128 MB or 256 MB RAM
	Direct X V9c or V10 USB3 or free PCI-express slot
Software	Leica LAS and LAS X Software
	Windows 7 and Windows 10 (LAS and LAS X) Windows 8 (LAS only)
	Windows XP not supported

INTERFACES

Recommended video adapter	C-mount 0.63× (stereo microscope) or 0.7× (light microscope)
Data	Single USB3.0 (Micro-B connector with screw lock)
USB Usage: USB 3.0	Full functionality of the camera
USB Usage: USB 2.0	25 MHz clock only, full frame, without: binning, subsample or partial scan

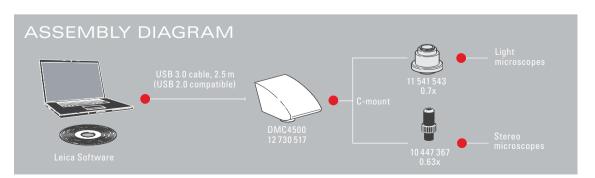
PHYSICAL AND ENVIRONMENTAL

Power consumption	Approx.: 4W (USB 3.0) / 3W (USB 2.0)	
Power supply	Via USB3 cable	
Housing	Die cast aluminum	
Size	112 × 70 × 74 mm	
Weight	410 g	
Operating temperature	5°C to 40°C	
Relative humidity	10% – 90% non-condensing	

ORDER NUMBER

12 730 517

Leica DMC4500 Camera (incl. USB 3.0 PCI Express card, two mounting brackets (long and short), Molex power connector, SATA adapter cable (3x SATA, 1x Molex), USB 3.0 cable (2.5 m), quick start guide, USB 3.0 cable 2.5 m, LAS and LAS X Software)



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