

Data Sheet

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CAM-SC30



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1.1 Article Information

Article code	E0431754
Name	CAM-SC30
Long description	3.3 Mpx, 1/2 inch, colour CMOS Camera. No cooling. Operation via on-screen menu. Dynamic range 3 x 10 bit. PC interface USB 2.0. Including Digital camera CAM-SC30, TWAIN driver and user manual, USB 2.0 cable, Image acquisition software getIT.
Long description, German	3,3 Mpx, 1/2 Zoll, CMOS Farbkamera. Nicht gekühlt. Bedienung über Bildschirmmenü. Dynamikbereich 3 x 10 Bit. PC-Schnittstelle USB 2.0. Digitalkamera CAM-SC30, TWAIN Treiber und Handbuch, USB 2.0 Kabel, Software getIT zur Aufnahme von Bildern sind im Lieferumfang enthalten
Available starting from	April 2008
Difference to predecessor	Different sensor type with 3.3 Mpx

1.2 Predecessor Information

Article code	E0431582
Name	CAM-SC20
Long description	3.3 Mpx, 1/2 inch, colour CMOS Camera. No cooling. Operation via on-screen menu. Dynamic range 3 x 10 bit. PC interface USB 2.0. Including Digital camera CAM-SC30, TWAIN driver and user manual, USB 2.0 cable, Image acquisition software getIT.
Long description, German	2 Mpx, 1/2 Zoll, CMOS Farbkamera. Nicht gekühlt. Bedienung über Bildschirmmenü. Dynamikbereich 3 x 10 Bit. PC-Schnittstelle USB 2.0. Digitalkamera CAM-SC20, TWAIN Treiber und Handbuch, USB 2.0 Kabel, Software getIT zur Aufnahme von Bildern sind im Lieferumfang enthalten
Sales period	June 2008-April 2009

1.3 Similar Products

		DP21	CAM-UC30	CAM-XC30	CAM-XC50	DP25	CAM-SC30
Image sensor	Size	1/1.8 inch	1/1.8 inch	1/1.8 inch	2/3 inch	2/3 inch	1/2 inch
	Total number of pixels	2.11 million	3.34 million	3.34 million	5.24 million	5 million	3.31 million
	Number of effective pixels	2.01 million	3.21 million	3.21 million	4.98 million	4.92 million	3.15 million
Image size		1,600 x 1,200 pixels	2,080 x 1,544 pixels (full resolution)	2,080 x 1,544 pixels (full resolution)	2,576 x 1,932 pixels (full resolution)	2,560 x 1,920 pixels (interlaced readout)	2,048 x 1,532 pixels (full resolution)
		800 x 600 pixels (2 x binning)	1,040 x 772 pixels (2 x binning)	1,040 x 772 pixels (2 x binning)	1,288 x 966 pixels (2 x binning)	1,280 x 960 pixels (progressive readout)	1,024 x 768 pixels (2x binning)
			688 x 514 pixels (3 x binning)	688 x 514 pixels (3 x binning)	640 x 480 pixels (4 x binning)	854 x 640 pixels (interlaced readout)	680 x 512 pixels (3 x binning)
					424 x 318 pixels (6 x binning)	640 x 480 pixels (interlaced readout)	508 x 384 pixels (4 x binning)
Frame rate for live image (standalone mode)		15 fps (full resolution)	7 fps (full resolution)	7 fps (full resolution)	4.5 fps (full resolution)	8 fps (full resolution)	10 fps (full resolution)
Interface		FireWire™ IEEE 1394b for hand set, FireWire™ IEEE 1394a for PC or laptop	FireWire™ IEEE1394a	FireWire™ IEEE 1394a	FireWire™ IEEE 1394a	FireWire™ IEEE 1394a	USB 2.0
External hardware trigger		No	No	No	No	No	No
Remarks		Optional control panel, USB 2.0 flash memory; LAN-interface and serial port: RS-232C, D-SUBpin, directly connectable to DVI-I monitor; optional connection kits to connect the camera to a desktop PC or laptop		Peltier cooling	Peltier cooling	Field update technology, ICC online colour optimisation	

2.1 Specifications

Item		Specification
Type		3.3 Mega pixel, colour CMOS camera. Operation via on-screen menu
Camera mount		Standard C-Mount
Compatible camera adapter		U-TV0.5xC-3-2 (N2691600); Image field: FN 16 U-TV0.63xC-1-2 (N2691700); Image field: FN 12.7 U-TV1X-2-2 (N2691800); Image field: FN 8
Image sensor	Sensor type	MT9T001P12STC
	Size	1/2 inch
	Pixel size	3.2 μm x 3.2 μm
	Total number of pixels	3.31 million
	Number of effective pixels	3.15 million
	Dynamic range, ADC (analogue digital conversion)	10 bit* * actual bit depth of the camera depends on software used
	Cooling	None
Image	Size	2,048 x 1,532 pixels (full resolution) 1,024 x 768 pixels (2 x binning) 680 x 512 pixels (3 x binning) 508 x 384 pixels (4 x binning)
	File format	All formats supported by software
	Olympus True Colour (OTC)	Yes
	Storage media	N/A
Frame rate for live image (Conditions: AMD Phenom II X4 920 at 1 ms exposure time)		10 fps (full resolution) 28 fps (2 x binning) 37 fps (3 x binning) 49 fps (4 x binning)
Readout	Speed	5 -40 MHz
	Partial read-out	No
	Noise	N/A
Exposure control	ISO sensitivity (equivalent)	N/A
	Exposure time	61 μsec to 1.745 sec (full resolution)
External trigger	Hardware	No
	Software	No
Binning / subsampling		Binning 2 x, 3 x, 4 x

Temperature	Control	N/A
	Stability	N/A
Display		None
Interfaces	Image transfer	USB 2.0
	Other	N/A
Power supply		N/A
Optional accessories		None
Operating system requirements		Windows™ XP / Vista
Required software version		analysis getIT (Build 1692 or higher) analysis® FIVE (Build 1692 or higher) and cell* family
Desktop PC requirements		PC with Intel Pentium® 4 $\geq$ 2.4 GHz, Intel®Xeon (DP / MP) or Intel Core™Duo processor (or SSE2 compatible processor) 1024 MB of system memory (RAM) 30 GB hard disk space DVD-ROM drive USB 2.0 connection 1280 x 1024 monitor resolution with 32-bit video card
Weight	Camera head	188 g

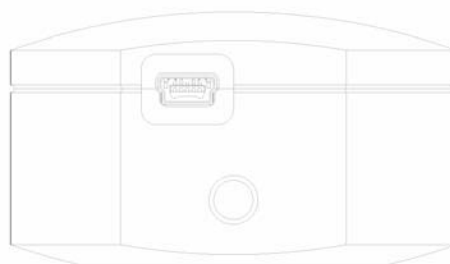
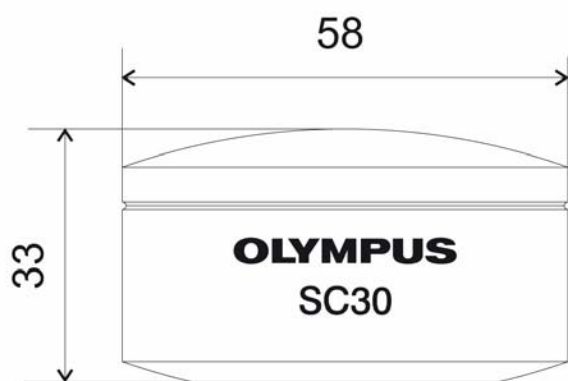
2.2 Restrictions

Topic	Restriction
USB port	USB 2.0 required

2.3 Packing List

Item	Quantity
Digital camera CAM-SC30	1
TWAIN driver and user manual	1
USB 2.0 cable	1
Image acquisition software getIT	1

(Unit: mm)



Weight: approximately 188 g