

echoCAM-E



Model	E-2	E-5 2.0	E-12
Sensor type	SONY 1/2.9"	SONY 1/2.8"	SONY 1/2.33"
Color/Monochrome	Color	Color	Color
Pixel size (µm)	2.8x2.8	2.0x2.0	1.335x1.335
Effective pixels	2.0 MP	5.0 MP	12.0 MP
Scan mode	Progressive	Progressive	Progressive
Shutter	Rolling shutter	Rolling shutter	Rolling shutter
Filter	IR filter	IR filter	IR filter
Frame rate	30fps (1920x1080)	22fps (2560x1920) 30fps (1600x1200)	15fps (4000x3000) 15fps (2592x1944)
Color depth	24bit	24bit	24bit
Bit depth	8 bit	8 bit	8 bit
Exposure control	Manual/Auto	Manual/Auto	Manual/Auto
Integration time(s)	1 ms-2 s	1 ms-2 s	1 ms-2 s
White balance	Manual/Auto	Manual/Auto	Manual/Auto
Operating temperature	0-40°C	0-40°C	0-40°C
Operating humidity	10-85%	10-85%	10-85%
Software included	echolmage Capture 2.0	echolmage Capture 2.0	echolmage Capture 2.0
Operating system	Windows 7/8/10 (32 Bit/64 Bit)	Windows 7/8/10 (32 Bit/64 Bit)	Windows 7/8/10 (32 Bit/64 Bit)
Optical port	C-Mount	C-Mount	C-Mount
Data interface	USB 2.0	USB 2.0	USB 2.0
Dimensions	68X68X42.5 mm	68X68X42.5 mm	68X68X42.5 mm
Weight	330g	330g	330g
Picture format	TIFF/JPG/PNG/DICOM	TIFF/JPG/PNG/DICOM	TIFF/JPG/PNG/DICOM

echoCAM-X

USB 3.0



Model	X-6	X-20
Sensor type	CMOS 1/1.8" - (IMX178LQJ-C)	CMOS 1" - (IMX183CQJ-J)
Color/Monochrome	Color	Color
Pixel size (µm)	2.4x2.4	2.4x2.4
Effective pixels	6.0MP	20.0MP
Scan mode	Progressive	Progressive
Shutter	Rolling shutter	Rolling shutter
Filter	IR filter	IR filter
Frame rate	41fps (3072x2048)	15fps (5472x3468)
	41fps (1536x1024)	53fps (2736x1824)
		67fps (1824x1216)
Bit Depth	8bit (bright field) - 16bit (fluorescence)	8bit (bright field) - 16bit (fluorescence)
Exposure control	Manual/Auto	Manual/Auto
Exposure time	0.13 ms - 15 s	0.13 ms - 15 s
White balance	Manual/Auto	Manual/Auto
Color temperature	2000K-15000K	2000K-15000K
Operating temperature	0-40°C	0-40°C
Operating humidity	10-85%	10-85%
Software included	echoImage Capture 2.0	echoImage Capture 2.0
Operating system	Windows Vista, Windows 7, Windows 8, Windows 10	Windows Vista, Windows 7, Windows 8, Windows 10
Optical port	C-Mount	C-Mount
Data interface	USB 3.0	USB 3.0
Dimensions	68x68x46 mm	68x68x46 mm
Weight	330g	330g
Picture format	JPG/PNG/TIFF/DICOM	JPG/PNG/TIFF/DICOM

echoCAM-T

CONTROLLED BY
USB MOUSE



Model	T-III
Sensor type	CMOS 1/2.8"
Color/Monochrome	Color
Pixel size (µm)	2.8x2.8
Scan mode	Progressive
Image processor	Built-in ISP
Dynamic resolution	2MP (1920x1080)
Static resolution	6MP (3264x1836)
Filter	IR filter
Frame rate	30fps@USB 2.0 30fps@HDMI
Video recording	30fps@SD Card
Color Depth	24bit
A/D conversion	8 bit
Capture	SD card 16G
Weight	440g

echoSCREEN

SUITABLE WITH
CAMERA T-III



Model	A-1
Screen size	11.6"
Screen ratio	16:09
Resolution	1080P (1920x1080)
Display mode	IPS-Pro
Static contrast ratio	1000:01:00
Port	HDMI
Brightness	320cd/m2
Power supply	12V,2A
Dimensions	282x180x15 mm
Weight	600 g

Support for echoCAM-T

echoSCREEN A-1 can be connected to echoCAM-T series to reproduce the real image like a tablet.

In this configuration is possible to use software image management echolmage Capture 2.0 without a computer by an USB 2.0 mouse.



echoCAM-Z



Model	ZC-20
Sensor type	SONY
Type	Cooled
Color/Monochrome	Color
Pixel size (µm)	2.4x2.4
Effective pixels	20MP
Scan mode	Progressive
Shutter	Rolling shutter
Filter	IR filter
Frame rate	14fps @5472x3648 53fps @2736x1824 67 @1824x1216 fps
Sensitivity	280mV/lux-sec
Low-speed readout	Yes
Color depth	36 bits
Bit depth	8/16bit
Exposure control	Manual/Auto
Exposure time	0.244ms - 2min
White balance	Manual/Auto
Operating temperature	0-40°C
Operating humidity	10-85%
Cooling	Forced air
Cooling temperature	-15°C
Software included	echoImage Capture 2.0
Operating system	Windows(32bit/64bit)
Optical port	C-Mount
Data interface	USB 3.0
Dimensions	85x85x100 mm
Weight	1,2 kg

Ruler-U

Calibration Ruler



Model	Ruler-U
Calibration ruler	1 Div=0.1mm
	1 Div=0.01mm
	ø0.15mm
	ø0.07mm

