echoLAB®

Data Sheet

echoCAM-E

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Microscope Cameras

Model	E-1.3	E-3	E-5	E-10
Sensor type	CMOS 1/3" Micron MT9P031	CMOS 1/2" Micron MT9T001	CMOS 1/2.5" Micron MT9P031	CMOS 1/2.3" Micron MT9J001
Color/Monochrome	Color	Color	Color	Color
Pixel size (µm)	3.6x3.6	3.2x3.2	2.2x2.2	1.67x1.67
Effective pixels	1.3MP	3.0MP	5.0MP	10.0MP
Scan mode	Progressive	Progressive	Progressive	Progressive
Shutter	Rolling shutter	Rolling shutter	Rolling shutter	Rolling shutter
Filter	RGB	RGB	RGB	RGB
Frame rate	15fps (1280x1024)	10fps (2048x1536 Full Frame)	5fps (2592x1944 Full Frame)	3fps (3856×2764 Full Frame)
	30fps (640x480)	25fps (1024x768)	21fps (1280x960)	8fps (1832×1370)
	-	40fps (640x480)	25fps (1024x768)	28fps (916×680)
	-	-	38fps (640x480)	-
Color depth	24bit	24bit	24bit	24bit
A/D	8 bit	8 bit	8 bit	8 bit
Sensitivity	1.3V/lux-sec @ 550 nm	1.3V/lux-sec @ 550 nm	1.3V/lux-sec @ 550 nm	1.3V/lux-sec @ 550 nm
Exposure control	Manual/Auto	Manual/Auto	Manual/Auto	Manual/Auto
Integration time(s)	1 ms-0.3 s	1 ms-0.5 s	1 ms-0.8 s	1 ms-1 s
White balance	Manual/Auto	Manual/Auto	Manual/Auto	Manual/Auto
Dynamic range	60dB	54dB	60dB	56dB
Noise level	55dB	44dB	42dB	42dB
Operating temperature	0-60°C	0-60°C	0-60°C	0-60°C
Operating humidity	45-85%	45-85%	45-85%	45-85%
Storage temperature	−20°C to 70°C	−20°C to 70°C	−20°C to 70°C	−20°C to 70°C
Software included	echoIMAGE-IS Capture	echoIMAGE-IS Capture	echoIMAGE-IS Capture	echoIMAGE-IS Capture
Operating system	Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10, iOS	Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10, iOS	Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10, iOS	Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10, iOS
Optical port	C-Mount	C-Mount	C-Mount	C-Mount
Data interface	USB2.0/480Mb/s	USB2.0/480Mb/s	USB2.0/480Mb/s	USB2.0/480Mb/s
Dimensions	70x40x30mm	70x40x30mm	70x40x30mm	70x40x30mm
Weight	1kg	1kg	1kg	1kg

We reserve the right to make changes without notice

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