

VIDEOLOGY®

IMAGING SOLUTIONS INC.
Original Equipment Manufacturer

Standard Resolution USB 2.0 Color Box Camera

20K748USB/21K748USB

Product Features

- All-digital design uses camera board's digital (D1) output for input to USB board
- CCD sensor provides high sensitivity and image quality
- USB 2.0 bus provides power and camera control
- Complete SDK available

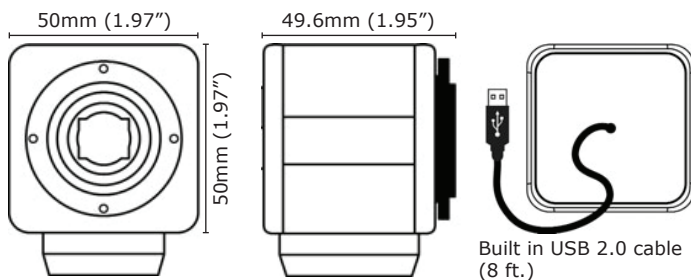
Software

- WDM device drivers Digitally signed by Microsoft® under Windows XP®
- DirectX compliant
- TWAIN compliant on Windows XP



20K748USB shown
(w/ CS mount & optional lens)

Technical Specifications



	20K748USB NTSC	21K748USB PAL
Electrical	1/4" IL CCD	
Image Sensor	1/4" IL CCD	
Active Pixels (HxV)	510 x 492	500 x 582
Viewer Display (USB 2.0, 30fps) (USB 1.1, 30fps)	720 x 480 pixels max (USB 2.0, 30fps)	720 x 576 pixels max (USB 2.0, 30fps)
	320 x 240 pixels max	
Sensitivity	<0.5 Lux (50 IRE) F1.2 3200K, lens transmission 80%, scene reflection 75%	
Signal to Noise Ratio	>48dB *AGC off)	
Gamma	0.45 default (1.0 via Software)	
Gain Control	Automatic 36 dB (AGC default) or Fixed options via software	
Scan Mode	Interlaced / Non Interlaced (selectable via Software)	
Mirror Mode	Yes Selectable via software	
Synchronization	Internal	
Back Light Compensation	Default on (selectable via software)	
Contour Enhancement	Default on	
Iris Control	CCD Iris default	
White Balance Mode	AWB auto white mode, Fixed modes selectable via software	
Shutter Speeds	Automatic	
	14 fixed speeds via software 1/60 - 1/100,000	14 fixed speeds via software 1/50 - 1/100,000
Control Communication	Camera control via USB bus	
Power Supply	5VDC via USB bus	
Power Consumption	< 1.3 W	

Environmental

Operating Temp.	-15° C ~ 55° C (5° F ~ 131° F)
Storage Temp.	-25° C ~ 70° C (-13° F ~ 158° F)
Operating Humidity	20 up to 93%RH
Storage Humidity	Up to 98%RH

Mechanical

Dimensions (WxHxD)	50mm x 50mm x 49.6mm (without lens mount) 1.97" 1.97" x 1.95"
Lens	Metal CS mount
Cable	Integrated 8.2 ft USB cable

Software

	Software for entire product family: <ul style="list-style-type: none"> • WDM device drivers Digitally signed by Microsoft® under Windows XP® • DirectX compliant • TWAIN compliant on Windows XP®
	Full camera DSP control available for OEMs
Data Rate	480 Mb/sec. (maximum) Distance 5m W/repeater 30m
Installation Software SFT-04040	Camera Device Driver Viewer (GUI) User's Manual
SDK SFT-04040-SDK	Complete software development kit and support for OEMs

Minimum System Requirements

A PC with USB 2.0 compatible port		
Preview Mode	PIII	1.1GHz or above 128MB of RAM (256MB preferred) DirectX 9.0c or later
	Windows XP	Service Pack 1 (Service Pack 2 preferred)
	Windows 2000	Service Pack 4
Capture Mode	Full D1 MPEG 2	P4 - 2.4GHz or above
	640 x 480 MPEG 2	P4 - 2.0GHz or above
	352 x 288 MPEG1	P4 - 1.5GHz or above
	Hard Disk	5400RPM (7200RPM preferred) 128MB of RAM (256MB preferred)
	Windows XP	Service Pack 1 (Service Pack 2 preferred)
	Windows 2000	Service Pack 4

Verify your system has the latest USB 2.0 host driver from Microsoft® only.
This product is not guaranteed to operate with USB 2.0 host drivers from OWC.

Recommended System Requirements

Hardware	Pentium IV	2.3GHz +, 1GB hard drive, Intel USB 2.0 Host controller
Software	Windows 7	32 bit and 64 bit
	Windows Vista	32 bit and 64 bit
	Windows XP	Service pack 2 +, DirectX 9.0c or above

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All data subject to change without notice.

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