



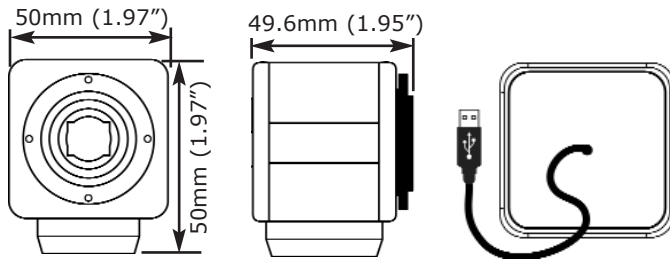
### Camera Features

- **All-Digital Design Uses Camera Board's Digital (D1) Output For Input To USB Board**
- **CCD Sensor Provides Optimal Image Quality**
- **USB 2.0 Bus Provides Power To Camera**
- **Camera Control Over USB**
- **Software**
  - WDM device drivers Digitally signed by Microsoft® under Windows XP®
  - DirectX compliant
  - TWAIN compliant



20K745USB Shown w/CS Mount

Videology's WDM drivers are digitally signed by Microsoft® certifying the software has been tested with Windows XP® and has not been altered since testing, enabling compatibility with your applications.



### Technical Specifications

<b>Electrical</b>	20K74XUSB NTSC	21K74XUSB PAL
CCD Sensor	1/4" IL CCD	
Active Pixels (HxV)	510 x 492	500 x 582
Viewer Display		
(USB 2.0, 30fps)	720 x 480 pixels max	720 x 576 pixels max
(USB 1.1, 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	> 48 dB (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	Selectable via software	
Synchronization	Internal	
Back Light Compensation	Default on (selectable via software)	
White Balance Mode	AWB auto white mode, Fixed modes selectable via software	
Contour Enhancement	Default on	
Iris Control	CCD Iris default	
Shutter Speeds	Automatic from 1/60 to 1/100,000	Automatic from 1/50 to 1/100,000
	14 fixed speeds via software	
Control Communication	Camera control via USB bus	
Power supply	5VDC via USB bus	
Power Consumption	< 1.3 W	

### Environmental

Ambient Operating Temp.	-15° C to + 55° C (05° F to + 131° F)
Ambient Operating Humidity	20 up to 93%RH
Storage Temp.	-25° C to + 70° C (-13° F to + 158° F)
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 mounts	Replace "X" in model number with desired lens mount option:
Example: = Change 20K74XUSB to 20K745USB to select an M-12 Board Mount.	5 = Metal M-12 Mount      8 = Metal CS Mount
Cable	60C1062 - 8.2 ft, 6-pin JST to USB 2.0

### Software

Software for entire product family:	
<ul style="list-style-type: none"> <li>• WDM device drivers <i>Digitally signed by Microsoft® under Windows XP®</i></li> <li>• DirectX compliant</li> <li>• TWAIN compliant</li> </ul>	
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
<b>SDK</b> 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.		
<b>This product is not guaranteed to operate with a USB2.0 host driver from OWC.</b>		

