

# VIDEOLOGY®

IMAGING SOLUTIONS INC.  
Original Equipment Manufacturer

## High Resolution USB 2.0 Color Box Camera

20K75XUSB-C/21K75XUSB-C

### Product Features

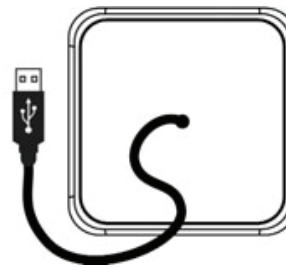
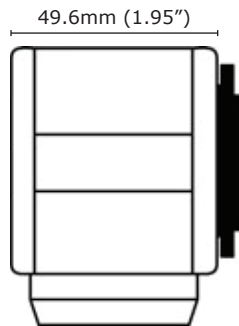
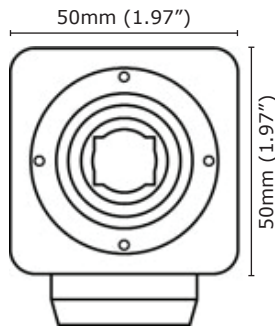
- CCD sensor provides high sensitivity & image quality
- Still image capture with streaming video
- USB 2.0 bus provides power and camera control
- Software Development Kit available

### Software

- WDM device drivers digitally signed by Microsoft under Windows XP, Vista and Windows 7 (SFT-07019-WHQL)
- DirectX/DirectShow compliant
- TWAIN compliant
- Linux driver (in development)



20K758USB-C shown  
(w/CS mount & lens)



Built in USB 2.0 cable (8 ft.)

### Technical Specifications

<b>Electrical</b>	20K75XUSB-C	21K75XUSB-C
	NTSC	PAL
Image Sensor	1/4" IL CCD	
Active Pixels (HxV)	768 x 494	752 x 582
Viewer Display	720 x 480 pixels max (USB 2.0, 30fps)	720 x 576 pixels max (USB 2.0, 30fps)
Sensitivity	<0.5 Lux	
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	Yes (horizontal/vertical)	
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 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	
Video Output	USB 2.0	
Power Supply	5VDC via USB bus	
Power Consumption	< 1.3 W	

### Mechanical

Dimensions W x H x D	50mm x 50mm x 49.6mm (without lens mount) (1.97" x 1.97" x 1.95")
Connectors	Camera to USB board: Board to board connector USB board connector: (6 pin) power & data

### Environmental

Operating Temperature	-15° C ~ 55° C (5° F ~ 131° F)
Storage Temperature	-25° C ~ 70° C (-13° F ~ 158° F)
Operating Humidity	20 up to 93%RH
Storage Humidity	Up to 98%RH
Lifetime	MTBF > 150000
Packaging	ESD safe package

### Software

Viewer (included) SFT-07019	<ul style="list-style-type: none"> <li>• WDM device drivers</li> <li>• DirectX/DirectShow compliant</li> <li>• TWAIN compliant (requires driver installation)</li> </ul>
SDK (optional) SFT-07019-SDK	Complete software development kit and support for OEMs

### 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

### Complementary Models

20K13XUSB-C	High resolution B&W USB 2.0 board camera
20K14XUSB-C	Standard resolution color USB 2.0 board camera
20K14XUSB-CDN	USB 2.0 Day/night color board camera <i>Note: Day/night optical filter (or no filter) options for maximum sensitivity in B&amp;W mode</i>
20K15XUSB-C	High resolution color USB 2.0 board camera

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All data subject to change without notice.

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