



Standard Resolution USB 2.0 Color Housed Camera



20K74XUSB NTSC
21K74XUSB PAL

CCD Sensor	1/4" IL CCD
Active Pixels (HxV)	510x492 (NTSC), 500x582 (PAL)
Viewer Display (USB 2.0, 30fps)	720 x 480 pixels max 720 x 576 pixels max 320 x 240 pixels max
(USB 1.1, 30fps)	
Sensitivity	< 0.5 Lux
Signal to Noise Ratio	> 48 dB (AGC off)
Gamma	0.45 default (1.0 via Software)
Gain	Automatic or Fixed
Synchronization	Internal

Mirror Mode	Selectable via software
Back Light Comp.	Default on (selectable via software)
Iris Control	CCD Iris default
Shutter Speed	Automatic from 1/50 to 1/100,000 14 fixed speeds via software
Power Supply	5VDC via USB bus
Power Consumption	< 1.3 W
Dimensions (WxHxD)	50mm x 50mm x 49.6mm
Installation Software SFT-04040	Camera Device Driver Viewer (GUI) User's Manual
Optional Software SDK SFT-04040-SDK	Complete software development kit and support for OEMs

USB 1.1 CCTV Camera With Auto Focus Optical Zoom 16x - (USB 2.0 Compliant)



20Z704USB NTSC
21Z704USB PAL

CCD Sensor	1/4" Sony IL
Active Pixels (HxV)	768x494 (NTSC), 752x582 (PAL)
Horizontal Resolution	>470 TVL
Sensitivity	1 lux (30 IRE) F1.4
Signal To Noise Ratio	>48 dB
Control	Keypad, software
Gamma	0.45
Gain	Automatic, manual
Synchronization	Internal
Zoom	16x optical, 128x digital
	Twain drivers available

Mirror Mode	On, off
Positive/Negative Mode	On, off
Back light Comp.	Automatic or off
Shutter Speed	Electronic, fixed from (1/50 ~ 1/10000)
Video Outputs	Composite 1Vp-p CVBS 75 Ohms Y/C (S-Video) USB 1.1, (USB 2.0 compliant)
Power Supply	Nominal 12VDC (9V ~ 15VDC)
Power Consumption	5.4W
Dimensions (WxHxD)	58.0 x 59.8 x 99mm
Interfaces	Wired remote

USB-Controlled Autofocus Zoom Camera/LED Lighting System



20Z704USB NTSC
21Z704USB PAL

CCD Sensor	1/4" Sony IL CCD
Active Pixels (HxV)	768x494 (NTSC), 752x582 (PAL)
Horizontal Resolution	>470 TVL
Sensitivity	1 lux (30 IRE) F1.4
Signal to Noise Ratio	>48 dB
Video Capture	30 fps CIF (352 x 288) 15 fps VGA (640 x 480)
Gamma	0.45
Gain	Automatic, manual
Synchronization	Internal
Zoom	16x optical, 128x digital

Mirror Mode	Selectable On, off
Pos. / Neg. Mode	Selectable On, off
Back light Comp.	Automatic or off
Shutter Speed	Electronic, fixed from (1/50 ~ 1/10000)
Video Outputs	USB 1.1, USB 2.0 compliant CVBS 1Vp-p (75 ohm) Y/C (S-Video)
Power Supply	12VDC (9V ~ 15VDC)
Power Consumption	5.4W
Dimensions (WxHxD)	Base 10.5" x 3.25" x 11.5" Telescope Pole 29" - 54" min - max Camera w/Lights 6.25" x 3.5" x 4.5"

CMOS USB 2.0 1.3 Megapixel Sensor B&W Board Camera



24B1.3XUSB-C
EIA / CCIR

CCD Sensor	1/2" CMOS 6.8 x 5.4mm array
Active Pixels (HxV)	1280 x 1024, 5.2um square pixels
Sensitivity	<1.0 Lux
Signal to Noise Ratio	45dB
Gamma	1.0
Gain	Manual
Synchronization	Internal (X-tal controlled)

Mirror Mode	Selectable via software
Shutter Speed	Fixed selectable via software
Video Outputs	USB 2.0
Power Supply	USB bus
Power Consumption	<110mA, <0.6W
Dimensions (WxHxD)	32mm x 32mm x 16mm (single board) 1.26" x 1.26" x 0.63"

02/26/08 PDS-Family-USB Cameras Rev E

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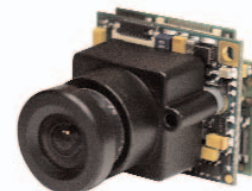


Technical Specifications - All Models

- 1/4" IL CCD
- CCD Iris
- Power Consumption <1.3W
- Power Supply 5VDC ±5%
Not Polarity Protected
- Viewer Display
USB 2.0, 30fps 720x480 pixels (NTSC)
720x576 pixels (PAL)
USB 1.1, 30fps 320x240 pixels

Camera Controls Via USB Bus Software:

- Gamma
- Gain
- Mirror Mode
- Interlaced/ Non Interlaced
- Back Light Compensation
- White Balance Mode (Color Only)
- 14 Fixed Shutter Speeds
- Contour Enhancement



20K145USB Shown
22mm x 26mm x 32mm
w/M-12 Board Mount

Technical Specifications - Model Specific

20K14XUSB

21K14XUSB Color USB 2.0 Standard Resolution

Active Pixels (HxV)	510 x 492 NTSC 500 x 582 PAL
Sensitivity	< 0.5 lux

20K14XUSB-DN

21K14XUSB-DN Color USB 2.0 Day/Night

Active Pixels (HxV)	510 x 492 NTSC 500 x 582 PAL
Sensitivity	.05 lux in night mode, .5 lux in day mode

20K15XUSB

21K15XUSB Color USB 2.0 High Resolution

Active Pixels	768 x 492 NTSC 752 x 585 PAL
Sensitivity	<1.0 lux

20K13XUSB

21K13XUSB B&W USB 2.0 High Resolution

Active Pixels	768 x 492 NTSC 752 x 585 PAL
Sensitivity	0.005 lux in near IR sensitive

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 a USB2.0 host driver from OWC.

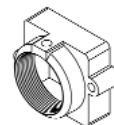
Lens Mount Options

Replace "X" in model number with desired lens mount option:

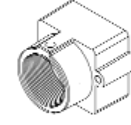
Lens mounts	8	= Metal CS
	5	= Metal M-12 board
	2	= Metal M-12 pinhole

For example: change 20K14XUSB to 20K145USB to select an M-12 Board Mount.

Metal Pinhole
M-12 Mount



Metal M-12
Board Mount



Metal CS
Board Mount



Software

Software for entire product family:

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

Full camera DSP control available for OEMs

Data Rate	480 Mb/sec. (maximum)
	Distance 5m
	W/repeater 30m
Viewer Software SFT-04040	Camera Device Driver Viewer (GUI) User's Manual
SDK (Optional) SFT-04040-SDK	Complete software development kit and support for OEMs

