



Color Housed Cameras



20D739S-1 NTSC
21D739S-1 PAL

Compact Rugged Color Camera

Image Sensor	1/3" IL CCD
Active Pixels (HxV)	768x492 (NTSC), 752x585 (PAL)
Horizontal Resolution	>480 TVL
Sensitivity	0.5 lux at 30 IRE (AGC max)
Signal to Noise Ratio	>48dB
Control	Dip switches
Gamma	0.45
Gain	Automatic
Synchronization	Internal

Back Light Comp.	Default On
White Balance	Automatic 2300 – 7500k
Iris Signal	Electronic or direct drive (auto detect)
Iris Controls	ALC Pot
Video Outputs	Composite 1Vp-p CVBS 75 ohms
Power Supply	12V – 28VAC 50/60Hz
	10.8 - 39VDC polarity independent
Power Consumption	<2.5W
Dimensions (WxHxD)	50mm x 50mm x 66.4mm



20D779 NTSC
21D779 PAL

Compact Rugged Color Camera

Image Sensor	1/3" IL CCD
Active Pixels (HxV)	768x492 (NTSC), 752x585 (PAL)
Horizontal Resolution	450 TVL (CVBS) 490 TVL (YC)
Sensitivity	0.25 lux
Signal to Noise Ratio	>46dB (AGC off)
Control	I ² C & dip switches
Gamma	0.45 or 1
Gain	Automatic/ manual/ fixed via software
Synchronization	Internal or H&V lock
Mirror Mode	On/ off

Back Light Comp.	On/ off
Contour Enhancement	Horizontal/ vertical
White Balance	Auto or push lock/ 3 fixed modes
Iris Signal	Electronic
Shutter Speed	Electronic, fixed from 1/50–1/100,000
Video Outputs	Composite 1Vp-p CVBS 75 ohms, Y/C (S-Video)
Power Supply	8-16V DC, 12V DC nominal
Power Consumption	<2.4W
Dimensions (WxHxD)	50mm x 50mm x 53mm
Connectors	12-pin Hirose/ BNC CVBS video out/ 4-pin mini din



20K74XUSB NTSC
21K74XUSB PAL

Standard Resolution USB 2.0 Color Housed Camera

Image 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
(USB 1.1, 30fps)	320 x 240 pixels max
Sensitivity	< 0.5 Lux
Signal to Noise Ratio	> 48 dB (AGC off)
Gamma	0.45 default (1.0 via Software)
Gain	Automatic/ fixed
Synchronization	Internal
Mirror Mode	Selectable via software
Control	Via USB bus
Contour Enhancement	Default on

Back Light Comp.	Default on (selectable via software)
White Balance	Auto or push lock/ 3 fixed modes
Iris Signal	CCD Iris default
Shutter Speed	Automatic from 1/50 - 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
Included Software	SFT-04040 Camera Device Driver Viewer (GUI) User's Manual
Optional Software	SFT-04040-SDK Complete software development kit & support for OEMs

B&W Housed Cameras



20D689 EIA
21D689 CCIR

Compact Rugged B&W Camera

Image Sensor	1/3" Sony IL EXview® CCD
Active Pixels (HxV)	768x492 (EIA)/ 752x582 (CCIR)
Horizontal Resolution	>560 TVL
Sensitivity	.005 lux at 50 IRE (F1.2)
Signal to Noise Ratio	>54 dB (AGC off)
Control	Via I ² C & dip switch
Gamma	0.45 (default)
Gain	Automatic/ manual
Synchronization	Internal, H&V lock / V-lock, A-sync

Back Light Comp.	On/ off
Contour Enhancement	On/ off
Shutter Speed	Electronic/ fixed from 1/50–1/100,000
Video Output	Composite 1Vp-p CVBS 75 ohms
Power Supply	8-16VDC, 12VDC nominal
Power Consumption	<1W
Dimensions (WxHxD)	50mm x 50mm x 53mm
Connectors	12-pin Hirose/ composite video out (BNC)



20D679 EIA
21D679 CCIR

Compact Rugged B&W Camera

Image Sensor	1/3" IL CCD
Active Pixels (HxV)	768x492 (EIA)/ 752x582 (CCIR)
Horizontal Resolution	>570 TVL
Sensitivity	0.05 lux at 50 IRE (F1.2)
Signal to Noise Ratio	48 dB (AGC off)
Control	15 pin D-sub/ HD connector
Gamma	1.0 fixed
Gain	Manual/ AGC (option)
Synchronization	Internal/ HV/VD/ composite
Iris Signal	Fixed

Back Light Comp.	Off
Contour Enhancement	Off
Shutter Speed	Electronic, fixed from 1/50 ~ 1/100,000
Video Output	Composite 1Vp-p CVBS 75 ohms
Power Supply	Nominal 12V (9-15VDC)
Power Consumption	<1.5W
Dimensions (WxHxD)	50mm x 50mm x 53mm
Connectors	15 pin D-sub HD/ CVBS video out (BNC), composite sync in (BNC)

12/19/08 PDS-Family Housed Cameras Rev A

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Color Housed Cameras



20D739B NTSC
21D739B PAL

High Resolution With Balanced Video (UTP) Output

Image Sensor	1/3" IL CCD
Horizontal Resolution	>480 TVL
Sensitivity	0.5 lux 30 IRE (AGC max)
Signal To Noise Ratio	>48 db
Gain	Automatic/ manual
Synchronization	Internal
Back Light Comp.	Default on
White Balance	Auto 2300 ~ 7500K
Iris Signal	Electronic (default)
	direct drive w/iris (auto detect)

Iris Control	ALC Pot
Video Output	Balanced video @ 100 Ohms Composite video (BNC for short range FOV setup)
Power Supply	12 - 28VAC 50/60Hz 10.8 - 39VDC polarity independent
Power Consumption	<3W
Lens Mount	C (includes adapter)/ CS mount
Weight	217.5 g (0.48 lbs)
Dimensions (WxHxD)	50mm x 50mm x 85mm (1.97" x 1.97" x 3.35")



20VC724TDN NTSC
21VC724TDN PAL

True Day/Night Zoom Weatherproof IR

Image Sensor	1/3" Sony super HAD CCD
Active Pixels (HxV)	768 x 494 (380K) NTSC 752 x 582 (440K) PAL
Resolution	550 TVL
Scanning Frequency (HxV)	15.734 KHz x 59.94 Hz NTSC 15.625 KHz x 50 Hz PAL
Sensitivity	Day 0.3 Lux Night 0.00 Lux (IR LED On)
White Balance	Auto
Gain	AGC on/ off
Synchronization	Internal
Back Light Comp.	On/ off

Day/ Night	Electronic (DSS)/ ICR (sensor type)
Digital Zoom	2x (on/ off)
Signal To Noise Ratio	> 50dB (AGC Off)
Camera Control	RS-485 interface (Pelco-D)
IR LED And CDS	IR LED (850nm, 42 EA) CDS sensor (1 EA)
Video Output	1Vp-p CVBS 75 ohms
Power Supply	12VDC/ 24VAC
Power Consumption	.458mA
Lens	3.8 - 9.5mm DCAI F1.2, 2x digital zoom
Weight	3.2Kg (7.1lb)
Dimensions (WxHxD)	83mm x 160.4mm (3.26" x 6.31")



20E709TDN3 NTSC
21E709TDN3 PAL

True Day/Night

Image Sensor	1/3" Sony super HAD CCD
Resolution	550 TVL
Signal System	2:1 interlace
Sensitivity	Day 0.3 lux at 30 IRE Night 0.01 lux at 30 IRE
Signal To Noise Ratio	> 46dB
Synchronization	Internal/line lock
Back Light Comp.	On/ off
Iris Signal	Video iris & DC auto iris
Iris Control	AGC pot

Day Night	Automatic
Power Indicator	LED (rear)
Video Output	1Vp-p composite, 75 ohms
Power Supply	12VDC / 24VAC
Power Consumption	<2.6W
Lens	C (includes adapter), CS
Weight	408.2g (0.90 lbs)
Dimensions (WxHxD)	50mm x 60mm x 105.5mm 1.97" x 2.4" x 4.15"



20E709W NTSC
21E709W PAL

Wide Dynamic Range

Image Sensor	1/3" Sony IL double speed CCD
Resolution	450 TVL
Sensitivity	0.3 lux at 30 IRE (F1.2)
Signal To Noise Ratio	>46dB (AGC Off)
Gain	AGC on/off
Synchronization	Internal
Dynamic Range	64dB
Wide Dynamic Range	On/off

White Balance	Auto tracking/AWB
Iris Controls	DC iris & ALC adjust
Video Output	1Vp-p CVBS 75 ohms
Power Supply	12VDC/ 24VAC
Power Consumption	<3.5W
Lens	C (includes adapter), CS
Weight	408.2 g (0.90 lb)
Dimensions (WxHxD)	50mm x 60mm x 128mm (1.97" x 2.4" x 5")



20D739 NTSC
21D739 PAL

Color Camera

Image Sensor	1/3" IL CCD
Horizontal Resolution	>480 TVL
Sensitivity	0.5 lux 30 IRE (AGC max)
Signal To Noise Ratio	>48 db
Gain	Automatic
Synchronization	Internal
Back Light Comp.	Default on
White Balance	Auto 2300 ~ 7500K

Iris Signal	Electronic (default)/ direct drive w/iris (auto detect)
Video Output	Balanced video @ 100 Ohms Composite video (BNC for short range FOV setup)
Power Supply	12 - 28VAC 50/60Hz 10.8 - 39VDC polarity independent
Power Consumption	<2.5W
Lens Mount	C (includes adapter), CS mount
Weight	217.5 g (0.48 lbs)
Dimensions (WxHxD)	50mm x 50mm x 85mm (1.97" x 1.97" x 3.35")