





High Performance Day/Night/IR Camera Color by day, B&W by night, Excellent performance with IR illuminators

Gone are the days of dark, grainy nighttime pictures of standard

color cameras. Rainbow's new line of Day/Night/IR

cameras feature the high-performance Sony

ExView CCD™ for outstanding pictures 24-

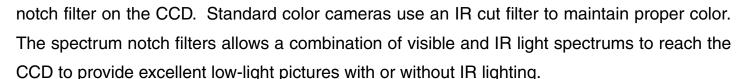
hours a day. This CCD provides the

following features: Color in bright light,

high sensitivity B&W in low light,

enhanced-IR performance when using IR illumination. This is all achieved with

no moving parts. The key is the spectrum



Features

- High Performance 1/3" Sony ExView CCD™
- · DSP Digital Signal Processing
- Color in normal lighting conditions
- High Sensitivity B&W in low light
- Sensitive to IR up to 1000nm; ideal for use with our IR illuminators, 35% better IR performance than standard B&W cameras
- Compact body design (3.3" length)
- · Electronic iris

- · Backlight compensation
- 12VDC or 24VAC operation
- Built-in isolated power supply
- 3-year warranty
- Exclusive Backfocus Mode[™] for easy, one touch backfocusing. No more filters or numerous adjustments for lens/camera setup. Push the button, focus the lens and you're done!

Note: Due to the high performance nature of the CCD, this camera will perform best under the following conditions: Outdoor use. Indoor under flouorescent lighting. Use in incandescent lighting can exhibit color changes due to IR being present in the light source.

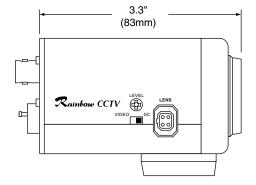


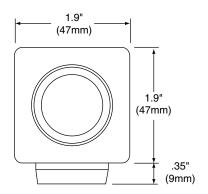
SPECIFICATIONS				
Camera Model	DNL33D	DNL46D		
Image Sensor	Interline 1/3" Sony E	Interline 1/3" Sony ExView HAD CCD™		
TV System	NTSC S	NTSC Standard		
Effective Pixels	542 (H) × 492 (V)	768 (H) × 494 (V)		
Horizontal Resolution	330 TV Lines	460 TV Lines		
Signal to Noise Ratio	More that	More than 48dB		
Minimum Illumination (@F1.2)	,	DNL33D - 0.04 lux (Normal Mode) / 0.03 lux (Hi-Gain Mode) / 0 lux with IR lighting DNL46D - 0.05 lux (Normal Mode) / 0.03 lux (Hi-Gain Mode) / 0 lux with IR lighting		
Video Output	1Vp-p, 7	1Vp-p, 75 ohm		
Sync System	Phase Adjustable Line Lock – Ra	Phase Adjustable Line Lock – Range 0~350°/Internal Selectable		
Auto-Iris Drive	DC or Video Type (4-p	DC or Video Type (4-pin square connector)		
Electronic Iris	1/60~1/100,000 sec.	1/60~1/100,000 sec On/Off Selectable		
BLC (Backlight Compensation)	Backlight Compensation – On/Off S	Backlight Compensation – On/Off Selectable (Center Zone Detection)		
AGC (Automatic Gain Control)	Normal Gain / Hi-	Normal Gain / Hi-Gain Selectable		
Auto White Balance (ATW)	Range of 2,700 °K ~ 7000 °K A	Range of 2,700 °K ~ 7000 °K Auto or Hold Mode (Push Lock)		
Color to B&W Change Point	Approx	Approx. 1 lux		
Power Requirement	12VDC or 24VAC ±10% 60Hz, 250mA Max	12VDC or 24VAC ±10% 60Hz, 250mA Max. Isolated Power Supply Built Into Camera		
Operating Condition	14° F to 122° F (-10° C to	14° F to 122° F (-10° C to 50° C), Within 85% RH		
Lens Mount	CS/C (C-mount adapter included), w	CS/C (C-mount adapter included), with Cam-type Backfocus Adjustment		
Camera Mount	1/4" – 20 (Top or E	1/4" – 20 (Top or Bottom Selectable)		
Dimensions (w/h/d)	1.9 x 1.9 x 3.3 inches (4	1.9 x 1.9 x 3.3 inches (47mm x 47mm x 83mm)		
Weight, Color	7.1 oz. (200g	7.1 oz. (200g), Off White		

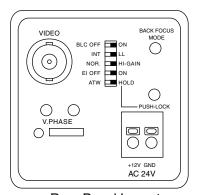
Recommended Lenses (Additional lens types are available)

Type	Focal Length	Angle of View	Manual Iris	DC Auto-Iris
Vari-Focal	2.7~12mm	83~23°	_	L212VDC4P
	3~8mm	93~36°	L308VCS	L308VDC4P
	5~50mm	54~6°	_	L550VDC4P
	6.5~39mm	41~7°	L639VCS	L639VDC4P
	8.5~51mm	32~5°	L851VCS	L851VDC4P

1 3	Pin	DC LENS	VIDEO LENS
	1	Brake –	+12V
	2	Brake +	N.C.
	3	Drive +	VIDEO
2 4	4	Drive –	GROUND







Rear Panel Layout

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INTERNATIONAL SPACE OPTICS, S.A. Address: 2495 Da Vinci, Irvine, CA 92614 USA

Phone: (800) 654-5367 (949) 260-1599 • Fax: (800) 828-2031 (949) 260-1594

E-mail: rainbow@isorainbow.com • Internet: www.isorainbow.com