

SCO-2080R 1/3" HIGH RESOLUTION WEATHERPROOF IR CAMERA

TECHNICAL SPECIFICATIONS

SECURITY SYSTEM

DIVISION – 28 ELECTRONIC SAFETY AND SECURITY

LEVEL 1 28 20 00 ELECTRONIC SURVEILLANCE

LEVEL 2 28 23 00 VIDEO SURVEILLANCE

LEVEL 3 28 23 29 VIDEO SURVEILLANCE REMOTE DEVICES AND SENSORS

PART 2 – PRODUCTS

2.01 GENERAL

- A. All equipment and materials used shall be standard components that are regularly manufactured and used in the manufacturer's system.
- B. All systems and components shall have been thoroughly tested and proven in actual use.
- C. All systems and components shall be provided with the availability of a toll-free (U.S. and Canada), 24-hour technical assistance program (TAP) from the manufacturer. The TAP shall allow for immediate technical assistance for either the dealer/installer or the end user at no charge for as long as the product is installed.

2.02 SCO-2080R 1/3" HIGH RESOLUTION WEATHERPROOF IR CAMERA

- A. The high-resolution camera shall provide 600TV lines in color and 700TV lines in black/white, with minimum illumination of 0 Lux with IR LED on, with an IR distance of 70m.
- B. The camera shall provide a built-in varifocal lens (2.8~10mm), ICR for true day/night performance, motion detection, SSNR III for digital noise reduction, and communication through RS-485 or coaxial control.
- C. The camera shall have an IP66 weatherproof housing.
- D. The camera shall operate on dual power (12V DC and 24V AC).
- E. The camera shall provide a customizable on-screen display (OSD) which shall be available in English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean in NTSC and English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese in PAL.

2.03 ELECTRICAL SPECIFICATIONS

- A. Input Voltage Dual (12V AC, 24V AC $\pm 10\%$)
- B. Power Consumption 6.8W (6.5W with IR LED on)

2.04 VIDEO SPECIFICATIONS

- A. Imaging Device 1/3" Super HAD CCD
- B. Total Pixels (horizontal x vertical)
 - 1. SCO-2080RN 811 x 508
 - 2. SCO-2080RP 795 x 596
- C. Effective Pixels (horizontal x vertical)
 - 1. SCO-2080RN 768 x 494
 - 2. SCO-2080RP 752 x 582
- D. Scanning system 2:1 Interlace
- E. Synchronization Internal, Line lock
- F. Frequency (horizontal x vertical)
 - 1. SCO-2080RN 15.734 KHz (H), 59.94Hz (V)
 - 2. SCO-2080RP 15.625 KHz (H), 50Hz (V)
- G. Horizontal Resolution
 - 1. Color 600TV Lines
 - 2. B/W 700TV Lines

H. Min. Illumination	
1. Color	0.15Lux @F1.2 (50IRE), 0.0003Lux (Sens-up, 512x)
2. B/W	0.0Lux (IR LED On)
I. S / N (Y signal)	52dB (AGC off, Weight on)
J. Video Output	CVBS: 1.0 Vp-p, 75Ω composite

2.05 LENS SPECIFICATIONS

A. Focal Length (Zoom Ratio)	2.8 ~ 10mm (V/F, 3.6x)
B. Max. Aperture Ratio	1:1.2(Wide) ~ 2.8(Tele)
C. Minimum Object Distance	0.2m (.66ft)
D. Angular Field of View	94.4°(Wide) ~ 28°(Tele) (horizontal) 69.2°(Wide) ~ 21°(Tele) (vertical)
E. Object Distance	0.2M (0.66ft)
F. Focus Control	Manual
G. Lens Type	DC auto iris

2.06 OPERATIONAL SPECIFICATIONS

A. On-Screen Display	
1. SCO-2080RN	English, Japanese, Spanish, French, Portuguese, Taiwanese, Korean
2. SCO-2080RP	English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
B. Camera Title	On, Off (displays 15 characters)
C. Day & Night	Auto (ICR), Color, B/W
D. SSDR	On, Off (level adjustable)
E. Backlight Compensation	BLC, HLC, Off
F. Dynamic Range	SSDR (Off, On)
G. Digital Noise Reduction	SSNRIII (Off, On)
H. Digital Image Stabilization	On, Off
I. Motion Detection	On, Off (8 programmable zones)
J. Privacy Masking	On, Off (12 programmable zones)
K. Sens-up (Frame Integration)	2x ~ 512x
L. Gain Control	Low, High, Off
M. White Balance	ATW, Manual, Indoor, Outdoor, AWC (1,700K°~11,000°K)
N. Electronic Shutter Speed	
1. SCO-2080RN	1/60 ~ 1/120,000
2. SCO-2080RP	1/50 ~ 1/120,000
O. Digital Zoom	On, Off (1x~16x)
P. Flip	Vertical, Horizontal
Q. Communication	RS-485, Coaxial control
R. Protocol	
1. Coax	Pelco-C (Coaxitron)
2. RS-485	Samsung-T, Samsung-E, Pelco-D, Pelco-P, Bosch, Honeywell, Vicon, Panasonic
S. IR Distance	50m (850nm IR LED: 32 each)

2.07 ENVIRONMENTAL SPECIFICATIONS

A. Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F)
B. Operating Humidity	Up to 100% RH

2.08 MECHANICAL SPECIFICATIONS

A. Dimension	
1. Length w/ Bracket Angle of 90°	Ø77x 216mm
2. Length w/ Bracket Angle of 180°	Ø77 x 284mm

B. Weight	1Kg (2.2lb)
C. Ingress Protection	IP66

2.09 CERTIFICATIONS

A. SCO-2080RN	FCC (Class A), UL/cUL Listed
B. SCO-2080RP	CE (Class A), UL/cUL Listed

2.10 WARRANTY

A. Three years, parts and labor