D-vigilant
digital your life
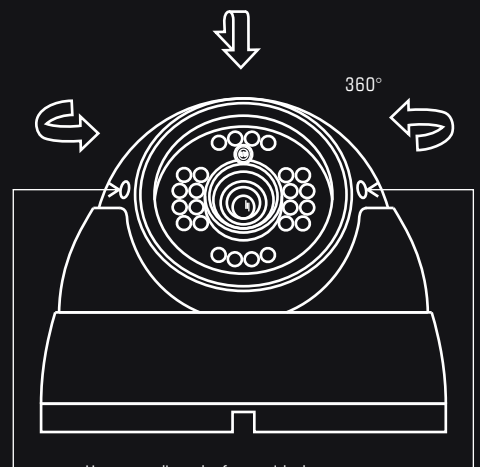
V80,V90

420TVL ~ 700TVL
V80 & V90 SERIES IR DOME CAMERA

SONY 1/3" *Super* **HAD CCD II** ™
SONY 1/3" Ex-View *Super* **HAD CCD II** ™
420TVL ~ 700TVL Resolution
3.6 mm Fixed Lens (V80)
4~9 mm Vari-Focal Lens (2.9~12 mm Lens Optional) (V90)
0 Lux with IR on
OSD Setup
WDR, SMART IR, DNR...

www.dvigilant.com

360°

User can adjust the focus with the two screws
on the housing to get a clear image.
(V90 series only)

HIGH RESOLUTION (600 & 700 TVL)

CONVENTIONAL CAMERA

HIGH RES. CAMERA

DNR (Dynamic Noise Rejection)

DNR OFF

DNR ON

SMART IR

SMART IR OFF

SMART IR ON

WDR (Wide Dynamic Range)

WDR OFF

WDR ON

BLC (Back Light Compensation)

BLC OFF

BLC ON

AGC (Auto Gain Control)

AGC OFF (Day time low light)

AGC ON (Day time low light)

TECHNICAL SPECIFICATIONS

Model	V80-SSSN-i24 V80-SSSP-i24 V80-HSSN-i24 V80-HSSP-i24	V90-SSSN-i36 V90-SSSP-i36 V90-HSSN-i36 V90-HSSP-i36	V80-HNBN-i24 V80-HNBP-i24 V80-UNBN-i24 V80-UNBP-i24	V90-HNBN-i36 V90-HNBP-i36 V90-UNBN-i36 V90-UNBP-i36	V80-VEEN-i24 V80-VEEP-i24	V90-VEEN-i36 V90-VEEP-i36
System	N = NTSC, P = PAL					
Image Sensor	SONY 1/3" Super HAD CCD II ™				SONY 1/3" Ex-View Super HAD CCD II ™	
Lens Type	V80 = 3.6 mm fixed Lens, V90 = 4~9mm Vari-Focal Lens (2.9~12 mm Lens Optional)					
Scanning System	2:1 Interlace					
Scanning Frequency (H)	15734 Hz (NTSC), 15625 Hz (PAL)					
Scanning Frequency (V)	59.94 Hz (NTSC), 50.00 Hz (PAL)					
Sync. System	Internal					
Signal System	525 Lines (NTSC), 625 Lines (PAL)					
Total Pixels	270K (NTSC), 320K (PAL) = 420TVL 410K (NTSC), 440K (PAL) = 480TVL / 600TVL				480K (NTSC), 570K (PAL) = 700TVL	
S/N Ratio	More Than 48 dB (AGC OFF)				More Than 52 dB (AGC OFF)	
Gamma	—	0.45 Default, Selectable with OSD				
Resolution	V80-S / V90-S = 420TVL, V80-H / V90-H = 480TVL, V80-U / V90-U = 600TVL, V80-V / V90-V = 700TVL					
Video Output Level	1.0 Vp-p (75 Ohms, Composite)					
Focus Mode	Manual					
Min. Illumination	0Lux with IR on					
White Balance	AUTO	ATW1 / ATW2 / MANUAL / AWC-SET Adjustable with OSD				
AGC	AUTO	AGC Level Adjustable with OSD				
BLC	AUTO	64 Windows Adjustable with OSD				
Exposure (AE/ME)	—	AUTO/MANUAL Adjustable with OSD (1/50 (1/60) to 1/120,000)				
Day/Night Switching Delay	—	1~63 Sec. Adjustable with OSD				
Mirror	—	On/Off Adjustable with OSD				
Flicker Free Mode (Shutter Fixed)	—	Shutter Fixed Mode to 1/120 (PAL) & 1/100 (NTSC)Adjustable with OSD				
Pro. Functions Access	—	Five-way Switch OSD Control				
Motion Detection	—	4 Areas Selectable and Remote Control				
Privacy Mask Function	—	ON/OFF (8 Programmable Areas)				
Lens shade compensations	—	ON/OFF Adjustable				
D-WDR (WDR)	—	Digital WDR ON / OFF			WDR ON / OFF	
Video O/P selection	—	CRT LCD and USER selectable				
Sharpness	—	Sharpness Level Adjustable with OSD				
IR LED	i24 = IR Camera, 24 LED (5mm), i36 = IR Camera, 36 LED (5mm)					
Current Consumption	V80 = 110mA / 12V DC (295mA / 12V DC with IR on) V90 = 110mA / 12V DC (360mA / 12V DC with IR on)					
Power Supply	DC 12V ± 1V					
I/O Connector	Video Output: Molded (Pig Tail) BNC Connector and 12V DC Input: DC Socket					
Operating Temp	-10 ℃ ~ +50 ℃ (14 ℉ ~ 122 ℉)					
Dimensions	V80 = 93mm(Base Diameter) X 78mm(H), V90 = 119mm(Base Diameter) X 96mm(H)					
Weight	Approx. 325g	Approx. 635g	Approx. 330g	Approx. 640g	Approx. 330g	Approx. 640g

* "Super HAD CCD II & Ex-View Super HAD CCD II" are trademark of Sony Corporation.

DIMENSIONS

Ø93

78

V80 Series

Ø119

96

V90 Series

The above mentioned technical drawings are for reference only.