TECHNICAL DATA SHEET

VRD83 Series

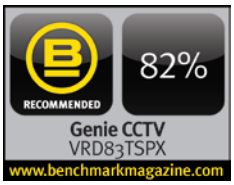
Pixim Ultra High Resolution Day/Night WDR Vandal Resistant Dome Cameras

VRD83SPX/12
VRD83TSPX

VRD83TSPXIR

690 HTVL Effective

Powered by PIXIM® SEAWOLF



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PIXIM

KEY FEATURES

- 1/3" PIXIM Seawolf CMOS Sensor
- Ultra High Resolution, 690 HTVL
- Vertical Resolution, 460+ VTVL
- Vandal Resistant Housing
- 100mm Polycarbonate Bubble
- Digital Day/Night (VRD83SPX/12)
- Mechanical IR Cut-Filter (TDN Models)
- 3D Motion Adaptive Digital Noise Reduction
- Wide Dynamic Range (WDR)
- 2.8-10.5mm DC AI VF Lens
- 18pc IR LEDs-15m Range* (VRD83TSPXIR)
- O.S.D. Menu
- Selectable Gain Control
- Selectable White Balance
- Selectable Back Light Compensation
- Privacy Masking (12 Zones)
- Motion Detection
- Built in UTP (TDN Models)
- 3-Axis Gimbal
- Improved 20mm Cable Entry & Rubber Seal
- DC 12V (DDN Model)
- Dual Voltage (TDN Models)
- IP67 Rated

ORDERING INFORMATION

VRD83SPX/12	DDN Vandal Dome, 690 HTVL, 2.8-10.5mm DC AI VFLens
VRD83TSPX	TDN Vandal Dome, 690 HTVL 2.8-10.5mm DC AI VF Lens, UTP
VRD83TSPXIR	TDN IR Vandal Dome, 690 HTVL, 2.8-10.5mm DC AI VF Lens, UTP
WB-VRD	Wall Bracket for VRD Domes
VRD-JB	Junction Box for VRD Domes

Pixim provides a number of technical improvements in picture quality for viewing areas of extreme dynamic lighting conditions. The Pixim technology overcomes over exposure problems against strong back-light situations. As each pixel acts as a camera, the picture taken by one pixel does not affect the picture quality captured by other pixels. Based on this technology, the camera delivers a very high quality, high resolution and very accurate picture. Facial & object recognition in a variety of light conditions such as doorways, windows, shadows, high-contrast environment and outdoors with strong light reflections are easily achievable with the Pixim powered cameras

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TECHNICAL SPECIFICATION

Model Number	VRD83SPX/12	VRD83TSPX	VRD83TSPXIR
Image Sensor	1/3" PIXIM Seawolf CMOS Sensor		
Horizontal Resolution (Effective)	690 HTVL (Col), 800 HTVL (Mono)		
Vertical Resoltuion	460+ VTVL		
Signal Processing	17-bit Digital Signal Processing		
Transfer Format	Progressive with Segmented Frames		
Sensitivity (50 IRE @ F1.2)	0.1 Lux (Col), 0.001 Lux (Mono)		0 Lux (with IR ON)
Lens	2.8-10.5mm DC AI Varifocal (F1.2)		
Angle of View	H : 100.8˚(Wide)~28.5˚(Tele) / V : 73.7˚(Wide)~21.4˚(Tele)		
Digital Zoom	4x Zoom		
Effective Pixels (H x V)	758 x 540		
Electronic Shutter Speed	1/50~1/100,000 Sec		
Scanning System	2:1 Interlace		
Synchronisation	INT/LL Selectable		
Frequency	Horizontal: 15.625KHz Vertical: 50.00Hz		
Video Output	1.0Vp-p~75Ω		
S/N Ratio	>50dB (AGC Off)		
Day / Night	COLOUR / AUTO / B&W		
3D-DNR	ON / OFF		
Sens-Up	AUTO / OFF (Selectable limit x2 ~ x32)		
WDR	LOW / NORMAL / MIDDLE / HIGH (Max 120db)		
O.S.D.	YES, BUILT-IN		
Gain Control	AUTO / HIGH / LOW / OFF SELECTABLE		
White Balance	ATW / AWB / INDOOR / OUTDOOR / MANUAL		
Back Light Compensation	BLC / OFF SELECTABLE		
Motion Detection	ON / OFF (4 Zones)		
Privacy Zones	ON / OFF (12 Programmable Zones)		
Flip	HORIZONTAL / VERTICAL		
UTP	NO	YES	
IR LEDs & Illumination Distance (850nm)	N/A		18pc, Up to 15m*
Construction	Aluminium Cast Dome with Polycarbonate Bubble		
IP Rating	IP67		
Operating Conditions	Temperature: -10°C ~ +50°C, Humidity: 30 ~ 90% RH		
Power Supply	DC 12V (±10%)	DC 12V / AC 24V (±10%)	
Power Consumption	160mA	360mA (DC 12V) 240mA (AC 24V)	510mA (DC 12V) 360mA (AC 24V)
Dimensions (D x H)	152 x 104.7mm		
Weight	910g		

Features and specifications are subject to change for further improvement without any notice
*Illumination distance quoted above is based on optimal conditions

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