

Marshall Electronics



IP CAMERAS & SERVERS

High Definition IP Cameras for Broadcast, High Tech Surveillance,
Industrial & Medical Applications



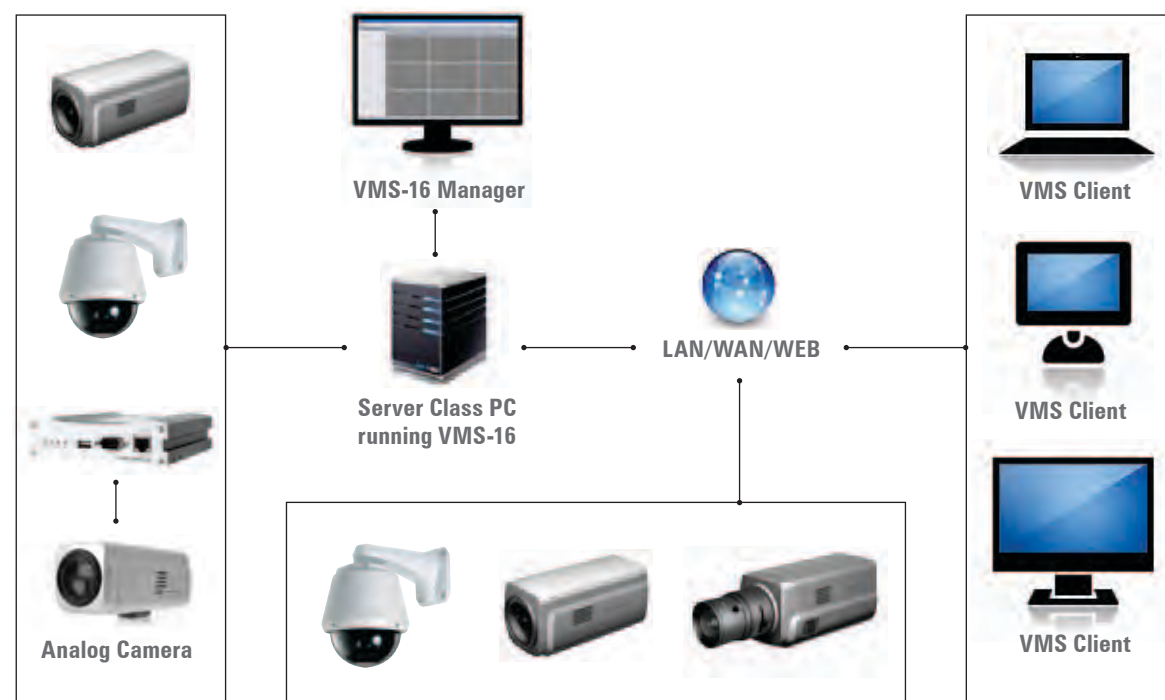
VMS-16 NETWORK VIDEO MANAGEMENT SOFTWARE

VMS-16 is a powerful IP Video Recording and monitoring software package that provides rich features and functionality. VMS-16 offers live monitoring and recording of up to 16 IP cameras and video servers with an simple-to-use interface. Various types of events and schedule-based recording functions are designed to fulfill customer needs. Relay function provides stable real-time streaming and prevents system overload.

FEATURES

- Manage up to 16 cameras
- 16CH simultaneous live monitoring
- 16CH simultaneous recording
- 16CH simultaneous search & playback
- TMAP based recording
- Streaming relay function
- Easy installation
- Supports secondary monitor window
- Two-way audio communication
- Recording based on schedule-associated events
- Various events monitoring and alarm notification
- Supports H.264 and MJPEG video compression
- Supports multi-monitoring
- Camera group monitoring
- Supports megapixel cameras
- Customized event creation by event handler

APPLICATIONS



LIVE VIEW MODE

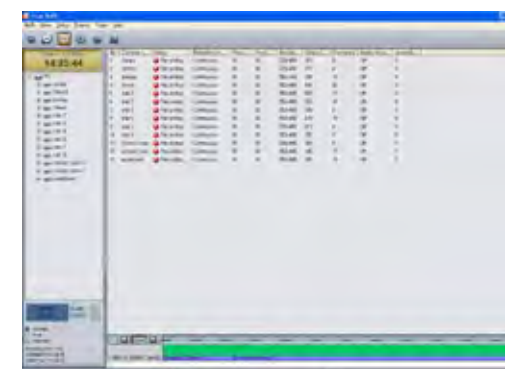
- Automatic camera IP discovery
- Automatic display unit mapping
- On-screen PTZ Control
- Decoding visible channels function
- Reading setup from cameras
- JPEG snapshot with watermarking
- Transfer of snapshot image through e-mail and FTP
- Automatic video encoding setting according to various screen modes



RECORD MODE

Recording status can be monitored in this mode. More cameras can be accommodated for recording and streaming as they do not use CPU load for decoding and display.

- Pre & Post-event recording
- Customized schedule recording
- Manual storage setup
- AVI file backup
- Copies same recording setup for many cameras



E-MAP

- Map-based monitoring
- Easy placement of cameras on a map
- Automatic video pop-up based on events
- List of all cameras on network
- Audio broadcast function
- Two-way audio communication with cameras



SEARCH & PLAYBACK

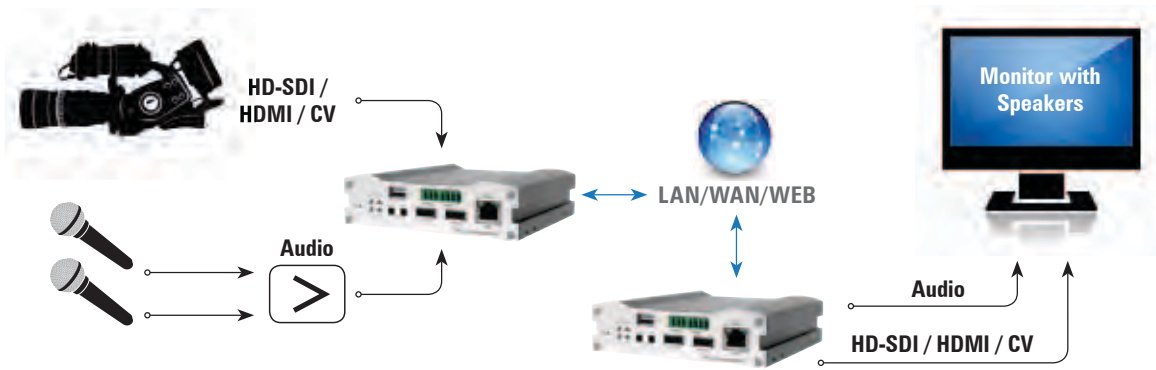
- 16CH simultaneous playback
- Remote search by events
- Bookmark function
- Holiday setup
- Easy control interface



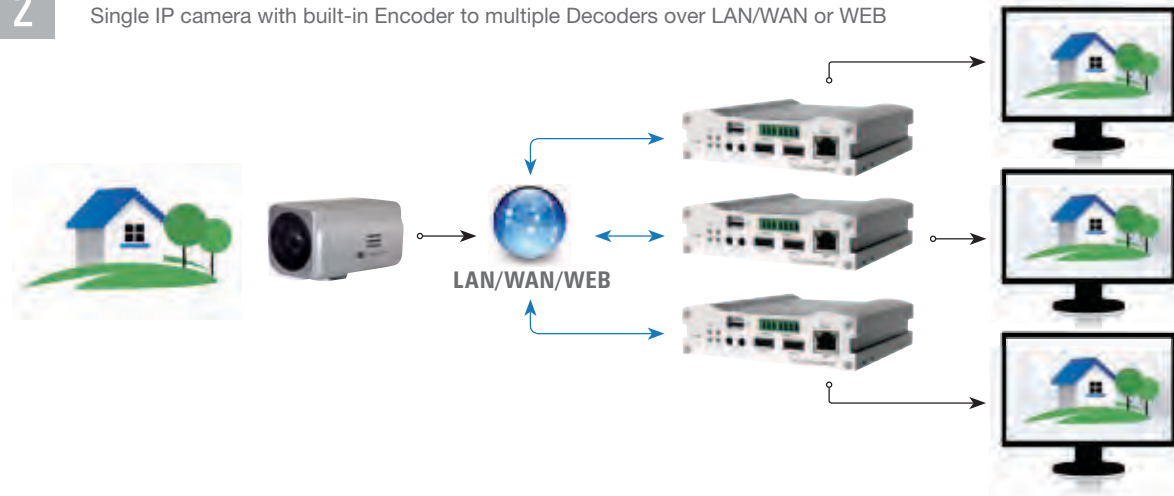
This software can be downloaded on our website: www.lcdracks.com

IP APPLICATIONS

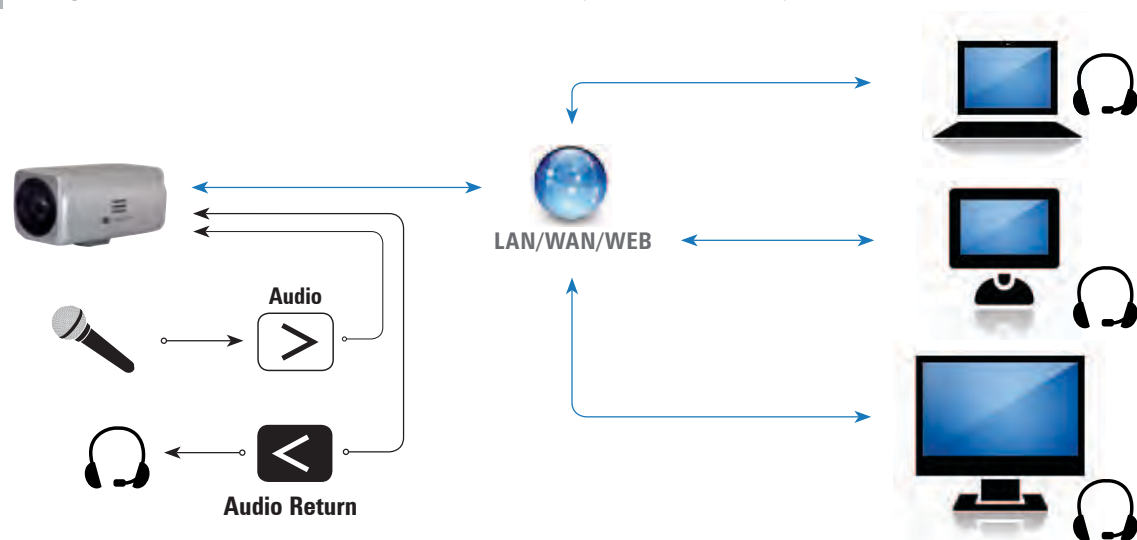
- 1 Single camera with stereo audio point-to-point Encoder (source) to Decoder (monitoring) over LAN/WAN or WEB



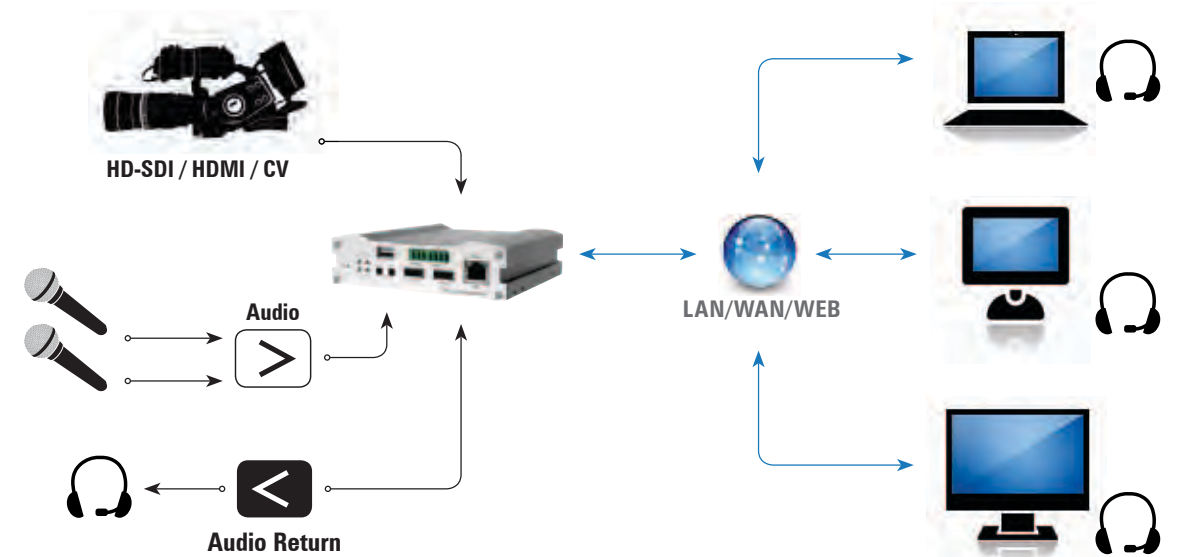
- 2 Single IP camera with built-in Encoder to multiple Decoders over LAN/WAN or WEB



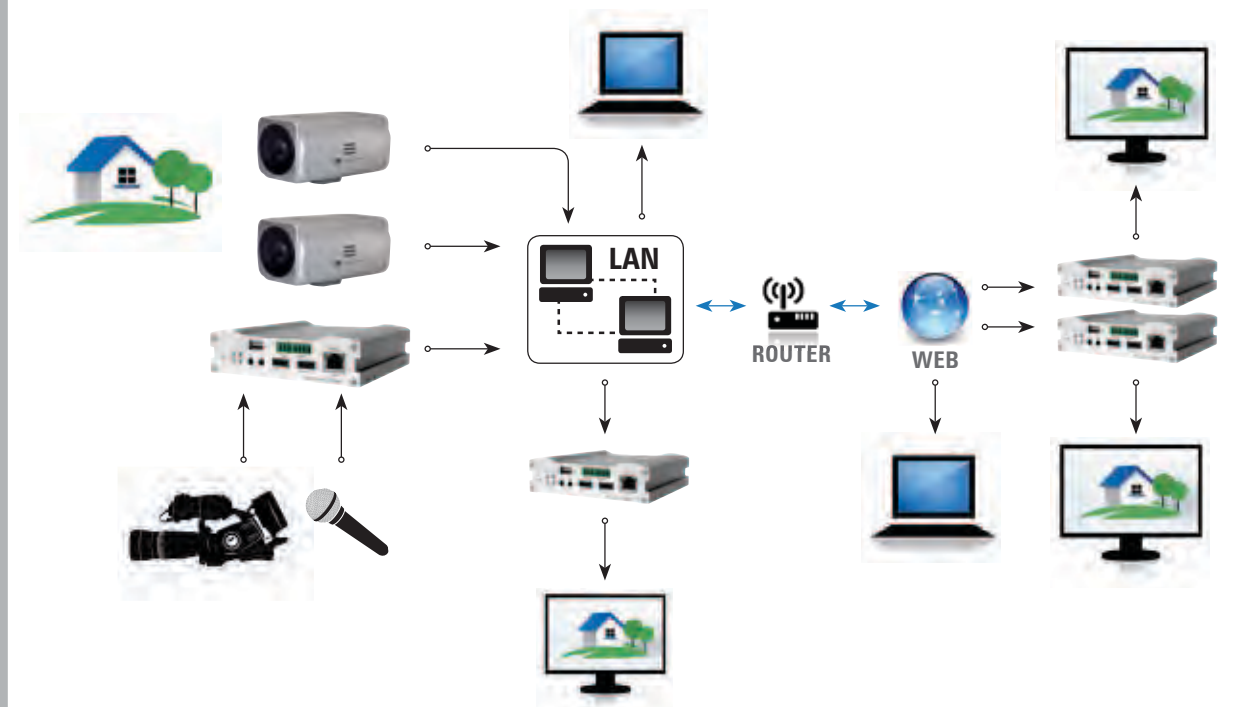
- 3 Single IP camera with built-in Encoder and Audio to multiple Decoders or computers over LAN/WAN or WEB



- 4 Single camera with stereo audio from Encoder to multiple computers or monitors with audio talkback over LAN/WAN or WEB



- 5 Multiple IP cameras and Servers interconnected on a private LAN along with several monitors and computers ported to the WEB. Any individual IP camera or server may be monitored or controlled remotely from multiple locations.



VS-102-HDI

Price: \$999

2.0 MP HIGH RESOLUTION ENCODER / DECODER WITH HDMI



Front



Back

- High Quality AV Encoder / Decoder (User Selectable)
- Full HD resolution 1080p Encoding / Decoding
- Up to 30fps @ 1920 x 1080 streaming
- H.264 & H.264 MJPEG Dual Streaming
- Two-Way Audio Communication
- Mono Codec G.711 for Security applications
- Stereo Codec AAC for Broadcast applications
- HDMI Video Input / Output
- Composite Video Input / Output
- Audio Input / Output
- Instant Recording to an optional USB drive (USB 2.0)
- Supports DDNS (Dynamic Domain Name Server)
- Built-in PoE (Power Over Ethernet: 802af)
- RS-232 control built-in
- RS-422 / 485 control built-in
- 2 Sensor Inputs
- 2 Alarm Outputs
- Watchdog for system recovery
- Integrated Video Motion Detection
- Transmission of Video Data through FTP server
- Wide Range of Video Bit Rate Control (32Kbps ~ 10Mbps)
- PSIA and ONVIF compliant

Included Accessories



Power Supply

Required for applications not utilizing PoE

VS-102-HDSI

Price: \$1,999

2.0 MP HIGH RESOLUTION ENCODER / DECODER WITH HD-SDI



Front



Back

- High Quality AV Encoder / Decoder (User Selectable)
- Full HD resolution 1080p Encoding / Decoding
- Up to 30fps @ 1920 x 1080 streaming
- H.264 & H.264 MJPEG Dual Streaming
- Two-Way Audio Communication
- Mono Codec G.711 for Security applications
- Stereo Codec AAC for Broadcast applications
- HD-SDI Video Input / Output
- HDMI Video Input / Output
- Composite Video Input / Output
- Audio Input / Output
- Instant Recording to an optional USB drive (USB 2.0)
- Supports DDNS (Dynamic Domain Name Server)
- Built-in PoE (Power Over Ethernet: 802af)
- RS-232 control built-in
- RS-422 / 485 control built-in
- 2 Sensor Inputs, 2 Alarm Outputs
- Watchdog for system recovery
- Integrated Video Motion Detection
- Transmission of Video Data through FTP server
- Wide Range of Video Bit Rate Control (32Kbps ~ 10Mbps)
- PSIA and ONVIF compliant

Included Accessories



Power Supply

Required for applications not utilizing PoE



IP Apps
see pages 4-5

1 2 4 5

SECTION		SPECIFICATIONS		SECTION		SPECIFICATIONS	
System	System Mode	Encoder, Decoder		Audio	Output	1 x Line-Out (Mini-Stereo)	
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)		Serial	Port 1	1 x RS-232 (Terminal Block)	
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP			Port 2	1 x RS-422/485 (Terminal Block)	
Video	Standards	Main Stream: H.264		Sensor/Alarm	Data Rate	2,400bps ~ 115,200bps	
		Secondary Stream: H.264 MJPEG			Sensor Input	2 x NO Contact (Terminal Block)	
	Bitrate	32 ~ 10,240 Kbps			Alarm Output	2 x NO Contact (Terminal Block)	
	Resolution	1920 x 1080/60i ~ 352 x 240/30fps, 18 resolution step			Beep	1 x Buzzer 88 dB Min	
	Frame Rate Range	1 ~ 30fps		Reset Button	1 x Factory Reset Button		
	Input 1	1 x HDMI type-A, HDMI RX		User Interface	System Status	4 x LED	
	Input 2	1 x BNC: Composite (Default)		Storage	Recording/Backup	1 x USB 2.0 Port	
	Output 1	1 x HDMI type-A, HDMI TX		Software	VS Manager/VMS-16 NVR	Live Monitoring, Recording, Search & Playback, Backup	
	Output 2	1 x BNC: Composite (Default)			Dimensions	134(W) x 125(D) x 35(H)mm	
	Audio	Motion Detection	Sensitivity Adjustment		Physical	Weight	504 g
Standards		G.711, AAC		Power		DC 12V/0.8A, PoE (Power over Ethernet): 802.3af	
Sample Rate		G.711: 8kHz / AAC: 32kHz		Power Consumption		Max 9.6W	
Data Rate		G.711: 64Kbps, AAC: 64Kbps, 128Kbps		Operating Temp.		-10°C ~ 50°C / 14°F ~ 122°F	
Input		1 x Line-In (Mini-Stereo)					

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MEGAPIXEL

PoE

POWER OVER ETHERNET

IP Apps
see pages 4-5

1 2 4 5

SECTION		SPECIFICATIONS		SECTION		SPECIFICATIONS	
System	System Mode	Encoder, Decoder		Audio	Output	1 x Line-Out (Mini-Stereo)	
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)		Serial	Port 1	1 x RS-232 (Terminal Block)	
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP			Port 2	1 x RS-422/485 (Terminal Block)	
Video	Standards	Main Stream: H.264		Sensor/ Alarm	Data Rate	2,400bps ~ 115,200bps	
		Secondary Stream: H.264 MJPEG			Sensor Input	2 x NO Contact (Terminal Block)	
	Bitrate	32 ~ 10,240 Kbps			Alarm Output	2 x NO Contact (Terminal Block)	
	Resolution	1920 x 1080/60i ~ 352 x 240/30fps, 18 resolution step			Beep	1 x Buzzer 88 dB Min	
	Frame Rate Range	1 ~ 30fps		Reset Button	1 x Factory Reset Button		
	Input 1	1 x HDMI type-A, HDMI RX		User Interface	System Status	4 x LED	
	Input 2	1 x BNC: HD-SDI		Storage	Recording/Backup	1 x USB 2.0 Port	
	Output 1	1 x HDMI type-A, HDMI TX		Software	VS Manager/ VMS-16 NVR	Live Monitoring, Recording, Search & Playback, Backup	
	Output 2	1 x BNC: HD-SDI		Physical	Dimensions	134(W) x 125(D) x 35(H)mm	
	Motion Detection	Sensitivity Adjustment			Weight	504 g	
Audio	Standards	G.711, AAC			Power	DC 12V/0.8A, PoE (Power over Ethernet): 802.3af	
	Sample Rate	G.711: 8kHz / AAC: 32kHz			Power Consumption	Max 9.6W	
	Data Rate	G.711: 64Kbps, AAC: 64Kbps, 128Kbps		Operating Temp.	-10°C ~ 50°C / 14°F ~ 122°F		
	Input	1 x Line-In (Mini-Stereo)					

VS-11

Price: \$349

H.264 ENCODER / DECODER



Front



Back

- A/V Encoder / Decoder
- Up to 30fps / 25fps @ Full D1 resolution
- H.264 & H.264 MJPEG Dual Streaming
- Encoder / Decoder Selectable
- Two-Way Audio Communication (G.711, AAC)
- Composite Video Input / Output
- Instant Recording (to optional USB 2.0)
- DDNS (Dynamic Domain Name Server)
- PoE (Power Over Ethernet): 802.3af
- Watchdog for system recovery
- Integrated Video Motion Detection
- Transmission of Video Data through FTP server
- Audio Input / Output
- RS-232 Control Built-In
- 2 Sensor Inputs
- 2 Alarm Outputs
- Wide Range of Video Bit Rate Control (32Kbps ~ 10Mbps)
- PSIA and ONVIF compliant

Included Accessories



Power Supply

Required for applications not utilizing PoE

VS-14

Price: \$599

H.264 4-CHANNEL DUAL STREAMING ENCODER



Front



Back

- Each Channel Up to 30fps / 25fps @ Full D1 resolution
- Full D1 resolution
- H.264 & H.264 MJPEG Dual Streaming
- 4 Channel Encoder
- Two-Way Audio Communication (G.711, AAC)
- 4 Composite Video Inputs
- Instant Recording (to optional USB 2.0)
- DDNS (Dynamic Domain Name Server)
- PoE (Power Over Ethernet): 802.3af
- Watchdog for system recovery
- Motion Detection
- Transmission of Video Data through FTP server
- Audio Input / Output
- RS-422 / 485 Control Built-in
- 2 Sensor Inputs
- 2 Alarm Outputs
- PSIA and ONVIF Compliant

Included Accessories



Power Supply

Required for applications not utilizing PoE



IP Apps
see pages 4-5

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IP Apps
see pages 4-5

① ② ④ ⑤

SECTION		SPECIFICATIONS	SECTION		SPECIFICATIONS
System	System Mode	Encoder, Decoder, Duplex	Serial	Port 1	1 x RS-232 (Terminal Block)
	Network Interface	Ethernet 10/100Base-T (RJ-45)		Port 2	1 x RS-422/485 (Terminal Block)
Network	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP		Data Rate	2,400bps ~ 115,200bps
	Standards	H.264 compression algorithm	Sensor/Alarm	Sensor Input	2 x NO Contact (Terminal Block)
Video	Bitrate	32 ~ 10,240 Kbps		Alarm Output	2 x NO Contact (Terminal Block)
	Resolution	NTSC: 720 x 480, 720 x 240, 352 x 480, 352 x 240 PAL: 720 x 576, 720 x 288, 352 x 576, 352 x 288		Beep	1 x Buzzer 88 dB Min
	Max Frame Rate	NTSC: Max 30fps / PAL: Max 25fps	User Interface	Reset Button	1 x Factory Reset Button
	Frame Rate Range	NTSC: 0.2 ~ 30fps / PAL: 0.2 ~ 25fps		System Status	4 x LED
	Input	1 x Composite (1 Vpp 75 Ohm, BNC)	Storage	Recording/Backup	1 x USB 2.0 Port
	Output	1 x Composite (1 Vpp 75 Ohm, BNC)		VS Manager/VMS-16 NVR	Live Monitoring, Recording, Search & Playback, Backup
	Motion Detection	Sensitivity Adjustment	Physical	Dimensions	134(W) x 125(D) x 35(H)mm
	Standards	G.711, AAC		Weight	464 g
Audio	Sample Rate	G.711: 8kHz / AAC: 32kHz		Power	DC 12V/0.5A, PoE (Power over Ethernet): 802.3af
	Data Rate	G.711: 64Kbps, AAC: 64Kbps, 128Kbps		Power Consumption	Max 7.2W
	Input	1 x Line-In (Mini-Stereo, Single Mono)		Operating Temp.	-10°C ~ 50°C / 14°F ~ 122°F
	Output	1 x Line-Out (Mini-Stereo, Single Mono)			

SECTION		SPECIFICATIONS	SECTION		SPECIFICATIONS
System	System Mode	Encoder	Serial	Port 1	1 x RS-232 (Terminal Block)
	Network Interface	Ethernet 10/100Base-T (RJ-45)		Port 2	1 x RS-422/485 (Terminal Block)
Network	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP		Data Rate	2,400bps ~ 115,200bps
	Standards	Main Stream: H.264 Secondary Stream: H.264 MJPEG	Sensor/Alarm	Sensor Input	4 x NO Contact (Terminal Block)
Video	Bitrate	32 ~ 2000 Kbps (Per Channel)		Alarm Output	4 x NO Contact (Terminal Block)
	Resolution	NTSC: 720 x 480, 720 x 240, 352 x 480, 352 x 240 PAL: 720 x 576, 720 x 288, 352 x 576, 352 x 288		Beep	1 x Buzzer 88 dB Min
	Max Frame Rate	NTSC: Max 30fps / PAL: Max 25fps	User Interface	Reset Button	1 x Factory Reset Button
	Frame Rate Range	NTSC: 0.2 ~ 30fps / PAL: 0.2 ~ 25fps		System Status	4 x LED
	Input	4 x Composite (1 Vpp 75 Ohm, BNC)	Storage	Recording/Backup	1 x USB 2.0 Port
	Motion Detection	Sensitivity Adjustment		VS Manager/VMS-16 NVR	Live Monitoring, Recording, Search & Playback, Backup
Audio	Standards	G.711, AAC	Physical	Dimension	134(W) x 125(D) x 35(H)mm
	Sample Rate	G.711: 8kHz / AAC: 32kHz		Weight	486 g
	Bitrate	G.711: 64Kbps / AAC: 64Kbps, 128Kbps		Power Source	DC 12V/0.5A, PoE (Power over Ethernet): 802.3af
	Input	1 x Line-In (Mini-Stereo Connector w. 2 Channels Mono) 1 x Line-Out (Mini-Stereo Connector w. 2 Channels Mono)		Power Consumption	Max 6W
	Output	1 x Line-Out (Mini-Stereo, Single Mono)		Operating Temp.	-10°C ~ 50°C / 14°F ~ 122°F

VS-570 / VS-570-HDSDI

Price: \$2,999 / \$3,999

2.0 MP 10X VANDAL-PROOF IP SPEED DOME WITH COMPOSITE / HD-SDI



* Shown with optional mounting brackets



- 2 MP 1/2.5" 1920 x 1080 CMOS Sensor
- Full HD resolution 1080p30 / 1080i60 Video Encoding
- 10x Optical Zoom Lens Built-in (F1.8 ~ F2.1, f=5.1mm ~ 51mm)
- 120x Zoom (10x Optical Zoom, 12x Digital Zoom)
- Up to 30fps @ 1920 x 1080 live streaming
- H.264 & H.264 MJPEG Dual Streaming
- Simultaneous HD-SDI Video Output (VS-570-HDSDI)
- Two-Way Audio Communication (G.711/AAC)
- True Day & Night (Motorized IR Cut Filter)
- BLC (Back Light Compensation)
- Vandal-Proof, IP67-Rated Dome
- Fast & Smooth Pan Motion with 360° Continues Rotation
- 128 Presets, 8 Swings, 4 Patterns, 8 Groups
- RS-485 Communication, Pelco D or Pelco P Protocol
- Integrated Video Motion Detection
- 2 Motion Sensor Inputs & 2 Alarm Outputs
- Various Protocols: TCP/IP, Multicast, UDP, HTTP, SMTP, FTP, DHCP, DNS, Dynamic DNS, RTP, RTSP, SNMP
- PSIA and ONVIF compliant
- SDK & API Available

Optional Accessories



VS-B570-W
Wall Mount Bracket
(For Indoor and Outdoor use)
Price: \$170.00



VS-B570-C
Ceiling Mount Bracket
(For Indoor and Outdoor use)
Price: \$150.00



V-PS12-5V
Power Supply
Required for applications not utilizing PoE
Price: \$89.00



IP Apps
see pages 4-5



SECTION		SPECIFICATIONS		SECTION		SPECIFICATIONS			
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)		Video	Standards	Main Stream: H.264			
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP				Secondary Stream: H.264 MJPEG			
Camera	Image Sensor	2MP 1/2.5" CMOS Image Sensor			Output	Output	1 x Composite (BNC type) or 1 x HD-SDI (BNC type) (Choose one option)		
	Focal Length	F1.8 ~ F2.1, f=5.1mm~51mm					Resolution	1920 x 1080 ~ 352 x 240, 18 resolution steps	
	Zoom	10x Optical Zoom				Max Frame Rate		H.264/MJPEG: 30fps @ all resolutions	
	Focus Position	∞ ~ 1 cm						Bitrate	32 ~ 10,240 Kbps
	Angle of View	Horizontal: 50(Wide) ~ 5.4(Tele)		Algorithm		G.711/AAC			
	Min. Illuminance	1.0 Lux (B/W), F1.8 with 50 IRE			Audio	Input	1 x Line-In (RCA, Mono)		
	S/N Ratio	50 dB or more		Output			1 x Line-Out (RCA, Mono)		
	AE Mode	Auto, Manual, Bright, Shutter Priority, Iris Priority, Spot				Sample Rate	G.711: 8kHz, AAC: 32kHz		
	IRIS Control	Auto / Manual (F1.8 ~ F26, Close)		Bitrate			G.711: 64Kbps, AAC: 64Kbps, 128Kbps		
	Gain Control	Auto / Manual (-3 ~ 18 dB)					Serial Port	Port	RS-485 for PTZ control
	Shutter Control	Auto / Manual (1/2 ~ 1/10,000 sec)		Protocol	Pelco-D, Pelco-P				
	White Balance	Auto / Manual (Red, Blue Gain Adjustable)			Sensor/Alarm	Sensor Input	2 x Photo-Coupler Input		
	DSS Limit	1/60 ~ 1/2 or 1/50 ~ 1/2		Alarm Output			2 x Relay Output (Normal Open)		
	Day & Night	Auto / Day / Night (ICR)					Reset Button	Factory Reset Button	
	BLC	Auto / Manual		Software	VS Manager /VMS-16	Live Monitoring, Recording, Search & Playback, Backup			
	WDR	On / Off				Mount Bracket	Wall Mount or Ceiling Mount (Option)		
Aperture Control	16 steps		Dimensions	Dome: Ø150mm / Ø5.9"					
Pan/Tilt	Range	Pan: 360° (Endless) / Tilt: 90°		Weight	Housing: 185(Ø) x 193.5(H)mm / 7.3"(Ø) x 7.6"(H)				
		Preset: 360°/sec			Material	Approx. 3.8 kg / 8.4 lbs (Wall) Approx.3.2 kg / 7.0 lbs (Ceiling)			
	Pan/Tilt Speed	Manual: 0.05° ~ 360°/sec (Zoom Proportional)		Power		DC 12V/3A			
		Swing: 1.4°~180°/sec			Power Consumption	Max 24W			
	Preset	128 Presets		Waterproof		IP67			
	Pattern	4 Patterns (Approx. 5 Minutes for Each Pattern)			Fan	Always ON			
	Swing	8 Swings		Operating Temp.		-30°C ~ 60°C / 34°F ~ 140°F			
	Group	8 Groups (MAX. 20 Entries for Each Group)							
Other Functions	Auto Flip, Auto Parking, Power-up Action								

VS-571 / VS-571-HDSDI

Price: \$3,799 / \$5,599

2.0 MP 20X VANDAL-PROOF IP SPEED DOME WITH COMPOSITE / HD-SDI



* Shown with optional mounting brackets

- 2 MP 1/2.5" 1920 x 1080 CMOS Sensor
- Full HD resolution 1080p30 / 1080i60 Video Encoding
- 20x Optical Zoom Lens Built-in (F1.8 ~ F2.1, f=5.1mm ~ 51mm)
- 240x Zoom (20x Optical Zoom, 12x Digital Zoom)
- Up to 30fps @ 1920 x 1080 live streaming
- H.264 & H.264 MJPEG Dual Streaming
- Simultaneous HD-SDI Video Output (VS-571-HDSDI)
- Two-Way Audio Communication (G.711/AAC)
- True Day & Night (Motorized IR Cut Filter)
- BLC (Back Light Compensation)
- Vandal-Proof, IP67-Rated Dome
- Fast & Smooth Pan Motion with 360° Continues Rotation
- 128 Presets, 8 Swings, 4 Patterns, 8 Groups
- RS-485 Communication, Pelco D or Pelco P Protocol
- Integrated Video Motion Detection
- 2 Motion Sensor Inputs & 2 Alarm Outputs
- Various Protocols: TCP/IP, Multicast, UDP, HTTP, SMTP, FTP, DHCP, DNS, Dynamic DNS, RTP, RTSP, SNMP
- PSIA and ONVIF compliant
- SDK & API Available

Optional Accessories



VS-B570-W
Wall Mount Bracket
(For Indoor and Outdoor use)
Price: \$170.00



VS-B570-C
Ceiling Mount Bracket
(For Indoor and Outdoor use)
Price: \$150.00



V-PS12-5V
Power Supply
Required for applications not utilizing PoE
Price: \$89.00



IP Apps
see pages 4-5



SECTION		SPECIFICATIONS		SECTION		SPECIFICATIONS	
Camera	Image Sensor	1/2.5" CMOS Image Sensor		PTZ Control	Panning Range	360°	
	Min Illumination	0.5 Lux (Color) / 0.02 Lux (B/W), F1.6, 50 IRE, 1/4s, 28 dB			Tilting Range	90°	
Image Enhancement	Gain Control	Auto / Manual (0 ~ 30 dB)			Preset	360°/sec	
	White Balance	Auto / Manual (Red, Blue Gain Adjustable)			Manual	0.05° ~ 360°/sec (Zoom Proportional)	
	True Day & Night (TDN)	0			Swing	1.4°~180°/sec	
	Backlight Compensation	WDR, BLC			Preset Positions	111	
	Flickerless	50Hz, 60Hz			Pattern	4 (Approx. 5 Minutes for Each Pattern)	
	On Screen Display	English			Swing	8	
	Motion Detection	0			Group	8 (Max. 20 Entries for Each Group)	
Lens	Privacy Masking	4 x Zones			PTZ Protocol	Pelco-D, Pelco-P	
	Lens	Lens Mount	C/CS Mount		Auto Parking	0	
		Digital Zoom	20x Optical Zoom		Network Interface	Ethernet 10/100Base-T (RJ-45)	
		Focal Length	F1.6 ~ F2.8, f=4.7mm~84.6mm		Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP	
		Angle of View	Horizontal: 55.2(Wide) ~ 3.2(Tele)		Integration Interface	API (Application Programming Interface)	SDK, PSIA, ONVIF
Digital Shutter Speed(DSS)	1/4~1/10,000 sec		Serial Connectors	1 x RS-485			
Video	Video Compression	H.264 MP Level 4		Sensor Input		2 x Photo-Coupler Input	
	Frame Rate	1~30fps		Alarm Output	2 x Relay Output (Normal Open)		
	Bitrate	32 ~ 10,240 Kbps		Software	VS Manager/VMS-16 NVR	Live Monitoring, Recording, Search & Playback, Backup	
	Resolution	1920 x 1080			Waterproof	IP67	
	Video Streaming	Primary: H.264, Secondary: H.264, MJPEG		Power Supply	DC 12V/3A		
	Video Output	1 x Composite (BNC type) or 1 x HD-SDI (BNC type) (Choose one option)		Power Consumption	Max 21.6W / PoE+		
	Backup	FTP		Operating Temp.	-40°C ~ 50°C / -40°F ~ 122°F		
Audio	Audio Compression	G.711, AAC-LC		General	Dimensions	Dome: Ø150mm / Ø5.9"	
	Audio Sampling Rate	G.711: 8kHz, AAC: 32kHz			Weight	Wall: Approx. 3.8 kg / 8.4 lbs	
	Audio Input/Output	1 x Line-In (RCA), 1 x Line-Out (RCA)				Ceiling: Approx. 3.2 kg / 7.0 lbs	

VS-572 / VS-572-HDSDI

Price: \$2,999 / \$3,999

1.3 MP 18X VANDAL-PROOF IP SPEED DOME WITH COMPOSITE / HD-SDI



* Shown with optional mounting brackets



- 1.3 MP 1/3" 1280 x 960 progressive scan CCD
- HD resolution 720p30 Video Encoding
- 18x Optical Zoom Lens Built-in (F1.6 ~ F2.8, f=4.7mm ~ 84.6mm)
- Up to 1280 x 720 @ 30fps (1280 x 960 @ 20fps)
- H.264 & H.264 MJPEG Dual Streaming
- Simultaneous HD-SDI Video Output (VS-572-HDSDI)
- Two-Way Audio Communication (G.711/AAC)
- True Day & Night (Motorized IR Cut Filter)
- WDR (Wide Dynamic Range)
- Vandal-Proof, IP67-Rated Dome
- Fast & Smooth Pan Motion with 360° Continues Rotation
- 98 Presets, 8 Swings, 4 Patterns, 8 Groups
- RS-485 Communication, Pelco D or Pelco P Protocol
- Integrated Video Motion Detection
- 2 Motion Sensor Inputs & 2 Alarm Outputs
- Various Protocols: TCP/IP, Multicast, UDP, HTTP, SMTP, FTP, DHCP, DNS, Dynamic DNS, RTP, RTSP, SNMP
- PSIA and ONVIF compliant
- SDK & API Available

Optional Accessories



VS-B570-W
Wall Mount Bracket
(For Indoor and Outdoor use)
Price: \$170.00



VS-B570-C
Ceiling Mount Bracket
(For Indoor and Outdoor use)
Price: \$150.00



V-PS12-5V
Power Supply
Required for applications not utilizing PoE
Price: \$89.00

1.3 MEGAPIXEL

18x OPTICAL ZOOM

PTZ PAN / TILT / ZOOM

VANDAL-PROOF

IP67 INGRESS PROTECTION

IP Apps see pages 4-5

1 2 3 4 5

FREE 16-Channel Video Management Software INCLUDED

SECTION			SPECIFICATIONS			SECTION			SPECIFICATIONS		
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)			Video	Standards	Main Stream: H.264				
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP					Secondary Stream: H.264 MJPEG				
Camera	Image Sensor	1/3" Solid State Progressive CCD Scan				Output	1 x Composite (BNC type) or 1 x HD-SDI (BNC type) (Choose one option)				
	Focal Length	F1.6 ~ F2.8, f=4.7mm~84.6mm					Resolution	1280 x 960 ~ 352 x 240, 13 resolution steps			
	Zoom	18x Optical Zoom				Max Frame Rate		H.264 MJPEG: 20fps @ 1280 x 960, 30fps @ 1280 x 720 ~ 352 x 240			
	Focus Length	∞ ~ 1.0m(Tele) ~ 0.01m(Wide)			Bitrate		32 ~ 10,240 Kbps				
	Angle of View	Horizontal: 55.2(Wide) ~ 3.2(Tele)				Audio	Algorithm	G.711/AAC			
	Min. Illuminance	0.5 Lux (Color) / 0.02 Lux (B/W), F1.6, 50 IRE, 1/4s, 28 dB			Input		1 x Line-In (RCA, Mono)				
	AE Mode	AE / AER / AE+ / AER+ / Shutter / Exposure / AGC			Output		1 x Line-Out (RCA, Mono)				
	S/N Ratio	50 dB or more			Sample Rate		G.711: 8kHz, AAC: 32kHz				
	IRIS Control	Auto / Manual (F1.6 ~ F34)			Bitrate		G.711: 64Kbps, AAC: 64Kbps, 128Kbps				
	Gain Control	Auto / Manual (0 ~ 30 dB)			Serial Port	Port	RS-485 for PTZ control				
	Shutter Control	Auto / Manual (1/4 ~ 1/10,000 sec)				Protocol	Pelco-D, Pelco-P				
	White Balance	Auto / Manual (Red, Blue Gain Adjustable)			Sensor/Alarm	Sensor Input	2 x Photo-Coupler Input				
	DSS Limit	2x / 4x / 8x Fields				Alarm Output	2 x Relay Output (Normal Open)				
	Day & Night (ICR)	Auto / Manual (ICR)				Reset Button	Factory Reset Button				
	BLC	Auto / Manual, 256 Levels			Software	True NVR/CMS	Live Monitoring, Recording, Search & Playback, Backup				
	WDR	On / Off				Mount Bracket	Wall Mount or Ceiling Mount (Option)				
Privacy Mask	4 Masks			Physical	Dimensions		Dome: Ø150mm / Ø5.9"				
Range	Pan: 360° (Endless) / Tilt: 90°					Weight	Housing: 185(Ø) x 193.5(H)mm / 7.3"(Ø) x 7.6"(H)				
Pan/Tilt Speed	Preset: 360° /sec				Material		Approx. 3.8 kg/8.4 lbs (Wall) Approx. 3.2 kg/7.0 lbs (Ceiling)				
	Manual: 0.05° ~ 360° /sec (Zoom Proportional)					Power	Dome: Polycarbonate / Housing: Aluminum				
Preset	Swing: 1.4°~180° /sec				Power Consumption		DC 12V/3A				
	98 Presets					Waterproof	Max 36W				
Pattern	4 Patterns (Approx. 5 Minutes for Each Pattern)				Fan		IP67				
Swing	8 Swings					Operating Temp.	Always ON				
Group	8 Groups (MAX. 20 Entries for Each Group)				-30°C ~ 60°C / -34°F ~ 140°F						
Other Functions	Auto Flip, Freeze on Preset, Auto Parking, Power-up Action										

VS-370-X10

Price: \$1,129

D1 10X VANDAL-PROOF IP SPEED DOME



* Shown with optional mounting brackets



- 1/4" Interline transfer CCD (811 x 508)
- D1 Video resolution
- 10x Optical Zoom (F1.8, f=3.8-38mm)
- 100x Zoom Control (Optical 10x, Digital 10x)
- H.264 & H.264 MJPEG Dual Streaming
- Two-Way Audio Communication (G.711/AAC)
- True Day & Night (Motorized IR Cut Filter)
- WDR (Wide Dynamic Range)
- Vandal-Proof, IP66-Rated Dome
- Built-in Fan / Heater
- Fast & Smooth Pan Motion with 360° Continues Rotation
- Low Noise & Vibration
- Lightning Speed (Max 60°/sec) & smooth manual speed (Min. 0.05°/sec)
- 128 Presets, 8 Swings, 4 Patterns, 8 Groups
- RS-485 Communication, Pelco D or Pelco P Protocol
- Integrated Video Motion Detection
- Motion Sensor Input & Alarm Output
- Various Protocols: TCP/IP, Multicast, UDP, HTTP, SMTP, FTP, DHCP, DNS, Dynamic DNS, RTP, RTSP, SNMP
- PSIA and ONVIF compliant
- SDK & API Available

Optional Accessories



VS-B370-10W
Wall Mount Bracket
(For Indoor and Outdoor use)
Price: \$125.00



VS-B370-10C
Ceiling Mount Bracket
(For Indoor and Outdoor use)
Price: \$125.00



V-PS12-5V
Power Supply
Required for applications not utilizing PoE
Price: \$89.00

D1 RESOLUTION

10x OPTICAL ZOOM

PTZ PAN / TILT / ZOOM

VANDAL-PROOF

IP67 INGRESS PROTECTION

IP Apps see pages 4-5

1 2 3 4 5

FREE 16-Channel Video Management Software INCLUDED

SECTION		SPECIFICATIONS		SECTION		SPECIFICATIONS					
Camera	Signal Format	NTSC / PAL		Network	Network Interface	Ethernet 10/100Base-T (RJ-45)					
	Image Sensor	1/4" Interline Transfer CCD			Pan/Tilt	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP,HTTP, SNMP, RTP, RTSP				
	Total Pixel	410K Pixels [811(H) x 508(V)]	470K Pixels [795(H) x 596(V)]			Range	Pan/Tilt Speed	Pan: 360° (Endless) Tilt: 180° (Auto-Flip On), 95° (Auto-Flip Off)			
	Effective Pixel	380K Pixels [768(H) x 494(V)]	440K Pixels [752(H) x 582(V)]					Preset: 360°/ sec Manual: 0.05°~ 360°/ sec (Zoom Proportional) Swing: 1°~ 180°/ sec			
	H. Resolution	500 TV Lines(Color), 570 TV Lines(B/W)		Preset				Other functions	128 x Presets with Labels / Independent Preset Characteristic Setup		
	S/N Ratio	50 dB (AGC Off)			Sample Rate				Input	Image Auto flip, Auto Parking, Power-up Action	
	Zoom	10x Optical Zoom and 10x Digital Zoom				Output	Bitrate			G711: 8kHz, ACC: 32kHz	
	Focal Length	F1.8, f=3.8 ~ 38mm								Audio	VS Manager/ VMS-16 NVR
	Min. Illuminance	0.7 Lux (Color) / 0.02 Lux (B/W) @ 50 IRE		Software				Communication			
	Day & Night	Auto / Day / Night (IR Cut Filter)			Physical				Privacy Zone		
	Focus	Auto / Manual / Semi-Auto				Protocol	OSD				
	Iris	Auto / Manual								Power	Power Consumption
	Shutter Speed	128x ~ 1/120,000 sec		Dimensions				Weight			
	AGC	Normal / High / Off			Operating Temp.						
	White Balance	Auto / Manual (Red & Blue Gain Adjustable)				English On / Off					
	BLC	Low / Middle / High / Off				DC Type: DC 12V / 2.5 A					
Flickerless	Selectable		Max 25W								
Video	Standards	H.264 Compression algorithm		Physical	Power Consumption	Dome: ø115mm / 4.5"					
		Primary: H.264, Secondary: H.264 MJPEG				Housing: 168(ø) x 160.5(H)mm / 6.6" (ø) x 6.3"(H)					
	Bitrate	32 ~ 10,240 Kbps				Weight	Operating Temp.	Approx. 2.2 kg / 4.8 lbs			
	Resolution	NTSC: 720 x 480, 720 x 240, 352 x 480, 352 x 240						0°C ~ 40°C / 32°F ~ 104°F			
		PAL: 720 x 576, 720 x 288, 352 x 576, 352 x 288									
	Max Frame Rate	NTSC: Max 30fps / PAL: Max 25fps									
Frame Rate Range	NTSC: 0.2 ~ 30fps / PAL: 0.2 ~ 25fps										

VS-370-X27 / X37

D1 27X / 37X IP SPEED DOME

Price: \$1,679 / \$2,099



* Shown with optional mounting brackets



- 1/4" Interline transfer CCD (811 x 508)
- D1 Video resolution
- 27x Optical Zoom (F1.6-2.6, f=3.5-94.5mm) (VS-330-X27)
- 324x Zoom Control (Optical 27x, Digital 12x) (VS-330-X27)
- 37x Optical Zoom (F1.6-3.9, f=3.5-129.5mm) (VS-330-X37)
- 444x Zoom Control (Optical 237x, Digital 12x) (VS-330-X37)
- H.264 & H.264 MJPEG Dual Streaming
- Two-Way Audio Communication (G.711/AAC)
- True Day & Night (Motorized IR Cut Filter)
- WDR (Wide Dynamic Range)
- Vandal-Proof, IP66-Rated Dome
- Built-in Fan / Heater
- Fast & Smooth Pan Motion with 360° Continues Rotation
- Low Noise & Vibration
- Lightning Speed (Max 60° /sec) & smooth manual speed (Min. 0.05° /sec)
- 128 Presets, 8 Swings, 4 Patterns, 8 Groups
- RS-485 Communication, Pelco D or Pelco P Protocol
- Integrated Video Motion Detection
- Motion Sensor Input & Alarm Output
- Various Protocols: TCP/IP, Multicast, UDP, HTTP, SMTP, FTP, DHCP, DNS, Dynamic DNS, RTP, RTSP, SNMP
- PSIA and ONVIF compliant
- SDK & API Available

Optional Accessories



VS-B570-W
Wall Mount Bracket
(For Indoor and Outdoor use)
Price: \$170.00



VS-B570-C
Ceiling Mount Bracket
(For Indoor and Outdoor use)
Price: \$150.00



V-PS12-5V
Power Supply
Required for applications not utilizing PoE
Price: \$89.00

D1RESOLUTION

27x37xOPTICAL ZOOM

PTZPAN / TILT / ZOOM

VANDAL-PROOF

IP66INGRESS PROTECTION

IP Appssee pages 4-5

12345

FREE

16-Channel Video Management Software INCLUDED

SECTION		SPECIFICATIONS		SECTION		SPECIFICATIONS		
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)		Video	Standards	Main Stream: H.264 Secondary Stream: H.264 MJPEG		
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP				Output	1 x Composite (BNC type) or 1 x HD-SDI (BNC type) (Choose one option)	
Camera	Image Sensor	1/4" Solid State Progressive CCD Scan			Resolution		1280 x 960 ~ 352 x 240, 13 resolution steps	
	Focal Length	F1.6 ~ F2.8 , f=4.7mm~84.6mm				Max Frame Rate	H.264 MJPEG: 20fps @ 1280 x 960, 30fps @ 1280 x 720 ~ 352 x 240	
	Zoom	18x Optical Zoom					Bitrate	32 ~ 10,240 Kbps
	Focus Length	∞ ~ 1.0m(Tele) ~ 0.01m(Wide)		Audio		Algorithm		G.711/AAC
	Angle of View	Horizontal: 55.2(Wide) ~ 3.2(Tele)			Input	1 x Line-In (Mini-stereo, Single Mono)		
	Min. Illuminance	0.5 Lux (Color) / 0.02 Lux (B/W), F1.6, 50 IRE, 1/4s, 28 dB			Output	1 x Line-Out (Mini-stereo, Single Mono)		
	AE Mode	AE / AER / AE+ / AER+ / Shutter / Exposure / AGC			Sample Rate	G.711: 8kHz, AAC: 32kHz		
	S/N Ratio	50 dB or more				Bitrate	G.711: 64Kbps, AAC: 64Kbps, 128Kbps	
	IRIS Control	Auto / Manual (F1.6 ~ F34)		Serial Port	Port		RS-485 for PTZ control	
	Gain Control	Auto / Manual (0 ~ 30 dB)			Protocol	Pelco-D, Pelco-P		
	Shutter Control	Auto / Manual (1/4 ~ 1/10,000 sec)		Sensor/Alarm		Sensor Input	2 x Photo-Coupler Input	
	White Balance	Auto / Manual (Red, Blue Gain Adjustable)			Alarm Output	2 x Relay Output (Normal Open)		
	DSS Limit	2x / 4x/ 8x Fields			Reset Button	Factory Reset Button		
	Day & Night (ICR)	Auto / Manual (ICR)		Software	VS Manager/ VMS-16 NVR	Live Monitoring, Recording, Search & Playback, Backup		
	BLC	Auto / Manual, 256 Levels			Physical	Mount Bracket	Wall Mount or Ceiling Mount (Option)	
	WDR	On / Off		Dimensions		Dome: Ø150mm / Ø5.9" Housing: 185(Ø) x 193.5(H)mm / 7.3"(Ø) x 7.6"(H)		
Privacy Mask	4 Masks		Weight			Approx. 3.8 kg/8.4 lbs (Wall) Approx. 3.2 kg/7.0 lbs (Ceiling)		
Pan/Tilt	Range	Pan: 360° (Endless) / Tilt: 90° Preset: 360° /sec		Material		Dome: Polycarbonate / Housing: Aluminum		
	Pan/Tilt Speed	Manual: 0.05° ~ 360° /sec (Zoom Proportional) Swing: 1.4°~180° /sec				Power	DC 12V/3A	
	Preset	98 Presets		Power Consumption			Max 36W	
	Pattern	4 Patterns (Approx. 5 Minutes for Each Pattern)				Waterproof	IP67	
	Swing	8 Swings		Fan			Always ON	
	Group	8 Groups (MAX. 20 Entries for Each Group)			Operating Temp.	-30°C ~ 60°C / -34°F ~ 140°F		
	Other Functions	Auto Flip, Freeze on Preset, Auto Parking, Power-up Action						

VS-551 / VS-551-IR

1.3 MP IP VANDAL-PROOF DOME

Price: \$799 / \$849



- 1/3" Sony 1280 x 960 progressive CCD image sensor
- 1.3 MP streaming up to 1280 x 960 @ 22.5fps
- H.264 & H.264 MJPEG Dual Streaming
- Megapixel Varifocal Auto Iris lens (F1.2, f=3.6~16mm)
- 24 IR LEDs built-in (VS-551-IR)
- True Day & Night (Motorized IR Cut Filter) (VS-551-IR)
- Vandal-Proof dome
- Composite video output for angle / focus adjustments
- Integrated Video Motion Detection
- Motion Sensor Input & Alarm Output
- RS-485 Communication, Pelco D or Pelco P Protocol
- Two-Way Audio Communication (G.711/AAC)
- Built-in PoE (Power Over Ethernet: 802af)
- Transmission of video data through FTP server
- Various Protocols: TCP/IP, Multicast, UDP, HTTP, SMTP, FTP, DHCP, DNS, Dynamic DNS, RTP, RTSP, SNMP
- PSIA and ONVIF compliant
- SDK & API Available

Optional Accessories



VS-B370-10W
Wall Mount Bracket
(For Indoor and Outdoor use)
Price: \$125.00



VS-B370-10C
Ceiling Mount Bracket
(For Indoor and Outdoor use)
Price: \$125.00



V-PS12-5V
Power Supply
Required for applications not utilizing PoE
Price: \$89.00

1.3MEGAPIXEL

IRILLUMINATION

PoEPOWER OVER ETHERNET

VANDAL-PROOF

IP Appssee pages 4-5

12345

FREE

16-Channel Video Management Software INCLUDED

SECTION		SPECIFICATIONS		SECTION		SPECIFICATIONS	
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)		Video	Frame Rate Range	5 ~ 30fps	
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP			Bitrate	32 ~ 10,240 Kbps	
Camera	Image Sensor	Sony 1/3", 1.3M CCD Image Sensor		Audio	Algorithm	G.711/AAC	
	Lens	DC Auto Iris Varifocal f=3.6 ~ 16mm, F1.2, IR Cut Filter			Input	1 x Line-In (RCA, Mono)	
	IR	24 IR LEDs (VS-551-IR)			Output	1 x Line-Out (RCA, Mono)	
					Sample Rate	G.711: 8kHz, AAC: 32kHz	
	AE Operation	Mechanical Iris lens selection, Slow Shutter on/off		Bitrate	G.711: 64Kbps, AAC: 64Kbps, 128Kbps		
		Flickerless, Backlight Function, Brightness, Max AGC Gain		Sensor Input	1 x NO Contact		
	AWB Operation	Auto White balance control		Alarm Output	1 x NO Contact		
	MIN. Illuminance	VS-551: Color: 1.5Lux (Slow frame: 0.4Lux) VS-551-IR: Color: 1.4Lux (Slow frame: 0.35Lux), B/W: 0Lux (IR LED ON)		Reset Button	1 x Factory Reset Button		
	Motion Detection	On/Off		Software	True NVR/CMS	Live Monitoring, Recording, Search & Playback, Backup	
Video	Standards	Main Stream: H.264		Physical	Dimensions	100Ømm for Vandal Dome, 124Ømm for Bottom	
		Secondary Stream: H.264 / MJPEG			Weight	VS-551: 1012 g / 2.2 lbs	
	Output	1 x Composite (1 Vpp 75 Ohm, BNC)				VS-551-IR: 1050 g / 2.3 lbs	
	Resolution	1280 x 960 ~ 352 x 240, 13 Resolution steps			Power	DC 12V, 0.5A PoE: 802.3af	
	Max Frame Rate	H.264 MJPEG: 22.5fps @ 1280 x 960, 30fps @ 1280 x 720 ~ 352 x 240			Power Consumption	MAX 6/9.6W	
					Operating Temp.	-10°C ~ 50°C / 14°F ~ 122°F	

VS-351 / VS-351-IR

D1 IP VANDAL-PROOF DOME

Price: \$499 / \$599



- 1/3" Sony HAD 768 x 494 CCD sensor
- Full D1 resolution @ 30fps
- H.264 & H.264 MJPEG Dual Streaming
- Auto Iris Varifocal f=2.8 ~ 11mm, F1.3 (VS-351)
- Auto Iris Varifocal f=2.9 ~ 10mm, F1.3 (VS-351-IR)
- 18 IR LEDs (VS-351-IR)
- Built-in OSD (On Screen Display)
- Two-Way Audio Communication (G.711)
- Integrated Video Motion Detection
- Motion Sensor Input & Alarm Output
- Built-in PoE (Power Over Ethernet: 802af)
- Transmission of Video Data through FTP server
- Various Protocols: TCP/IP, Multicast, UDP, HTTP, SMTP, FTP, DHCP, DNS, Dynamic DNS, RTP, RTSP, SNMP
- PSIA and ONVIF compliant
- SDK & API Available

Optional Accessories



V-PS12-1000-NP
Power Supply
Required for applications not utilizing PoE
Price: \$24.95



IP Apps
see pages 4-5



SECTION		SPECIFICATIONS		SECTION		SPECIFICATIONS		
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)		Video	Resolution	NTSC: 720 x 480, 720 x 240, 352 x 480, 352 x 240		
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP				PAL: 720 x 576, 720 x 288, 352 x 576, 352 x 288 540 TV Line		
Camera	Image Sensor	1/3" Sony Super HAD CCD, 410,000 pixels				Max Frame Rate	NTSC: Max 30fps / PAL: Max 25fps	
	Total Pixel	NTSC: 768(H) x 494(V) PAL: 752(H) x 582 (V)			Frame Rate Range		NTSC: 0.2 ~ 30fps / PAL: 0.2 ~ 25fps	
		Lens	Auto Iris Varifocal f=2.8 ~ 11mm, F1.3 (VS-351-IR)				Algorithm	G.711/AAC
	Auto Iris Varifocal f= 2.9 ~ 10mm, F1.3 (VS-351-IR)		Input	1 x Line-In (RCA, Mono)				
	IR	18 IR LEDs (VS-351-IR)		Output	1 x Line-Out (RCA, Mono)			
	Max. Aperture Ratio	1:1.5			Sample Rate	G.711: 8kHz, AAC: 32kHz		
	Back Light Compensation	On/Off/Auto		Bitrate		G.711: 64Kbps, AAC: 64Kbps, 128Kbps		
	Gain Control	AGC-L, AGC-H, OFF selectable			Serial	Port	1 x RS-485	
	White Balance	W-ATW/S-AWC/AWC/Manual		Data Rate			2,400bps ~ 115,200bps	
	Output	1 x Composite (1 Vpp 75 Ohm, BNC)			Sensor/ Alarm	Sensor Input	1 x NO Contact	
	Video	Electric Shutter Speed	1/60 ~ 1/200,000 sec				Alarm Output	1 x NO Contact
		Min. Illumination	0.002Lux (Intensifier), 0.3Lux (F1.3) B/W: OLUX(IR LED ON)-VS-351-IR		Reset Button	1 x Factory Reset Button		
			S/N Ratio	50 dB (AGC Off)		Software	True CMS/Web Viewer	Live Monitoring, Recording, Search & Playback, Backup
		Motion Detection	MD1 / MD2 / OFF		Dimensions			100Ø
Standards			H.264 compression algorithm Primary: H.264, Secondary: H.264 MJPEG			Weight	1012 g	
		Bitrate	32 ~ 10,240 Kbps		Power		DC 12V/0.5A PoE: 802.3af	
				Power Consumption		Max 9W		
					Operating Temp.	-10°C ~ 50°C / 14°F ~ 122°F		

VS-539-HDI

2.0 MP 10X ZOOM IP CAMERA WITH HDMI

Price: \$1,399



Back



- 2 MP 1/2.5" 1920 x 1080 CMOS Sensor
- Full HD resolution 1080p30 / 1080i60 Video Encoding
- 10x Optical Zoom Lens Built-in (F1.8 ~ F2.2, f=4.5mm ~ 45mm)
- 120x Zoom (10x Optical Zoom, 12x Digital Zoom)
- Up to 30fps @ 1920 x 1080 live streaming
- H.264 & H.264 MJPEG Dual Streaming
- HDMI Video Output
- Two-Way Audio Communication (G.711/AAC)
- True Day & Night (Motorized IR Cut Filter)
- BLC (Back Light Compensation)
- WDR (Wide Dynamic Range)
- SD™ Card Recording
- RS-485 Communication, Pelco D or Pelco P Protocol
- Integrated Video Motion Detection
- 2 Motion Sensor Inputs & 2 Alarm Outputs
- Built-in PoE (Power Over Ethernet: 802af)
- Various Protocols: TCP/IP, Multicast, UDP, HTTP, SMTP, FTP, DHCP, DNS, Dynamic DNS, RTP, RTSP, SNMP
- PSIA and ONVIF compliant
- SDK & API Available

Optional Accessories



V-PS12-1000
Power Supply
Required for applications not utilizing PoE
Price: \$24.95



IP Apps
see pages 4-5



SECTION		SPECIFICATIONS	SECTION		SPECIFICATIONS	
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)	Video	Resolution	1920 x 1080 ~ 352 x 240, 18 resolution steps	
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP		Max Frame Rate	H.264/MJPEG: 30fps @ all resolutions	
Camera	Image Sensor	1/2.5" CMOS Image sensor		Audio	Bitrate	32 ~ 10,240 Kbps
	Focal Length	1/3.6", F1.8~F2.2, f=4.5~45.0mm	Algorithm		Input	G.711, AAC
	Zoom	10x Optical zoom and 10x Digital zoom			Output	1 x Line-Out (Mini-Stereo)
	MIN. Illuminance	1.5 Lux (High Sensitivity Mode), F1.8			Sample Rate	G.711: 8kHz / AAC: 32kHz
	Max. Aperture Ratio	1:1.8			Bitrate	G.711: 64Kbps / AAC: 64Kbps, 128Kbps
	Motion Image Stabilizer	On/Off		Serial Port	Port	1 x RS-485
	Back Light compensation	On/Off	Data Rate		2,400bps ~ 115,200bps	
	Flip	Vertical Flip, Horizontal Flip	Sensor/Alarm	Sensor Input	1 x NO Contact	
	Exposure	Flickerless, Metering, Mode, Aperture, Shutter Speed, Brightness		Alarm Output	1 x NO Contact	
	Focus	Focus Range, Zoom Tracking	Reset Button	1 x Factory Reset Button		
White Balance Index	Auto, Indoor, Outdoor	User Interface		System Status	LED	
Image Quality	Sharpness, DNR, Chroma CR, Chroma CB, Hue CR, Hue CB		Software	True NVR/CMS	Live Monitoring, Recording, Search & Playback, Backup	
Video	Standards	Physical		Dimensions	131.6(W) x 61.5(L) x 70.8(H)mm	
			Weight	500.4 g		
	Power		DC 12V/0.5A PoE: 802.3af			
Output	Power Consumption		Max 6W			
			Operating Temp.	-10°C ~ 50°C / 14°F ~ 122°F		

The SD mark is a trademark of SD-3C LLC.

VS-540-HDI / VS-540-HDSDI

Price: \$1,999 / \$2,999

2.0 MP 10X ZOOM IP BOX CAMERA



VS-540-HDI



VS-540-HDSDI

- 2 MP 1/2.5" 1920 x 1080 CMOS Sensor
- Full HD resolution 1080p30 / 1080i60 Video Encoding
- 10x Optical Zoom Lens Built-in (F1.8 ~ F2.1, f=5.1mm ~ 51mm)
- 120x Zoom (10x Optical Zoom, 12x Digital Zoom)
- Up to 30fps @ 1920 x 1080 live streaming
- H.264 & H.264 MJPEG Dual Streaming
- HD-SDI Video Output (VS-540-HDSDI)
- Two-Way Audio Communication (G.711/AAC)
- True Day & Night (Motorized IR Cut Filter)
- BLC (Back Light Compensation)
- WDR (Wide Dynamic Range)
- SD™ Card Recording
- RS-485 Communication, Pelco D or Pelco P Protocol
- Integrated Video Motion Detection
- 2 Motion Sensor Inputs & 2 Alarm Outputs
- Built-in PoE (Power Over Ethernet: 802af)
- Various Protocols: TCP/IP, Multicast, UDP, HTTP, SMTP, FTP, DHCP, DNS, Dynamic DNS, RTP, RTSP, SNMP
- PSIA and ONVIF compliant
- SDK & API Available

Optional Accessories



V-PS12-1000
Power Supply
Required for applications not utilizing PoE
Price: \$24.95



Wide Angle Lens Adapters
See Page 31 for info and pricing



IP Apps
see pages 4-5



SECTION		SPECIFICATIONS	SECTION		SPECIFICATIONS
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)	Video	Output	1 x HDMI or 1 x HD-SDI (BNC type) (Choose one option)
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP		Resolution	1920 x 1080 ~ 352 x 240, 18 resolution steps
Camera	Image Sensor	2.0M 1/2.5" CMOS Image Sensor		Max Frame Rate	H.264/MJPEG: 30fps @ all resolutions
	Focal Length	F1.8 ~ F2.1, f=5.1mm~51mm		Bitrate	32 ~ 10,240 Kbps
	Zoom	10x Optical Zoom and 12x Digital Zoom		Algorithm	G.711, AAC
	Focus Position	∞ ~ 1cm	Audio	Input	1 x Line-In (Mini-stereo)
	Angle of View	Horizontal: 50(Wide) ~ 5.4(Tele)		Output	1 x Line-Out (Mini-stereo)
	Minimum Illuminance	1.0 Lux (B/W), F1.8 with 50 IRE		Sample Rate	G.711: 8kHz / AAC: 32kHz
	S/N Ratio	50 dB or more		Bitrate	G.711: 64Kbps / AAC: 64Kbps, 128Kbps
	AE Mode	Auto, Manual, Bright, Shutter Priority, Iris Priority, Spot	Serial Port	Port	1 x RS-485
	IRIS Control	Auto / Manual (F1.8 ~ F26, Close)	Sensor/Alarm	Data Rate	2,400bps ~ 115,200bps
	Gain Control	Auto / Manual (-3 ~ 18 dB)		Sensor Input	1 x Photo-Coupler Input
	Shutter Control	Auto / Manual (1/2 ~ 1/10,000 sec)	Reset Button	Alarm Output	1 x Relay Output (Normal Open)
	White Balance	Auto / Manual (Red, Blue Gain Adjustable)		Factory Reset Button	Factory Reset Button
	DSS Limit	1/60 ~ 1/2 or 1/50 ~ 1/2	User Interface	System Status	LED
	Day & Night	Auto / Day / Night (ICR)	Software	True NVR/CMS	Live Monitoring, Recording, Search & Playback, Backup
	BLC	Auto / Manual		Dimensions	167.1(W) x 74(L) x 73(H)mm
Video	WDR	On / Off	Physical	Weight	685 g
	Aperture Control	16 steps		Power Source	DC 12V/0.7A PoE: 802.3af
	Standards	Main Stream: H.264 Secondary Stream: H.264 MJPEG		Power Consumption	Max 8.5W
					Operating Temp. -10°C ~ 50°C / 14°F ~ 122°F

The SD mark is a trademark of SD-3C LLC.

VS-541-HDI / VS-541-HDSDI

Price: \$2,599 / \$3,299

2.0 MP 20X ZOOM IP BOX CAMERA



VS-541-HDI



VS-541-HDSDI

- 2 MP 1/2.5" 1920 x 1080 CMOS Sensor
- Full HD resolution 1080p30 / 1080i60 Video and Audio Encoding
- 20x Optical Zoom Lens Built-in (F1.6 ~ F3.5, f=4.7mm ~ 94mm)
- 240x Zoom (20x Optical Zoom, 12x Digital Zoom)
- Up to 30fps @ 1920 x 1080 live streaming
- H.264 & H.264 MJPEG Dual Streaming
- HD-SDI Video Output (VS-541-HDSDI)
- Two-Way Audio Communication (G.711/AAC)
- True Day & Night (Motorized IR Cut Filter)
- BLC (Back Light Compensation)
- WDR (Wide Dynamic Range)
- SD™ Card Recording
- RS-485 Communication, Pelco D or Pelco P Protocol
- Integrated Video Motion Detection
- 2 Motion Sensor Inputs & 2 Alarm Outputs
- Built-in PoE (Power Over Ethernet: 802af)
- Various Protocols: TCP/IP, Multicast, UDP, HTTP, SMTP, FTP, DHCP, DNS, Dynamic DNS, RTP, RTSP, SNMP
- PSIA and ONVIF compliant
- SDK & API Available

Optional Accessories



V-PS12-1000
Power Supply
Required for applications not utilizing PoE
Price: \$24.95



Wide Angle Lens Adapters
See Page 31 for info and pricing



IP Apps
see pages 4-5



SECTION		SPECIFICATIONS	SECTION		SPECIFICATIONS
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)	Video	Output	1 x HDMI or 1 x HD-SDI (BNC type) (Choose one option)
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP		Resolution	1920 x 1080 ~ 352 x 240, 18 resolution steps
Camera	Image Sensor	2.0M 1/2.5" CMOS Image Sensor		Max Frame Rate	H.264/MJPEG: 30fps @ all resolutions
	Focal Length	F1.6 ~ F3.5, f=4.7mm ~ 94mm		Bitrate	32 ~ 10,240 Kbps
	Zoom	20x Optical Zoom and 12x Digital Zoom		Algorithm	G.711/AAC
	Focus Position	∞ ~ 1 cm	Audio	Input	1 x Line-In (Mini-stereo)
	Angle of View	Horizontal: 54.1(Wide) ~ 3.0(Tele)		Output	1 x Line-Out (Mini-stereo)
	Minimum Illuminance	1.0 Lux (B/W), F1.8 with 50 IRE		Sample Rate	G.711: 8kHz / AAC: 32kHz
	S/N Ratio	50 dB or more		Bitrate	G.711: 64Kbps, AAC: 64Kbps, 128Kbps
	AE Mode	Auto, Manual, Bright, Shutter Priority, Iris Priority, Spot	Serial Port	Port	1 x RS-485
	IRIS Control	Auto / Manual (F1.8 ~ F26, Close)	Sensor/Alarm	Data Rate	2,400bps ~ 115,200bps
	Gain Control	Auto / Manual (-3 ~ 18 dB)		Sensor Input	1 x Photo-Coupler Input
	Shutter Control	Auto / Manual (1/2 ~ 1/10,000 sec)	Reset Button	Alarm Output	1 x Relay Output (Normal Open)
	White Balance	Auto / Manual (Red, Blue Gain Adjustable)		Factory Reset Button	Factory Reset Button
	DSS Limit	1/60 ~ 1/2 or 1/50 ~ 1/2	User Interface	System Status	LED
	Day & Night	Auto / Day / Night (ICR)	Software	True NVR/CMS	Live Monitoring, Recording, Search & Playback, Backup
	BLC	Auto / Manual		Dimensions	167.1(W) x 74(L) x 73(H)mm
Video	WDR	On / Off	Physical	Weight	685 g
	Aperture Control	16 steps		Power Source	DC 12V/0.7A PoE: 802.3af
	Standards	Main Stream: H.264 Secondary Stream: H.264 MJPEG		Power Consumption	Max 8.5W
					Operating Temp. -10°C ~ 50°C / 14°F ~ 122°F

The SD mark is a trademark of SD-3C LLC.

20 IP BOX CAMERA

Optional Accessories



VS-542-HDSDI



Power Supply
Required for applications
not utilizing PoE
Price: \$24.95

Price: \$24.95

IP Apps
see pages 4-5

① ② ③ ④ ⑤



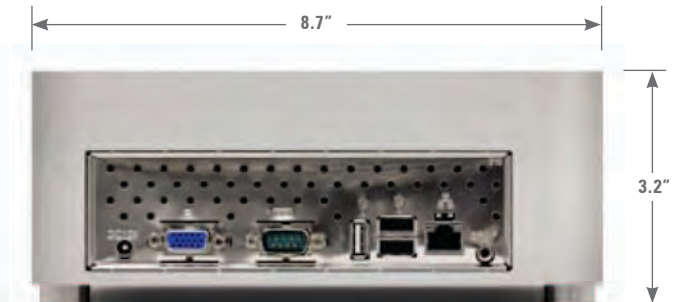
FREE
16-Channel Video
Management Software
INCLUDED

The SD mark is a trademark of SD-3C LLC.

NETWORK VIDEO RECORDER

21

- Embedded Linux Operating system
- Supports 9 Channels of D1 or Megapixel Cameras
- Compatible with VS-TKC-100 PTZ Keyboard Controller
- Remote live viewer, playback, backup, I/O control
- Supports E-MAP
- Support Relay streaming from IP Camera to Client SW
- Recording based on schedule associated events
- Various events monitoring and alarm notification
- Support H.264 and MJPEG video compression
- Pre & Post-event recording
- Automatic video encoding setting according to various screen modes
- JPEG snapshot with watermarking
- On-Screen PTZ Control
- Customized event creation by event handler
- Transfer of snapshot image email and FTP
- Automatic display unit mapping



* Intel and Intel Atom are trademarks of Intel Corporation in the U.S. and/or other countries.

VS-PTH-500 / VS-PTH-500IR

(Composite only)

Price: \$2,399 / 2,699

VS-PTH-550 / VS-PTH-550IR

(Composite and HD-SDI)

Price: \$2,899 / 3,199

WEATHER-PROOF PAN & TILT HOUSING WITH IR LED



(Camera not included)



The **VS-PTH-500** is a rugged weather-proof pan & tilt housing for below and above the horizon viewing with 360° panning (endless) capability.

The integrated wiper, heater, and fan allow use in even the most hostile environments. Optional IR lighting is available for up to 300 feet (100 meters) distance of IR Illumination. A range of built-in control protocols allow easy system integration.

VS-PTH-500 - Price: \$2,399 / Price w/o optional IR lighting

VS-PTH-500IR - Price: \$2,699 / Price includes IR lighting

Included Accessories



V-PS12-5V
Power Supply
Required for applications not utilizing PoE
Price: \$89.00

VS-BPTH-01



VS-BPTH-02



The **VS-PTH-550** is a rugged weather-proof pan & tilt housing for below and above the horizon viewing with 360° panning (endless) capability. The integrated wiper, heater and fan allow use in even the most hostile environments. Optional IR lighting is available for up to 300 feet (100 meters) distance of IR Illumination. A range of built-in control protocols allow easy system integration.

VS-PTH-550 - Price: \$2,899 / Price w/o optional IR lighting

VS-PTH-550IR - Price: \$3,199 / Price includes IR lighting

SECTION	SPECIFICATIONS	SECTION	SPECIFICATIONS
Internal Communication	RS-485 (Pelco D, Pelco P, AD, Phillips)	Power	AC24V 2A (Camera Out: DC12V) Power: 25W (Heater open 36W)
Pan Range	360° Endless	Operating Temperature	-31°F ~ +122°F (-35°C ~ +50°C)
Pan Speed	0.01° ~ 120°/sec	Size	395(W) x 480(D) x 450.5(H)mm
Tilt Range	+40° ~ -90°/sec	Internal Size	87(W) x 270(D) x 80(H)mm
Tilt Speed	0.01° ~ 100°/sec	Housing Window Size	67(W) x 57(H)mm
IR Illuminator	Hybrid IR 30pcs Dual Max 100m (VS-PTH-500IR / 550IR)	Overall Dimensions	15.6"(W) x 18.9"(D) x 13.8"(H) (395 x 480 x 349mm)
Fan/Heater/Wiper	Auto Temperature Control	Weight	37.5 lbs (17 kg)
Waterproof	IP67		
Max Load Weight	13.2 lbs (6 kg) Camera		

VS-TKC-100

PTZ KEYBOARD CONTROLLER

Price: \$399



- USB mouse function
- Operates with a 9V battery
- Controls up to 255 cameras
- Multiple protocols supported in each channel
- RS-485 / RS-422 communication (Tx: 3 port, TRx: 1 port)
- Programmable user preferences (Preset, Tour, Pattern, etc.)
- Built-in 3-Axis proportional joystick
- Easy upload of programming data via serial communication
- Built-in LCD with 2 lines of characters
- User password support
- Programmable transmission speed for each ID (2.4~57.6Kbps)



SECTION	SPECIFICATIONS	SECTION	SPECIFICATIONS
Keyboard Communication	Interface: RS-485 / RS-422 Operation distance: 4000ft (1.2km) on 24 AWG wire Protocol: Multiple (Pelco-D, Pelco-P, Etc.) (Baud rate selectable)	Power Consumption	Max. 140mA
Connector Type Data	TERMINAL BLOCK (8p)	LCD Display	Graphic Display 16 characters x 2 lines
Keyboard Button	Rubber button Numeric keypad and camera function keys	Operating Temperature	0°C ~ 45°C
Joystick	3-axis, variable speed with zoom	Humidity	10% ~ 70% Non-condensing
Input Voltage	DC 12V or 9V battery (Battery mode)	Dimensions	280(W) x 100.08(H) x 179.3(D)mm
		Weight	≈ 1.5 lbs
		In the package	TKC-100 Keyboard, AC Power Adapter (100-240V) USB Cable, Manual, Terminal block (8p)

VS-7300

Price: \$799

5 MP IP BOX CAMERA



*Lens Not Included



- 5 MP 1/2.5" 2592 x 1944 CMOS Image Sensor
- High Resolution Video streaming 2592 x 1944 @ 15fps
- H.264 & H.264 MJPEG Dual Streaming
- C/CS Lens Mount*
- True Day & Night (Motorized IR Cut Filter)
- Auto Iris (DC) lens control
- Integrated Video Motion Detection
- Built-in PoE (Power Over Ethernet: 802af)
- SD™ Card Recording
- Two-Way Audio Communication (G.711/AAC)
- Motion Sensor Input & Alarm Output
- Transmission of Video Bitrate Control (32Kbps ~ 10Mbps)

Optional Accessories



V-PS12-1000
Power Supply
Required for applications not utilizing PoE
Price: \$24.95



CS Mount Varifocal Lenses
See Page 31 for info and pricing



IP Apps
see pages 4-5



SECTION		SPECIFICATIONS	SECTION		SPECIFICATIONS
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)	Video	Max Frame Rate	MJPEG: 15fps @ 2592 x 1944, 18fps @ 2560 x 1600, 25fps @ 2048 x 1536, 30fps @ 2048x1080 ~ 176 x 120
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP			H.264: 8fps @ 2592 x 1944, 10fps @ 2560 x 1600, 15fps @ 2048 x 1536, 30fps @ 2048 x 1080 ~ 176 x 120
Camera	Image Sensor	1/2.5" CMOS Image sensor	Audio	Bitrate	32 ~ 10,240 Kbps
	Lens	C/CS Mount selectable (Lens is not included)		Algorithm	G.711, AAC
	Max. Aperture Ratio	1:1.8		Input	1 x Line-In (Mini-Stereo)
	Motion Image Stabilizer	On/Off		Output	1 x Line-Out (Mini-Stereo)
	Back Light compensation	On/Off		Sample Rate	G.711: 8kHz / AAC: 32kHz
	Flip	Vertical Flip, Horizontal Flip		Bitrate	G.711: 64Kbps / AAC: 64Kbps, 128Kbps
	Exposure	Flickerless, Metering, Mode, Aperture, Shutter Speed, Brightness	Serial Port	Port	1 x RS-485
	Focus	Focus Range, Zoom Tracking		Data Rate	2,400bps ~ 115,200bps
	White Balance Index	Auto, Indoor, Outdoor	Sensor/Alarm	Sensor Input	1 x NO Contact
	Image Quality	Sharpness, DNR, Chroma CR, Chroma CB, Hue CR, Hue CB		Alarm Output	1 x NO Contact
Video	Motion Detection	On/Off		Reset Button	1 x Factory Reset Button
	Standards	Main Stream: H.264 Secondary Stream: H.264 MJPEG	User Interface	System Status	LED
	Resolution	2592 x 1944, 2560 x 1600, 2048 x 1536, 2048 x 1080 ~ 176 x 120	Software	True NVR/CMS	Live Monitoring, Recording, Search & Playback, Backup
				Dimensions	103.5(W)mm x 70.3(L)mm x 70.6(H)mm
				Weight	437.0 g (without Lens)
				Power Source	DC 12V/0.5A PoE (802.3af)
			Physical	Power Consumption	Max 6W

The SD mark is a trademark of SD-3C LLC.

VS-6300

Price: \$699

3 MP IP BOX CAMERA



*Lens Not Included



- 3 MP 1/3" 2048 x 1536 CMOS Image Sensor
- High Resolution Video streaming 2048 x 1536 @ 15fps
- H.264 & H.264 MJPEG Dual Streaming
- C/CS Lens Mount*
- True Day & Night (Motorized IR Cut Filter)
- Auto Iris (DC) lens control
- Integrated Video Motion Detection
- Built-in PoE (Power Over Ethernet: 802af)
- SD™ Card Recording
- Two-Way Audio Communication (G.711/AAC)
- Motion Sensor Input & Alarm Output
- Transmission of Video Bitrate Control (32Kbps ~ 10Mbps)

Optional Accessories



V-PS12-1000
Power Supply
Required for applications not utilizing PoE
Price: \$24.95



CS Mount Varifocal Lenses
See Page 31 for info and pricing



IP Apps
see pages 4-5



SECTION		SPECIFICATIONS	SECTION		SPECIFICATIONS
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)	Video	Max Frame Rate	MJPEG: 25fps @ 2048 x 1536, 30fps@2048 x 1080 ~ 176 x 120
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP			H.264: 15fps @ 2048 x 1536, 30fps @ 2048 x 1080 ~ 176 x 120
Camera	Image Sensor	1/3" CMOS Image sensor	Audio	Bitrate	32 ~ 10,240 Kbps
	Lens	C/CS Mount selectable (Lens is not included)		Algorithm	G.711, AAC
	Max. Aperture Ratio	1:1.8		Input	1 x Line-In (Mini-Stereo)
	Motion Image Stabilizer	On/Off		Output	1 x Line-Out (Mini-Stereo)
	Back Light compensation	On/Off		Sample Rate	G.711: 8kHz / AAC: 32kHz
	Flip	Vertical Flip, Horizontal Flip		Bitrate	G.711: 64Kbps AAC: 64Kbps, 128Kbps
	Exposure	Flickerless, Metering, Mode, Aperture, Shutter Speed, Brightness	Serial Port	Port	1 x RS-485
	Focus	Focus Range, Zoom Tracking		Data Rate	2,400bps ~ 115,200bps
	White Balance Index	Auto, Indoor, Outdoor	Sensor/Alarm	Sensor Input	1 x NO Contact
	Image Quality	Sharpness, DNR, Chroma CR, Chroma CB, Hue CR, Hue CB		Alarm Output	1 x NO Contact
Video	Motion Detection	On/Off		Reset Button	1 x Factory Reset Button
	Standards	Main Stream: H.264 Secondary Stream: H.264 MJPEG	Software	System Status	LED
	Resolution	2048 x 1536, 2048 x 1080 ~ 176 x 120		True NVR/CMS	Live Monitoring, Recording, Search & Playback, Backup
			Physical	Dimensions	103.5(W)mm x 70.3(L)mm x 70.6(H)mm
				Weight	437.0 g (without Lens)
				Power Source	DC 12V/0.5A PoE (802.3af)
				Power Consumption	Max 6W

The SD mark is a trademark of SD-3C LLC.

VS-5320

Price: \$599

2.0 MP C/CS DAY/NIGHT IP CAMERA



*Lens Not Included



- 2 MP 1/3" 1920 x 1080 CMOS Image Sensor
- High Resolution Video streaming 1920 x 1080 @ 30fps
- H.264 & H.264 MJPEG Dual Streaming
- C/CS Lens Mount*
- True Day & Night (Motorized IR Cut Filter)
- Auto Iris (DC) lens control
- Integrated Video Motion Detection
- SD™ Card Recording
- Two-Way Audio Communication (G.711/AAC)
- Motion Sensor Input & Alarm Output
- Built-in PoE (Power Over Ethernet: 802af)
- Transmission of Video Bitrate Control (32Kbps ~ 10Mbps)

Optional Accessories



V-PS12-1000
Power Supply
Required for applications not utilizing PoE
Price: \$24.95



CS Mount Varifocal Lenses
See Page 31 for info and pricing



IP Apps
see pages 4-5



VS-5310

Price: \$519

1.3 MP C/CS DAY/NIGHT IP CAMERA



*Lens Not Included



- 1.3 MP 1/3" 1280 x 720 CMOS Image Sensor
- High Resolution Video streaming 1280 x 720 @ 30fps
- H.264 & H.264 MJPEG Dual Streaming
- C/CS Lens Mount*
- True Day & Night (Motorized IR Cut Filter)
- Auto Iris (DC) lens control
- Integrated Video Motion Detection
- SD™ Card Recording
- Two-Way Audio Communication (G.711/AAC)
- Motion Sensor Input & Alarm Output
- Built-in PoE (Power Over Ethernet: 802af)
- Transmission of Video Bitrate Control (32Kbps ~ 10Mbps)

Optional Accessories



V-PS12-1000
Power Supply
Required for applications not utilizing PoE
Price: \$24.95



CS Mount Varifocal Lenses
See Page 31 for info and pricing



IP Apps
see pages 4-5



SECTION		SPECIFICATIONS	SECTION		SPECIFICATIONS
Camera	Image Sensor	1/3" CMOS Image Sensor	Video	Video Streaming	Primary: H.264, Secondary: H.264, MJPEG
	Min Illumination	0.5 Lux (Color) / 0.02 Lux (B/W), F1.6, 50 IRE, 1/4s, 28 dB		Image Control	Brightness/Contrast
	S/N Ratio	38.1 dB		Backup	SD Card, FTP
Image Enhance-ment	Gain Control	Auto / Manual	Audio	Algorithm	G.711/AAC
	White Balance	AWB Auto On/Off		Input	1 x Line-In (Mini Stereo)
	True Day & Night (TDN)	0		Output	1 x Line-Out (Mini Stereo)
	Backlight Compensation	BLC		Sample Rate	G.711: 8kHz, AAC: 32kHz
	Flickerless	50Hz/60Hz		Bitrate	G.711: 64Kbps, AAC: 64Kbps, 128Kbps
	On-Screen Display	English	Network	Network Interface	Ethernet 10/100Base-T (RJ-45)
	Motion Detection	0		Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP
	Flip Mode	Horizontal / Vertical	Integration Interface	API (Application Programming Interface)	TSDK, PSAI, ONVIF
Lens	Lens Mount	C/CS Mount		Serial Connectors	1 x RS-485
	Digital Shutter Speed (DSS)	Off/Auto (1/30 ~ 3SEC)		Sensor Input	1 x NO Contact
Video	Video Compression	H.264 MP Level 4		Alarm Input	1 x NO Contact
	Frame Rate	1 ~ 30fps	General	Power Supply	DC 12V/3A & Power Over Ethernet: 802.3af
	Bitrate	32 ~ 10,240 Kbps		Power Consumption	Max 6W
	Resolutions	1920 x 1080		Operating Temp.	-40°C ~ 50°C / -40°F ~ 122°F
				Dimensions	66.42(W)mm x 127.50(L)mm x 58.80(H)mm
				Weight	531 g

The SD mark is a trademark of SD-3C LLC.

SECTION		SPECIFICATIONS	SECTION		SPECIFICATIONS
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)	Audio	Algorithm	G.711, AAC
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP		Input	1 x Line-In (Mini-Stereo)
Camera	Image Sensor	1/3" CMOS Image Sensor		Output	1 x Line-Out (Mini-Stereo)
	Lens	C/CS Mount (Lens is not included)		Sample Rate	G.711: 8kHz, AAC: 32kHz
	MIN. Illuminance	0.7 Lux (Color) / 0.02 Lux (B/W) @ 50 IRE	Serial Port	Bitrate	G.711: 64Kbps, AAC: 64Kbps, 128Kbps
	AE Operation	Mechanical Iris lens selection, Slow Shutter on/off		Port	1 x RS-485
	AWB Operation	Auto white balance control	Sensor/ Alarm	Data Rate	2,400bps ~ 115,200bps
	Motion Detection	On/Off		Sensor Input	1 x NO Contact
Video	Standards	Main Stream: H.264		Alarm Output	1 x NO Contact
	Resolution	1280 x 960 ~ 352 x 240, 13 resolution steps	User Interface	Reset Button	1 x Factory Reset Button
	Max Frame Rate	H.264 MJPEG: 22.5fps @ 1280 x 960, 30fps @ 1280 x 720 ~ 352 x 240		System Status	LED
	Bitrate	32 ~ 10,240 Kbps	Software	True NVR/CMS	Live Monitoring, Recording, Search & Playback, Backup
				Dimensions	103.5(W)mm x 70.3(L)mm x 70.6(H)mm
				Weight	437.0 g (without Lens)
				Power Source	DC 12V/0.5A PoE (802.3af)
				Power Consumption	Max 6W
				Operating Temp.	-10°C ~ 50°C / 14°F ~ 122°F

The SD mark is a trademark of SD-3C LLC.

DAY / NIGHT CAMERAS

A silver Sony CCD camera with a large lens and a small LCD screen on the side. The camera is shown from a three-quarter view, highlighting its compact design and professional appearance.

- ## Optional Accessories



FREE
16-Channel Video
Management Software
INCLUDED

① ② ③ ④ ⑤

28

The SD mark is a trademark of SD-3C LLC.

A black, cylindrical outdoor security camera with a mounting bracket and a lens surrounded by a ring of LEDs.

- ## Optional Accessories



FREE
16-Channel Video
Management Software
INCLUDED



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The SD mark is a trademark of SD-3C LLC.

VS-H40-SBH / VS-H40-SBH-P

Price: \$159 / \$189

WEATHER-PROOF HOUSING FOR IP CAMERAS WITH INTEGRATED SUNSHIELD, HEATER, & BLOWER



(Camera not included)

- IP67-rated water-proof and vandal resistant enclosure
- Die-cast aluminum construction resists damage
- Built-in heater, blower, and sunshield
- Built-in PoE splitter - IEEE 802.3 (VS-H40-SBH-P)
- Includes wall mount bracket with cable feed-through
- Easy access to the camera
- Special M20 cable gland provides easy access to RJ-485 connector
- Includes wall mount bracket



The Marshall VS-H40-SBH is a high quality outdoor housing solution designed for use with Marshall Electronics' line of IP and HD-SDI cameras. It features solid die-cast construction with a built-in heater and blower. A durable sunshield provides proper weather and vandal protection.



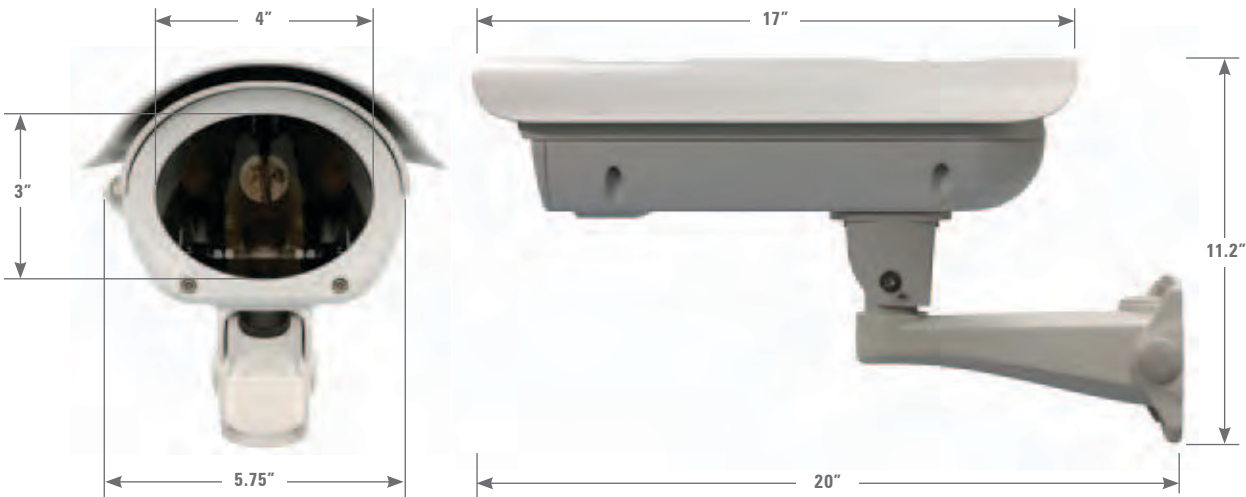
Interior View

VS-H40-SBH Price: \$159

Weatherproof housing with integrated Sunshield, Heater, and Blower

VS-H40-SBH-P Price: \$189

Weatherproof housing with integrated Sunshield, Heater, Blower, and built-in PoE



SECTION	SPECIFICATIONS	SECTION	SPECIFICATIONS
Construction	Die-cast aluminum body with glass window and water resistant connector	Waterproof	IP67
Window	3mm thick glass	Using Temperature	29°C ~ 50°C (-40°F ~ 122°F)
Dimensions with Bracket	20"L x 5.75"W x 11.2"H	Input Power	DC12V or PoE IEEE 802.3 48V
		Power Consumption	Max 8W (Heater 5W & Blower 3W)

CS Mount Varifocal Lenses with DC Auto Iris

FOR USE WITH VS-SERIES CS MOUNT MEGAPIXEL BOX CAMERAS

Varifocal lenses permit users to change the effective focal length (EFL) and the horizontal angle of view. This flexibility allows camera installations in a variety of places that often require lenses of different focal lengths.



CS Mount Megapixel Varifocal Lenses:						
Model	Focal Length (mm)	F-Stop	1/4" Sensor	1/3" Sensor	1/2.5" Sensor	Price
VS-M246A	2.4 ~ 6	F1.4	74° ~ 34°	90° ~ 43°	98° ~ 49°	\$ 139.95
VS-M408A	4 ~ 8	F1.4	48° ~ 25°	62° ~ 33°	70° ~ 38°	\$ 139.95
VS-M4012A	4 ~ 12	F1.4	48° ~ 17°	62° ~ 22°	70° ~ 36°	\$ 139.95
VS-M550A	5 ~ 50	F1.4	40° ~ 4°	50° ~ 5.4°	58° ~ 6.3°	\$ 179.95

Wide Angle Lens Adapters

FOR USE WITH VS-540 AND VS-541 TO INCREASE ANGLE OF VIEW

High quality optical glass lens adapters increase the viewing angle from 0.7x to 0.3x magnification. Various lens adapter rings are included for use on other models of cameras and camcorders.



Wide Angle Lens Adapters:					
Model	Description	Adapter Rings Included	Camera Compatibility		Price
			VS-540	VS-541	
VS-LRX-3035	0.3x wide angle lens adapter	27mm 30mm, 30.5mm, 34mm, 37mm, 43mm	OK	N/A	\$249.00
VS-LRX-5050	0.5x wide angle lens adapter	27mm, 30mm, 30.5mm, 34mm 37mm, 43mm	OK	N/A	\$219.00
VS-LRX-731	0.7x wide angle lens adapter	37mm, 43mm, 49mm, 52mm 55mm	OK	OK	\$199.00

VS-P1000V

PoE+ IN-LINE INJECTOR

PoE+ injectors are for use with the VS-370, VS-570, VS-571, and VS-572 PTZ Dome cameras. This allows both IP Ethernet and camera power to be supplied via a single Cat5 cable.



- 10/100/1000Mbps
- Input: 100-240V
- Output: 56V 0.6A (33.6W)
- CISPR 22 'B', VCCI 'B', FCC 'B' Compliance
- Lightweight: 185 g
- Efficiency 83% Typical
- Over-Voltage Protective Installation
- Short-Circuit Protective Installation
- Protection Type: Auto-Recover
- 802.3at Compatible
- Operating Temperature -10°C~55°C
- FOR INDOOR USE ONLY

Price: \$79.95

Mounting Brackets for VS-370 and VS-570 Series Dome Cameras

	VS-B370-10W	Wall Mount Bracket (For Indoor and Outdoor use)	VS-370-X10	\$125
	VS-B370-10C	Ceiling Mount Bracket (For Indoor and Outdoor use)	VS-370-X10	\$125
	VS-B570-W	Wall Mount Bracket (For Indoor and Outdoor use)	VS-570 VS-571 VS-572	\$170
	VS-B570-C	Ceiling Mount Bracket (For Indoor and Outdoor use)	VS-570 VS-571 VS-572	\$150
	VS-B570-P	Pole Mount Bracket (For Indoor and Outdoor use)	VS-570 VS-571 VS-572	\$150
	VS-B570-R	Corner Mount Bracket (For Indoor and Outdoor use)	VS-570 VS-571 VS-572	\$150

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Features, specifications, pricing, and dimensions are subject to change without notice. Physical appearance of products may vary slightly from images shown in this catalog. Please visit lcdracks.com for updates and information.