



**AVTRON**

**MONARCH 1.3 MP**

**AM-SM1316-VMR1**

**IR VARI FOCAL  
IP CAMERA**



**Superior Engineering Design & Sensational Image Quality**

## **AM-SM1316-VMR1** **1.3 Megapixel** **IR VARI FOCAL IP CAMERA**

### **Features :**

- 1/3" CMOS Image Sensor with 1.3 Mega Pixel
- More Than HD Resolution with 1280(H) x 1024(V)
- True & Soft Day/Night for all 24/7 Surveillance mode
- Triplex Compression Streaming H.264, MPEG4, MJPEG for Network, Record, Image
- Selectable Three or Dual or Single Streaming Combination For simultaneously Operation
- Powered through Power over Ethernet(PoE) with IEEE 802.3af Standard
- Compliant with ONVIF 2.0 on May, 2012
- "Common Gateway Information API for 3rd party intrigration CMS/VAS/NVR "
- Low illumination 0.6Lux(Color), 0.2Lux(B/W)
- Wide Very Focal 3.3 to 10MM Mega Pixel Auto IRIS Lens
- High Intensity 18IR LED Night Vision up to 15 to 18M
- Noise Reduction by SNF & TNF
- Supported Local Storage by Micro SD(up to 32G), USB Slot for Wireless Application(Future Expansion Optional)
- Compatible with AVTRON Free Software Live up to 36CH with 16CH Playback Support
- Built in Multicast Streaming by that Large number of User can log on with Sensible Video Quality
- Wide Range Supported Network Protocol TCP/IP, UDP, RTP, RTSP, NTP, HTTP,DHCP, FTP, SMTP, DNS, DDNS
- Flexible & Selectable Video Stream Control by VBR & CBR
- Support Bi-Directional(Two-Way) Audio Communication (G.711/AAC)
- OSD Menu Control BY Configuration Menu
- Support Mirror Function with Horizontal, Vertical Direction
- Adjustable Exposure Mode Auto/Flicker/ Manual, Sense-Up
- Support Email Notification, FTP Upload, Composite Video Output
- Easy, Fast & User Friendly GUI CMS & Network Discovery BY UPnP
- Multi User Support with Software Access Level Control with Password Protection
- 3rd party System intrigration by RS485/Sensor/Relay
- 8 Zone Arbitrary rect.Areas Motion Detection,BLC, Privacy Masking, Camera ID & etc
- Dual Power Support by 12V DC & POE
- 3 Axis Bracket, ABS Plastic with illustration Dome Cover



## Specifications :

Model No.	AM-S1316-VMR1
<b>Camera Specification</b>	
Sensor Type	1/3" 1.3M CMOS Sensor
Effective Pixels	Effective Max Pixel 1.3M with 1329(H) x 1049(V)
Lux Level(illumination)	0.6Lux @ Color, 0.2 Lux @ B/W @ F1.3
Shutter Speed Control	AUTO 1/30s-1/12,000s
Gain Control(AGC)	Low/MID/HIGH
Lens	3.3 ~ 10mm DC Auto IRIS
IR LED	18pcs, 0.5mm
IR Wave Length	850 ~ 880nm Infrared
IR Distance	up to 15 ~ 18Meter
White Balance	Auto/ATC/Fixed/Manual
<b>On Screen Display</b>	
Day/Night	Auto / Color / BW
Digital Noise Reduction	Off/SNF/TNF/SNF + TNF
Sens-Up	up to 8X
Back Light Compensation(BLC)	Off/Low/Mid/High
Camera ID Name	On/Off
Privacy Masking	On/Off (max.10 areas, 6 colors)
OSD Menu Control	Yes
Mirror	Off/H/V/H+V
Motion Detection	8 subjective rect. Areas
Image Control	Brightness, Contrast, Sharpness, Saturation
<b>Compression/Video/Audio</b>	
Video Compression	H.264 / MPEG4 / MJPEG
Video Resolution	Max. 1280x1024, 1280x960, 1600x900, 1024x760, 1280x720, 800x600, 720x480, 640x480
Record & Live Frame rate	Selectable 1 ~ 30fps
Rate control	VBR/CBR, I-Frame interval
Bit Rate	32Kbps ~ 8MBPS

## Specifications :

Streaming	Single or dual or Triple configured by H.264, MPEG4 and MJPEG
Video output	Composite by RCA Socket(Analog) / RJ-45
Signal System	PAL/NTSC/Analog RGB Selectable
Audio Compression	G.711u(64kbps), AAC(128kbps)
Audio Connection	Line in / Line out (Stereo JACK)
Communication	Bi-directional
<b>Software Intrigration</b>	
Onvif	YES, V2.0
CMS Record	CAMMANAGER 36CH Record @ up to 2.0 M Resolution
CMS Playback	16CH Playback Support
3rd Party VMS/NVR /CMS	BY Onvif V2.0 / CGI
Event Trigger	BY Motion detection, Alarm Port
Event Handing	On-screen alerts/Mail/FTP/Configurable alert sound/Record
Event Recording	Pre-record (3sec.)/Post-record (30sec.)
FTP Upload	YES
EMAIL Notifiacion	YES
<b>Memory &amp; Storage</b>	
DDR RAM	256MB
FLASH RAM	64MB
Storage	Micro SD Slot(32GB Max.)
<b>Network</b>	
Connection	RJ-45 Ethernet
Protocol	TCP/IP, UDP, RTP, RTSP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS
Streaming	Unicast, Multicast
Access control	Access levels with password protection
DDNS	Yes(dyndns)
Network discovery	UPnP
LAN Connectivity	10/100 Based-T
<b>Interface</b>	
RS-485	Yes

## Specifications :

Sensor	1 x Sensor Input
Alarm	1x Alarm Output(Relay)
<b>General</b>	
Power Supply	PoE, IEEE802.3af & DC 12V
Power Consumption	<550mA
Operating Temperature	-10°C ~ + 50°C
Operating Humidity	30% ~ 90% RH
<b>Mechanical</b>	
Weight (g)	530g Approx.
Mechanism	3 Axis, Metal Bracket
Dome	Optical Corrected Dome Cover

\* Product specifications and appearance may be changed without prior notice due to improvements.



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