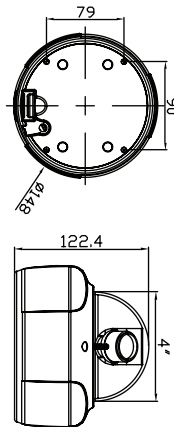


3 Series



Securing Perfection

Available models:

- Standard Definition Models
3-SD
- High Definition Models
3-HD

Features



Standard Definition



High Definition



Day & Night Function



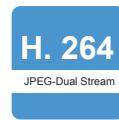
Illumination Sensitivity



Wide Dynamic Range



Two-Way Audio



H. 264 JPEG-Dual Stream



PoE Connection



IP Output



Frame Rate

Certifications



ONVIF



CE Certified



FCC Certified

Suggested Applications

Retail Security
Home Surveillance
Towers and Large Buildings
Remote Areas with Available 3G
Hypermarkets
Airports
Train Stations
Universities

Description

The 3 Series offers compact wall or ceiling mounted indoor cameras. New ISP and Super HAD II sensors enable the 3 Series cameras to achieve over 1000 TVL and produce a clear and highly detailed image. Network digital video streaming over IP and advanced H.264 and M-JPEG image compression make it possible to integrate the 3 Series cameras into any existing TCP/IP network. An integrated web server also offers the ability to access any network camera over the Internet and control the camera over a PC. The 3 Series cameras back up to an integrated SD card for continued local storage in the event of network failure, and offer two-way audio and video-out through a BNC connector. Advanced 2D/3D digital noise reduction helps reduce the amount of low luminance noise as well as the signal to noise (S/N) ratio, resulting in a dramatically improved horizontal resolution and a clearer and sharper image display, even in dark conditions.

Features



Standard
Definition

Standard Definition

Our standard definition (SD) cameras offer exceptional image quality with a resolution of over 1000 TVL and pixel aspect ratios of 704x576 and 704x480 for PAL and NTSC respectively. The SD cameras are available with 10x, 18x, or 36x zoom.



High
Definition

High Definition

For increased image detail and resolution quality our cameras are available with HD resolution.. With up to 30x optical zoom we deliver full HD resolution of 1920x1080p at 30 frames per second. Images are further enhanced through digital image stabilization and true wide dynamic range (WDR) processing for high contrast environments.



Day & Night
Function

Day & Night Function

With an automatic “Day & Night” function, our cameras can operate successfully in a minimum illumination environment. As the scene darkens, the infrared cut filter is automatically disabled and the camera switches to night vision mode where the near-infrared sensitivity increases.



Illumination
Sensitivity

Illumination Sensitivity

Due to its high shutter speed, the camera works within a minimum illumination range of 1.4 lux at 1/50s shutter speed up to 0.01 lux at 1/4s shutter speed with ICR on, allowing the camera to offer visibility in dark lighting conditions.



Wide
Dynamic
Range

Wide Dynamic Range

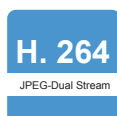
These cameras are capable of backlight compensation, which improves the video dynamic range of the camera by 128 times. The camera captures the same image twice, first with normal shutter speed and then with a high shutter speed. The two images are then processed and combined into one clear image using an advanced DSP LSI, producing a final product with clear images and visible detail even in extremely high contrast environments.



Two-Way
Audio

Two-Way Audio

Two-way audio enables the camera to both transmit audio information to a PC monitoring the camera and receive audio information sent from the command center. A single channel MIC in or line input facilitates audio input, and a single channel RCA linear output interface facilitates output.



H. 264
JPEG-Dual
Stream

Image Format

Cameras support H.264 compression, providing clear moving images over IP networks. The high H.264 compression algorithm works with half of the bit rate of previous compression algorithms, with a controllable bit rate up to 5Mbps, even on limited bandwidth networks. Advanced DSP technology and a high quality H.264 compression stream produce clear images and offer improved picture quality across different lighting conditions.

Features



PoE
Connection

Power Over Ethernet Connection

Each camera in our product portfolio offers power over Ethernet (PoE). Through a single Ethernet cable the camera is able to receive both power and data connectivity, reducing the cabling infrastructure requirements and streamlining the security network. The camera can also act as a powered device (PD) to supply power over Ethernet to other devices.



IP
Output

IP Network Output

These cameras have all the advantages and flexibility of an IP Network; allowing flexible connectivity through network cables, optical fiber cables or wireless systems. We provide customers with several installation options, depending on their requirements and the layout of the installation site.



Frame
Rate

Frame Rate

Our cameras provide both National Television System Committee (NTSC) and Phase Alternating Line (PAL) resolution standards, offering compatibility almost anywhere in the world.

Certifications



ONVIF

ONVIF

As a member of the Open Network Video Interface Forum (ONVIF), m_PAC stays current in the development of global IP-based physical security standards. All of our products conform to the latest ONVIF standards.



CE
Certified

CE

In compliance with European Union regulations, all m_PAC products have received a Declaration of Conformity for compliance with CE standard requirements.



FCC
Certified

FCC

In compliance with United States regulations, all m_PAC products have received a Declaration of Conformity for compliance with FCC standard requirements.

Lens

Image sensor	1/3" SONY 138+FH8520
Resolution	1200TVL
Minimum illumination	0.1 lux / f1.2
S/N ratio	>46dB
Electronic shutter	1/50 s~1/100,000 s for PAL, 1/60~1/100000 s for NTSC
Image enhancement	AGC / BLC / HPLC / ATR / WB / 2D / 3D NR
Day & Night	auto / external trigger / color / black and white
Lens	optional

Video

Compression	H.264 dual stream
Bit rate	16k to 1Mbps controllable
Frame rate	1 ~ 25 full D1 704x576 at PAL, 1 ~ 30 full D1 704x480 at NTSC
Video output	1.0 Vp-p 75 ohms

Audio

Audio input	one channel MIC in or line input unbalanced 1.4 Vp-p
Audio output	one channel, RCA interface, linear output
Audio compression	G.726, G.711, ADPCM

Alarm

Alarm input	one channel on/off input NO/NC
Alarm output	one channel on/off output 120 VAC 1A / 24 VDC 1A

Network

Ethernet port	10/100M Base-t self-adapting Ethernet port
Protocol	TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPOE, SMTP, UPNP
Web browser	Internet Explorer 6.0 or above
Wireless protocols	802.11b/g supports WEP, WPA, WPA2 (optional)

Others

Serial port	RS485 transparent protocol
Recording	motion trigger, alarm trigger, manual or schedule

Environmental

Operating temp.	-10° C ~ +60° C
Storage temp.	-20° C ~ +80° C
Operating humidity	10% ~ 85%

General

Input voltage	12 VDC
Power consumption	4W
Dimensions (cm)	14.8 x 14.8 x 12.2 (L x W X H)
Weight	0.75 Kg

Lens

Image sensor	1/3" progressive scan CMOS
Resolution	1920 (H) × 1080 (V)
Minimum illumination	color mode: 0.1 lux at f1.2 AGC on ; B/W mode: 0.005 lux at f1.2 AGC on
S/N ratio	more than 50dB (AGC off)
Electronic shutter	auto 1/25 s ~ 1/100,000 s, slow shutter: 1/2, 1/4, 1/8, 1/12
Image enhancement	AGC / BLC / WDR 180X / WB
Day & Night	auto
Lens	2.8 ~ 12mm manual zoom

Video

Compression	H.264 / M-JPEG dual stream
Bit rate	32k to 16Mbps CBR/VBR
Frame rate	(1 ~ 25) 1920 (H) × 1080 (V) at PAL / (1 ~ 30) 1920 (H) × 1080 (V) at NTSC
Video output	one channel composite video output

Audio

Audio input	one channel MIC in or line input unbalanced 1.4 Vp-p
Audio output	one channel, RCA interface, linear output
Audio compression	G.726, G.711, ADPCM

Alarm

Alarm input	one channel on/off input NO/NC
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Network

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Wireless protocols	802.11b/g supports WEP, WPA, WPA2 (optional)

Others

Serial port	RS485 transparent protocol
Recording	motion trigger, alarm trigger, manual or schedule

Environmental

Operating temp.	-10° C ~ +60° C
Storage temp.	-20° C ~ +80° C
Operating humidity	10% ~ 85%

General

Input voltage	12 VDC
Power consumption	6W
Dimensions (cm)	14.8 × 14.8 × 12.2 (L × W × H)
Weight	0.75 Kg