



Networked Video Solutions



# HD CCTV

104-298 Megapixel IP Camera  
104-299 Megapixel Rugged Dome IP Camera



104-299  
Including 3.3-12mm  
Varifocal lens

104-298  
Lens not included



## Premium H.264 IP Cameras

### MEGAPIXEL RESOLUTION

This example at 1280x960 pixels shows the outer rectangle area covering an area four times larger.

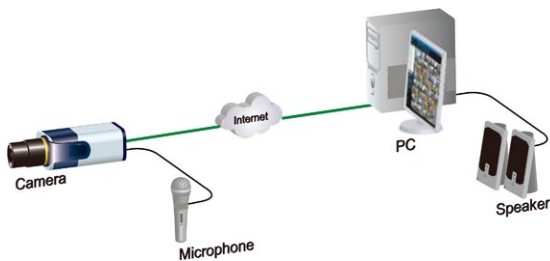


Analog Video



Megapixel

### VIDEO & AUDIO VIA LAN/INTERNET



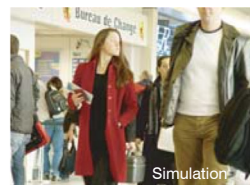
### SUPERIOR IMAGE CLARITY

In the same viewing area, megapixel cameras provides four times the image clarity compared to VGA cameras.



Simulation

VGA camera



Simulation

Megapixel

NESS-NET full bodied IP Camera and Rugged Dome IP camera featuring a 1.3 Megapixel CCD delivering extraordinary resolution and unparalleled image detail.

Boasting resolution up to 1280x960 allowing the monitoring of fine detail as never seen before.

Connect to LAN/WAN/INTERNET for high speed delivery of digital video via the dual streaming engine. Remotely view both MJPEG images and MPEG-4 video to achieve superior image quality and conserve bandwidth.

The feature list is extensive including Wide Dynamic Range, True Day/Night operation, Varifocal Lens (104-299), Digital Zoom, Two way audio and comprehensive browser based configuration and access.

### FEATURES

- 1/3" SONY PROGRESSIVE SCAN CCD SENSOR
- DUAL STREAMING:  
MJPEG – UP TO 1280X960 @ 15 FPS  
MPEG-4 – UP TO 640X480 @ 30 FPS
- DAY / NIGHT FUNCTION (REMOVABLE IR CUT FILTER)
- POWER OVER ETHERNET (802.3AF)
- WIDE DYNAMIC RANGE (WDR)
- MOTION DETECTION
- DIGITAL SLOW SHUTTER
- TWO-WAY AUDIO SUPPORT
- UP TO 12X DIGITAL ZOOM
- REMOTE ZOOM & FOCUS (104-299)
- 3.3 - 12mm VARIOFOCAL LENS (104-299)
- BACKLIGHT COMPENSATION
- AUTO EXPOSURE
- FLICKERLESS CONTROL
- 10/100 ETHERNET WITH RJ-45 CONNECTOR
- LOW LIGHT SENSITIVITY 0.2 LUX @ F1.2
- COMPACT SIZE AND LIGHT WEIGHT
- FREE BUNDLED CMS SOFTWARE

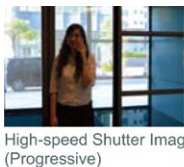
SPECIFICATIONS		104-298 Megapixel Camera	104-299 Megapixel Rugged Dome
CAMERA	IMAGING DEVICE	1/3" Sony Progressive CCD	
	SIGNAL SYSTEM	PAL	
	PICTURE ELEMENTS	1280 (H) x 960 (V)	
	SCANNING SYSTEM	625 lines, 2:1 Interlace	
	RESOLUTION	1.3 Megapixel	
	MINIMUM ILLUMINATION	0.03 Lux at F1.2	
	LENS	Not supplied	3.3 - 12mm Varifocal
	SHUTTER SPEED	1.5 ~ 1/10000 sec.	
	WHITE BALANCE CONTROL	Manual / ATW (1500 ~ 15000K)	
	OPERATION	VIDEO COMPRESSION	H.264 / MPEG-4 / MJPEG
VIDEO STREAMING		Simultaneous MPEG-4 and MJPEG video stream (dual stream)	
RESOLUTION		H.264: 1280 × 960 / HD 720p / D1 / VGA / QVGA / CIF / QCIF MJPEG: 1280 × 960 / HD 720p / D1 / VGA / QVGA / CIF / QCIF MPEG-4: 1280 × 960 / HD 720p / D1 / VGA / QVGA / CIF / QCIF	
FRAME RATE		MPEG-4 30fps @ VGA, MJPEG 15fps @1280x960	
DIGITAL ZOOM		1x ~ 12x	
IMAGE ADJUSTMENTS		Brightness, Exposure, Sharpness, Contrast, White Balance, Rotation	
AUDIO		Two way audio, Line in, Line out, Mic in, G.711/G.726 compression	
ALARM		Alarm input/output	
NETWORK	INTERFACE	10/100 Ethernet (RJ-45)	
	PROTOCOL	TCP/IP, UDR, RTP, RTSP, HTTP, ICMP, FTP, SMTP, DHCP, and IGMP	
	PASSWORD LEVELS	User and Administrator	
	INTERNET BROWSER	Internet Explorer (6.0+)	
	USER ACCOUNTS	20	
MECHANICAL	CONNECTORS	Power, DC jack, Ethernet, RJ45, Audio, 3.5mm stereo jack, Alarm, 4 way terminal	
	LED INDICATOR	Power, Link, ACT	
	OPERATING TEMPERATURE	0°C to 50°C / Humidity 10% to 90%, non-condensing	
	WEATHERPROOFING	N/A	IP66
	POWER SOURCE	12VDC / 24VAC / PoE	
	POWER CONSUMPTION	6.5W max. 540mA @ 12VDC	
	CERTIFICATION	CE, FCC, RoHS compliant	
	DIMENSIONS	125 x 70 x 52mm body only	151(Diameter) x 130.5(H)mm

### WIDE DYNAMIC RANGE

The Wide Dynamic Range (WDR) function is especially effective under harsh lighting and environments with extreme contrast.

The WDR function enhances highlights and shadows to produce an evenly lit image even under difficult lighting conditions such as glare and comparatively high backlighting.

WDR effortlessly produces an evenly lit image closer in appearance to the eye's natural ability for brightness adaption.



High-speed Shutter Image (Progressive)  
Normal Exposure Image (Progressive)



Composite Image by Wide Dynamic Range Technology

### DAY/NIGHT OPERATION

Day/Night mode for auto switching from true colour day mode to extra high sensitivity night mode.



### PROGRESSIVE SCAN

Progressive scan CCD sensor captures the entire scene, eliminating pixelated edges often seen on interlaced scan.



Interlaced scan



Progressive scan