

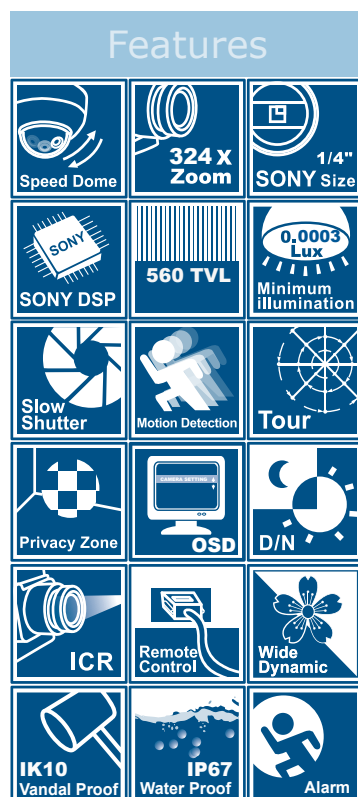
# NIC930HPRO

## 324X Vandal-Proof Speed Dome Camera

1/4" Sony Exview HAD CCD, 28X, PTZ, 3.5~98mm vari-focal lens, 560TVL, WDR, DNR mechanical (ICR) day/night, WDR, motion detection, privacy zone, OSD, IK10, IP67



The NIC930HPRO is a feature-packed speed dome camera. 324X (28X optical, 12X digital) zoom and fast panning & tilting allow pin point accuracy of even fast moving, far away objects. 560 TVL images are sharp and clear, day or night, because of day/night functionality, superior low lux performance and advanced 3D noise reduction. Particularly, it comes with image stabilizer function to reduce the influence of vibrations caused by wind or traffic. An IK10 vandal resistant bubble and IP67 water-proof housing, along with the heater and blower, make the NIC930HPRO an excellent choice for the most demanding outdoor locations.



### ■ Superior Sensitivity

The NIC930HPRO utilizes the superior 1/4" Sony CCD to deliver a high resolution of 560 TV lines. It features MESSOA highly sensitive low-light technology. Even in ultra low light conditions, it maintains high resolution images without blur.

### ■ 28X Optical Zoom

28X optical zoom and 12X digital zoom make the SDS710PRO have the capability to zoom in on an object for up to 324X the normal size. Images are revealed faster and clearer than ever before.

### ■ Presets and Auto Patrol

The NIC930HPRO offers as many as 256 preset positions. It can also be programmed with 4 pattern tours, each up to 6 minutes long. Operators can set 4 sets of preset auto patrol groups for convenience of key presets surveillance.

### ■ Mechanical (ICR) Day/Night

Featuring IR Cut Filter Removable (ICR) function, the camera mechanically detect changes in lighting conditions, and then switches between color and B/W modes. It provides perfect color images at day time and crisp monochrome images at night or very dark environment.

### ■ 3D Noise Reduction

Noise reduction is a powerful method for reducing image noise that produces extremely clear images even in very dim lighting conditions. Noise reduction cuts image size, reducing storage-space requirements and back-end costs.

### ■ Wide Dynamic Range

Wide dynamic range optimizes an image to ensure that dark areas are more visible while retaining detail in bright areas. WDR is ideal for scenes where objects are difficult to recognize due to severe backlight or shadows. Places like bank entrances tend to be either under-lit or over-lit. A typical camera would produce an image where a person in the dark area could hardly be recognized, whereas WDR cameras produce clear details not only of the person in the foreground but also of the background.

### ■ Image Stabilizer

Blur due to vibrations caused by wind, traffic or people is severely reduced, thus enabling a stable image. The Image Stabilizer is handy in windy environments, such as on a pole or in heavy traffic areas. License plates, faces, and other objects of interest are clearly captured regardless of the condition.

### ■ Completely Vandal-Proof

The camera is IK10-rated impact-resistant, meaning it withstands the impact of 20 Joules. It protects the camera against extreme vandalism, making it perfect for outdoor surveillance.

## Specifications

Lens	
Image Sensor	1/4" SONY Exview HAD CCD
Optical Zoom	28X
F-Stop Range	F1.35 ~ F3.7
Focal Length	3.5 mm (wide) ~ 98 mm (tele)
View Angle	55.8° (wide) ~ 2.1° (tele)
Effective Pixels (HxV)	NTSC: 380K pixels approx. PAL: 440K pixels approx.
Scanning System	NTSC: 2:1 Interlace V: 59.94Hz, H: 15.734KHz PAL: 2:1 Interlace, V: 50Hz, H: 15.625KHz
Sync System	Internal / line-lock
Video Output	1Vpp composite output, 75 ohm
Horizontal Resolution	560 TV Lines
S/N Ratio	More than 50 dB
Zoom Limit	Up to 324X (optical 28X, digital 12X)
Focusing System	Auto (normal sensitivity / low sensitivity)
Focus	Auto (sensitivity: normal, low), One-push AF, Manual, Infinity, Interval AF, Zoom Trigger AF
Minimum Illumination	Normal mode: 0.05 lux (F1.35, 1/60(1/50)sec. ICR OFF, @10 IRE) Slow shutter mode: 0.003 lux (F1.35, 1/4(1/3)sec. ICR OFF, @10 IRE) Night mode: 0.005 lux (F1.35, 1/60 (1/50) sec. ICR ON, @10 IRE) Slow shutter mode: 0.0003 lux (F1.35, 1/4(1/3) sec. ICR ON, @10 IRE)
Gain Control	Auto/Manual (-3 to 28 dB, 2 dB steps)
White Balance	Auto, ATW, One-push, Indoor, Outdoor, Manual, Outdoor Auto, Sodium Lamp
Electric Shutter	NTSC: 1/4 to 1/10,000sec. 20 Steps PAL: 1/3 to 1/10,000sec. 20 Steps
Auto Slow Shutter	On/Off
AE Control	Auto, Manual, Priority mode, Bright, EV compensation, Back-light compensation
EV Compensation	-10.5~+10.5dB(15 steps)
Backlight Compensation	On/off
Alarm Function	Yes
Day/Night Mode	Auto/Manual (-3 to 28 dB, 2 dB steps)
Flickerless	Yes
Wide Dynamic	YES, 128X
Motion Detection	Yes
3D Noise Reduction	Yes
Image Stabilizer	Yes
Color Enhancement	Yes
Picture Effect	
Mechanical Flip E-FLIP	Yes
Mirror Image	Yes
Freeze Image	Yes
P/T Operation	
Pan Range	360° continuous
Tilt Range	184° (92° each hemisphere)
Manual Pan Speed	0.1 - 90°/s
	0.1°/s: max dig. zoom ; 0.4°/s :max opt. zoom
Manual Pan Speed (turbo)	150°/sec
Manual Tilt Speed	0.1 - 45°/s
	0.1°/s: max dig. zoom ; 0.4°/s :max opt. Zoom
Preset Speed	Pan: 430°/sec(max); Tilt: 200°/sec (max)
Proportional P/T	Provided
Pan/Tilt Limit	User definable
Auto Flip	On/off
Zoom Limit	28x (optical only), 56x, 112x, 224x, 324x
Programmable Preset	256 points
Programmable Tours	4 pattern tours memorizing up to 6 mins of manual control
Privacy Zone	On/off, up to 24 zones (3D Privacy Zone)
Scan Function	Random, frame and auto-scan selectable
Alarm	6 inputs / 1 output
Preset Titles	Max 20 characters
Password Protection	alphanumeric Dome OSD setup protection
Other Superior Functions	Super Fine Pan for 0.02° Accuracy/ Motion Detection / Scheduling

Remote Control	
Remote Control	MESSOA P/D (Also support Pelco-P/D, GE-Kalatal, Bosch, Ernitec, Tyco)
Special Commands	support absolute(X, Y, Z) position
Interface	RS485
Baud Rate	2400, 4800, 9600, 19200 bit/s (DIP-sw selectable)
Network & Digital Video	
Video Compression	H.264/MPEG-4/Motion-JPEG
Picture Resolution	Full D1 (720x480 in NTSC, 720x576 in PAL) CIF (352x240 in NTSC, 352x288 in PAL) QCIF (160x112 in NTSC, 176x144 in PAL)
Bit Rate	28K ~ 3M bps
Image Frame Rate	30fps at full D1 resolution (NTSC) 25fps at full D1 resolution (PAL)
Multi-stream	Up to 4 configurable frame rate / bit rates streams for preview and recording
Network	
LAN port	Ethernet(10/100 Base-T)
WAN port	Ethernet(10/100 Base-T)
Software	
Web browser	Microsoft Internet Explorer 6.0 or above
SDK	ActiveX control, C SDK
Security	Password protection: configured by the Administrator
Mechanical/Environment	
Operating Temperature	-10°C to 50°C (-14°F to 122°F)
Operating Humidity	20% ~ 80% RH
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Dimensions (øxH)	217mm X 324.0mm (8.5" x 12.8")
Weight	3.8 KG (8.4 lb) approx.
Electrical	
Power Requirement	AC24V +/-10%
Power Consumption	46W (max.)
OSD	
Multi Language Support	English, Simplified Chinese, Traditional Chinese, Spanish, Portuguese, French, Japanese, German, Polish, Italian
Regulation	
Certification	NTSC: FCC, UL, PAL: CE
Protection	
Vandal-proof	IK10, 750 KG (1653 lb) impact resistance
Water-proof	IP67
Other	With Heater and Blower
Applications (Optional)	Pendant Pipe Mount (SAD702) Simple Wall Mount (SAD703) Wall Mount with Power Box (SAD704) Pendant Pipe Mount with Power Box (SAD705) Parapet Wall Mount (SAD706)
Ordering Information	NTSC: NIC930HPRO-HN2-US (US Power Cord) PAL: NIC930HPRO-HP2 -EU (EU Power Cord) NIC930HPRO-HP2 -UK (UK Power Cord)