Vandal-resistant Mini Dome 720/60p Camera Powered by IPELA ENGINE EX™

- Maximum resolution of 1280 x 1024 pixels with the Exmor[™] CMOS sensor
- High frame rate of 60 frames per second (fps)
- Dynamic range equivalent to 130 dB achieved with View-DR technology
- Scene analytics enhanced by unique features such as face detection
- H.264 (High/Main/Baseline Profile)/JPEG video codecs and AAC (16 kHz/48 kHz)/G.726/G.711 audio codecs
- Minimum illumination of 0.05 lx in Color mode and 0.04 lx in B/W mode at 50 IRE and 30 fps
- IK10-rated vandal-resistant feature

KEY FEATURES

- IPELA ENGINE EX signal processing system developed based on Sony's unique signal processing and video analytics technologies to provide unique technologies
- technologies to provide unique features such as a high frame rate, View-DR, XDNR, and DEPA™ Advanced



- High frame rate of 60 fps to provide smoother and less blurry moving pictures
- View-DR Sony's innovative wide dynamic range technology
 to capture objects clearly and adaptively even under very harsh, severe backlight or highlight conditions



OFF



 Visibility Enhancer (VE) to optimize the brightness and color reproduction of an image dynamically on a pixel-by-pixel basis while continuously adapting to the scene within the given dynamic range

 DEPA Advanced Intelligent Video and Audio Analytics to trigger an alarm based on user-defined rules



Actual Images

- XDNR (eXcellent Dynamic Noise Reduction) technology for clear images without motion blur under low illumination







ON

Actual Images

SON Y make.believe

- IK10-rated vandal-resistant feature to protect the camera from destructive behaviors
- SD card slot for an on-board recording capability*
- True D/N (Day/Night) function to switch to Day or Night mode depending on the light level
- Smartphone Viewer for accessing the camera from a smartphone
- Easy Focus/Easy Zoom for easy installation
- \circ Powered by either PoE (IEEE 802.3af-compliant), AC 24 V ±20%, or DC 12 V ±10% for easy installation
- ONVIF (Open Network Video Interface Forum)
 Profile S conformance
- VBR (variable bitrate) or CBR (constant bitrate) encoding format selectable to correspond with various network conditions
- Easy initial network settings by supplied SNC Easy IP Setup Guide application
- Image Stabilizer to minimize the effect of camera shake or vibration for less blurry images

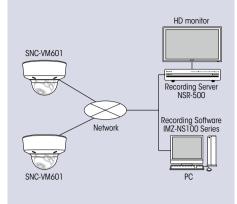
* Data recorded on an SD memory card may be lost or damaged by data access during power-off, mechanical shock, memory card detachment, or other operations. Data loss or damage can also occur when a memory card reaches end of life, which varies according to operational conditions. No guarantee is given against damage (including passive damage).

Connect Your Vision

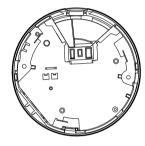


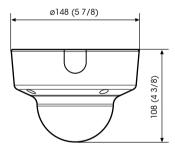
SPECIFICATIONS

Camera	
nage Sensor	1/3-type progressive scan Exmor CMOS
nage Sensor (Number of Effective Pixels)	Approx. 1.37 Megapixels
ignal System	NTSC color system / PAL color system (switchable)
linimum Illumination (50 IRE)	Color: 0.05 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps) B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
Minimum Illumination (30 IRE)	Color: 0.03 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
(initiation (30 ike)	B/W: 0.02 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
ynamic Range	Equivalent to 130 dB with View-DR technology
/N Ratio	More than 50 dB (Gain 0 dB)
ain	Auto
hutter Speed	1/1 s to 1/10000 s
ync System	Internal synchronization
xposure Control	Exposure compensation, AGC, Shutter speed, Iris
Vhite Balance	ATW, ATW-PRO, Fluorescent lamp, Mercury lamp, Sodium vapour lamp, Metal halide lamp, White LED, One push WB, Man
ens	Built-in varifocal lens
owered Zoom	Yes (Easy Zoom)
oom Ratio	Optical zoom 3x, Digital zoom 2x *3
owered Focus	Yes (Easy Focus)
orizontal Viewing Angle	93.0° to 31.6°
ertical Viewing Angle	50.6° to 17.8°
pcal Length	f = 3.0 mm to 9.0 mm
Number	F1.2 (Wide), F2.1 (Tele)
linimum Object Distance	300 mm
orizontal Resolution	600 TV lines (analog video) *2
reset Position	8
Dur	5
amera Features	
ay/Night	Yes
/ide-D	Yes (View-DR)
nage Enhancement	Visibility Enhancer (VE)
loise Reduction	XDNR
nage Stabilizer	Yes *3*6
mage Sodec Image Size (H x V)	1280 x 1024, 1280 x 960, 1024 x 768, 1280 x 720, 800 x 600, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 352 x 28
Codec Image Size (H x V)	1280 x 1024, 1280 x 960, 1024 x 768, 1280 x 720, 800 x 600, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 352 x 28 320 x 240 (H.264, JPEG)
ideo Compression Format	32U X 24U (H.204, JPEG) H.264 (High/Main/Baseline Profile), JPEG
odec Streaming Capability	Triple Streaming *1,CBR/VBR (selectable) *4
laximum Frame Rate	H.264: 60 fps (1280 x 1024) JPEG: 60 fps (1280 x 1024)
Audio	3120.00 (ps (1200 x 1024)
udio Compression Format	G.711/G.726/AAC (16 kHz, 48 kHz)
Scene Analytics	0.7 11/0.7 20/AAG (10 knz, 40 knz)
ntelligent Motion Detection	Yes
ace Detection	Yes *5
Rule-based Filter	DEPA Advanced *3
letwork	DEFA Auvalided
rotocols	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SMTP, IPv6 *5, HTTPS *4, SNMP (MIB-2) *4
NVIF Conformance	Yes (Profile S) *5
lumber of Clients	20
Authenticatoin	IEEE 802.1X *4
	IEEE 002.1A
nterface Inalog Video Output	BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative
nalog Monitor Output	
	Phono jack x1
ine Input	Mini jack (monaural)
ine Output	Mini jack (monaural), Maximum output level: 1 Vrms
letwork Port	10BASE-T/100BASE-TX (RJ-45)
ensor Input	x 2, make contact, break contact
larm Output	x 2, 24 V AC/DC, 1 A (mechanical relay outputs electrically isolated from the camera)
ficrophone Input	Mini jack (monaural)
ard Slots	SD Card x 1
ystem Requirements	
Operating System	Windows XP (32 bit) Professional Edition
	Windows Vista (32 bit) Ultimate, Business Edition
	Windows 7 (32/64 bit) Ultimate, Professional Edition
rocessor	Intel Corei7 2.8 GHz or higher
Memory Market Barrier	2 GB or more
Veb Browser	Microsoft Internet Explorer Ver. 7.0, Ver. 8.0, Ver. 9.0
	Firefox Ver. 3.5 (Plug-in free viewer only)
	Safari Ver. 4.0 (Plug-in free viewer only)
	Google Chrome Ver. 4.0 (Plug-in free viewer only)
Seneral	DeE austern (IEEE 202 2af compliant), DC 12 V + 10% AC 24 V + 20%
ower Requirements	PoE system (IEEE 802.3af compliant), DC 12 V ± 10%, AC 24 V ± 20%
ower Consumption	6.0 W max.
	-10 °C to +50 °C (14°F to 122°F)
tarting Temperature	0 °C to 50 °C (32°F to 122°F)
tarting Temperature torage Temperature	-20 °C to +60 °C (-4°F to +140°F)
tarting Temperature torage Temperature Iperating Humidity	-20 °C to +60 °C (-4°F to +140°F) 20% to 80%
tarting Temperature torage Temperature Iperating Humidity torage Humidity	-20 °C to +60 °C (-4°F to +140°F) 20% to 80% 20% to 5%
tarting Temperature torage Temperature Iperating Humidity torage Humidity andal Resistant	20 °C to +60 °C (4°F to +140°F) 20% to 80% 20% to 95% Yes
itarting Temperature Storage Temperature Operating Humidity Storage Humidity Granda Resistant Dimensions (W x H x D)	-20 °C to +60 °C (-4°F to +140°F) 20% to 8% 20% to 95% Yes 9148 x 108 mm (ø5 7/8 inches x 4 3/8 inches)
Starting Temperature Storage Temperature Operating Humidity Storage Humidity Grandal Resistant Dimensions (W x H x D) Mass	-20 °C 10 +60 °C (4°F to +140°F) 20% to 80% 20% to 55% Yes ø148 x 108 mm (ø5 7/8 inches x 4 3/8 inches) Approx.800 g (1 lb 12 oz)
Dperating Temperature Starting Temperature Starding Temperature Dperating Humidity Storage Humidity Arndol Resistant Dimensions (W x H x D) Mass Safety Regulations	-20 °C to +60 °C (-4°F to +140°F) 20% to 80% 20% to 95% Yes g148 x 108 mm (g5 7/8 inches x 4 3/8 inches) Approx. 800 g (1 lb 12 oz) JATE Technical standard (LNN)
Starting Temperature Storage Temperature Operating Humidity Storage Humidity Grandal Resistant Dimensions (W x H x D) Mass	-20 °C 10 +60 °C (-4°F to +140°F) 20% to 80% 20% to 55% Yes 9148 x 108 mm (ø5 7/8 inches x 4 3/8 inches) Approx. 800 g (1 lb 12 oz) JATE Technical standard (LAN) UL2044, IECA950-1 (CB)
starting Temperature lorage Temperature poperting Humidity lorage Humidity Grandal Resistant Dimensions (W x H x D) Jass	-20 °C (0 +60 °C (4°F to +140°F) 20% to 80% 20% to 95% Yes #148 x 108 mm (ø5 7/8 inches x 4 3/8 inches) Approx. 800 g (1 lb 12 cz) JATE Technical standard (LAN) UL2044, IEC60950-1 (CB) VCCI (Closs A), FCC (Closs A), DC (Class A)
Starting Temperature Storage Temperature Operating Humidity Storage Humidity Grandal Resistant Dimensions (W x H x D) Mass	-20 °C to +60 °C (-4°F to +140°F) 20% to 80% 20% to 95% Yes gal 48 x 108 mm (a5 7/8 inches x 4 3/8 inches) Approx.800 g (1 lb 12 oz) JAIE Technical standard (JAN) UI2044, IECoG950-1 (CB) VCCI (Class A), FCC (Class A) (C Class A) Emission: FINS5022 (Class A) + ENS0130-4
tarting Temperature torage Temperature perating Humidity torage Humidity andal Resistant Jimensions (W x H x D) dass	20° Cto +60°C (4°F to +140°F) 20% to 80% 20% to 95% Yes ø148 x 108 mm (ø5 7/8 inches x 4 3/8 inches) Approx.800 g (1 b 12 oz) JAFE Technicol standard (JAN) U204 Lic660950-1 (CB) VCCI (Closs A), FCC (Closs A), IC (Closs A) Emission: ENS5022 (Closs A) + ENS5024
tarting Temperature torage Temperature perating Humidity torage Humidity andal Resistant imensions (W x H x D) Tass afety Regulations	20°C to +60°C (-4°F to +140°F) 20% to 80% 20% to 80% 20% to 80% 9148 x 108 mm (ø5 7/8 inches x 4 3/8 inches) Approx. 800 g (1 lb 12 cz) JAF Erechnical standard (JAN) Ul2044, IEC60950-1 (CB) VCCI (Closs A), FCC (Closs A) Emission: FNS5022 (Closs A) + EN50130-4 Immunity: ENS5022 (Closs A) + EN50130-4 Emission: FNS5022 (Closs A) + EN50130-4 Emission: FNS5022 (Closs A) + EN50204
tarting Temperature torage Temperature perating Humidity torage Humidity andal Resistant Jimensions (W x H x D) dass	20° Cto +60°C (4°F to +140°F) 20% to 80% 20% to 95% Yes ø148 x 108 mm (ø5 7/8 inches x 4 3/8 inches) Approx.800 g (1 b 12 oz) JAFE Technicol standard (JAN) U204 Lic660950-1 (CB) VCCI (Closs A), FCC (Closs A), IC (Closs A) Emission: ENS5022 (Closs A) + ENS5024



DIMENSIONS





Unit: mm (inches)

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