

# Vandal-resistant Mini Dome 720p/30fps Camera Powered by IPELA ENGINE EX™ Technology

- Maximum resolution of 1280 x 1024 pixels with the Exmor<sup>™</sup> CMOS sensor
- Three simultaneous video streams
- Extremely Wide Dynamic Range to 130dB achieved with View-DR technology
- New video analytics functions including face detection and object removal/left behind
- 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 and 0.04 lx in B/W (50 IRE @ 1/30 sec)
- 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 features such as a View-DR, XDNR™, and DEPA™ Advanced technologies
- 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



Actual Images

- 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 Analytics to trigger an alarm based on user-defined rules
- IK10-rated vandal-resistant feature to protect the camera from destructive behaviors
- SD memory card slot for an on-board recording capability<sup>1</sup>

 XDNR (eXcellent Dynamic Noise Reduction) technology for clear images with virtually no motion blur under low illumination



Actual Images

- True D/N (Day/Night) function to switch to Day or Night mode depending on the light level
- · Built-in HTML viewer compatible with most Smartphones
- Easy Focus allows installer/user to focus the camera remotely using a PC or locally
- Easy Zoom allows installer/user to change field of view locally or remotely using a PC
- $^{\circ}$  Powered by either PoE (IEEE 802.3af-compliant), AC 24 V  $\pm 20\%$  , or DC 12 V  $\pm 10\%$  for easy installation
- ONVIF<sup>TM</sup> (Open Network Video Interface Forum)
   Profile S conformance software that ensures
   greater interoperability and more flexibility in
   building multiple-vendor systems



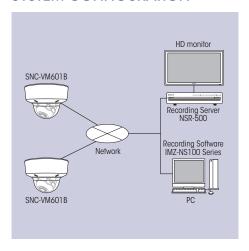
- VBR (variable bitrate) or CBR (constant bitrate) encoding format selectable to correspond with various network conditions
- Easy initial network settings with supplied SNC Easy IP Setup Guide application
- Image Stabilizer to help minimize the effect of camera shake or vibration for less blurry images
- Data recorded on an SD memory card (sold separately) 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). The on-board recording function, the intelligent motion detection function and the tamper alarm function cannot be used simultaneously.



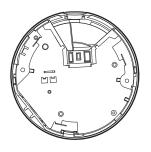
## **SPECIFICATIONS**

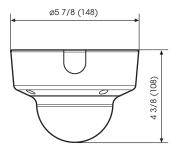
Camera	SNC-VM601B
Image Sensor	1/3-type progressive scan Exmor CMOS
Image Sensor (Number of Effective Pixels)	
Signal System	NTSC color system
Minimum Illumination (50 IRE)	Color: 0.05 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
MINIMUM HIGHINGHON (50 IKE)	B/W: 0.04 k (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
Minimum III (20 IDE)	
Minimum Illumination (30 IRE)	Color: 0.03 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
	B/W: 0.02 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
Dynamic Range	Equivalent to 130 dB with View-DR technology
S/N Ratio	More than 50 dB (Gain 0 dB)
Gain	Auto
Shutter Speed	1/1 s to 1/10000 s
Sync System	Internal synchronization
Exposure Control	Exposure compensation, AGC, Shutter speed, Iris
White Balance	ATW, ATW-PRO, Fluorescent lamp, Mercury lamp, Sodium vapor lamp, Metal halide lamp, White LED, One push WB, Manual
Lens	Built-in vari-focal lens
Powered Zoom	Yes (Easy Zoom)
Zoom Ratio	Optical zoom 3x, Digital zoom 2x
Powered Focus	Yes (Easy Focus)
Horizontal Viewing Angle	93.0° to 31.6°
Vertical Viewing Angle	50.6° to 17.8°
Focal Length	f = 3.0 mm to 9.0 mm
F-Number	F1.2 (Wide), F2.1 (Tele)
Minimum Object Distance	300 mm
Horizontal Resolution	600 TV lines (analog video) *2
Preset Position	8
Tour	5
Camera Features	
Day/Night	Yes
Wide-D	Yes (View-DR)
Image Enhancement	Visibility Enhancer (VE)
Noise Reduction	XDNR technology
	Yes *4
Image Stabilizer	iep .
Image	
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 288,
	320 x 240 (H.264, JPEG)
Video Compression Format	H.264 (High/Main/Baseline Profile), JPEG
Codec Streaming Capability	Triple Streaming *1, CBR/VBR (selectable)
Maximum Frame Rate	H.264: 30 fps (1280 x 1024)
	JPEG: 30 fps (1280 x 1024)
Audio	, (
Audio Compression Format	G.711/G.726/AAC (16 kHz, 48 kHz)
	C.711/C.72G/WG (10 KIE, 40 KIE)
Scene Analytics	Van
Intelligent Motion Detection	Yes Yes
Face Detection	Yes *3
Rule-based Filter	DEPA Advanced
Network	
Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SMTP, IPv6 *3, HTTPS, SNMP (MIB-2)
	V (D (I D) 40
	Yes (Profile S) *3
ONVIF Conformance	Yes (Profile S) *3 20
ONVIF Conformance Number of Clients	20
ONVIF Conformance Number of Clients Authentication	
ONVIF Conformance Number of Clients Authentication Interface	20 IEEE 802.1X
ONVIF Conformance Number of Clients Authentication Interface Analog Video Output	20 IEEE 802.1X  BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative
ONVIF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output	20 IEEE 802.1X BNC x1, 1.0 Vp.p, 75 Ω, unbalance, sync negative Phono jack x1
ONVIF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input	20 IEEE 802.1X  BNC x1, 1, 0 Vp-p, 75 Ω, unbalance, sync negative Phono jack x1 Mini jack (monaural)
ONVIF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Unput	20 IEEE 802.1X  BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative Phono jack x1 Mini jack (monaural) Mini jack (monaural), Maximum output level: 1 Vrms
ONVIF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Output Network Port	20 IEEE 802.1X  BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) Mini jack (monaural), Maximum output level: 1 Vrms 108ASE-17/108ASE-17 (R3-45)
ONVIF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Unput	20 IEEE 802.1X  BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative Phono jack x1 Mini jack (monaural) Mini jack (monaural), Maximum output level: 1 Vrms
ONVIF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Output Network Port Sensor Input	20 IEEE 802.1X  BNC x1, 1.0 Vp-p.75 Ω, unbalance, sync negative Phono jack x1 Mini jack (monaural) Mini jack (monaural), Maximum output level: 1 Vrms 10BASE-T/1 00BASE-TX (RJ-45) x 2, make contact, break contact
ONNIF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Input Line Output Network Port Sensor Input Alarm Output	20 IEEE 802.1X  BNC x1, 1.0 Vp-p.75 Ω, unbalance, sync negative Phono jack x1 Mini jack (monaural) Mini jack (mona
ONVIF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Output Network Port Sensor Input Alarm Output Microphone Input	20 IEEE 802.1X  BNC x1, 1.0 Vp-p. 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural)  x 2. make contact, treak contact  x 2. 24 V AC/DC, 1.4 (mechanical relay outputs electrically isolated from the camera) Mini jack (monaural)
ONNIF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Output Network Port Sensor Input Alarm Output Microphone Input Card Slots	20 IEEE 802.1X  BNC x1, 1.0 Vp-p.75 Ω, unbalance, sync negative Phono jack x1 Mini jack (monaural) Mini jack (mona
ONVIF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Input Line Output Network Port Sensor Input Alarm Output Microphone Input Card Silots System Requirements	20 IEEE 802.1X  BNC x1, 1.0 Vp-p.75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) Mini jack (monaural), Maximum output level: 1 Vrms 108ASE-17/100BASE-17 (RJ-45) x 2, make contact, break contact x 2, 24 V ACDC, 1.4 (mechanical relay outputs electrically isolated from the camera)  Mini jack (monaural) SD Card x 1
ONNIF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Input Line Output Network Port Sensor Input Alarm Output Microphone Input Card Slots	20  IEEE 802.1X  BNC x1, 1. 0Vp-p, 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) X 2, 24 V AC/DC, 1 A (mechanical relay outputs electrically isolated from the camera) Mini jack (monaural) SD Card x 1  Windows® XP (32 bit) Professional Edition
ONVIF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Input Line Output Network Port Sensor Input Alarm Output Microphone Input Card Silots System Requirements	20 IEEE 802.1X  BNC x1, 1.0 Vp-p.75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) Mini jack (monaural), Moximum output level: 1 Vrms 108AS-17/1008AS-17 (R3-45) x2, make contact, break contact x2, 24 V ACDC. 14 (mechanical relay outputs electrically isolated from the camera) Mini jack (monaural) SD Card x 1  Windows® XP (32 bit) Professional Edition Windows Vista® (32 bit) Ultimate, Business Edition
ONUF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Output Line Output Line Output Line Output Line Output Line Output Card Stots System Requirements Operating System	20 IEEE 802.1X  BNC x1, 1.0 Vp-p. 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) x2, 24 V AC/DC, 1.4 (mechanical relay outputs electrically isolated from the camera) Mini jack (monaural) SD Card x 1  Windows® XP (32 bit) Professional Edition Windows Vista® (32 bit) Ultimate, Business Edition Windows Vista® (32 bit) Ultimate, Business Edition Windows 7 (32/64 bit) Ultimate, Publissional Edition
ONMF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Input Line Output Network Port Sensor Input Alarm Output Microphone Input Card Slots System Requirements Operating System	20 IEEE 802.1X  BINC x1, 1.0 Vp-p. 75 Ω, unbalance, sync negative Phono jack x1 Mini jack (monaural) So 2, 24 V kD/DC, 14 (mechanical relay outputs electrically isolated from the camera) Mini jack (monaural) So Card x 1  Windows "XP (32 bit) Professional Edition Windows "XIsta" (32 bit) Ultimate, Business Edition Windows "XIsta" (32 bit) Ultimate, Professional Edition Windows "XIsta" (32 bit) Ultimate, Professional Edition Windows "XIsta" (32 bit) Ultimate, Professional Edition
ONUF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Output Network Port Sensor Input Alarm Output Microphone Input Card Slots System Requirements Operating System Processor	20 IEEE 802.1X  BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) X 2, ankle contact. Ireak contact X 2, 2.4 V AC/DC, 1.4 (mechanical relay outputs electrically isolated from the camera) Mini jack (monaural) SD Card x 1  Windows* XP (32 bit) Professional Edition Windows V Islam* (32 bit) Ultimate, Business Edition Windows 7, (32/64 bit) Ultimate, Professional Edition Intel Core I7 2.8 GHz or higher 2 6 Bor ormer
ONNIF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Output Network Port Sensor Input Alarm Output Microphone Input Card Slots System Requirements Operating System	20 IEEE 802.1X  BNC x1, 1.0 Vp-p.75 Ω, unbalance, sync negative Phono jack x1 Mini jack (monaural) Solo 2, and contact, treak contact x 2, 24 V AC/DC. 1 A (mechanical relay outputs electrically isolated from the camera) Mini jack (monaural) SS Card x 1  Windows® XP (32 bit) Professional Edition Windows V (32 bit) Ultimate, Business Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Intel Core 17 2.8 GHz or higher 2 GB or more Microsoft Internet Explorer® Ver. 7.0, Ver. 8.0, Ver. 9.0
ONUF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Output Network Port Sensor Input Alarm Output Microphone Input Card Slots System Requirements Operating System Processor	20 IEEE 802.1X  BNC x1, 1.0 Vp-p. 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) SD Card x 1  Windows® XP (32 bil) Professional Edition Windows Vista® (32 bil) Ultimate, Business Edition Windows S (32/64 bil) Ultimate, Professional Edition Mindows T (35/64 bil) Ultimate, Professional Edition Mindows T (35/64 bil) Ultimate, Professional Edition Mindows T (35/64 bil) There will be the professional Edition Mindows T (35/64 bil) Ultimate, Professional Edition Mindows T (35/64 bil) There will be the professional Edition Mindows T (35/64 bi
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ONUF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Output Line Output Line Output Line Output Alarm Output Line Output Alarm Output Alarm Output Alarm Output Alarm Output Output Alarm Output Card Slots System Requirements Operating System Processor Web Browser General	20 IEEE 802.1X  BNC x1, 1.0 Vp-p. 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) SD Card x 1  Windows® XP (32 bil) Professional Edition Windows Vista® (32 bil) Ultimate, Business Edition Windows S (32/64 bil) Ultimate, Professional Edition Mindows T (35/64 bil) Ultimate, Professional Edition Mindows T (35/64 bil) Ultimate, Professional Edition Mindows T (35/64 bil) There will be the professional Edition Mindows T (35/64 bil) Ultimate, Professional Edition Mindows T (35/64 bil) There will be the professional Edition Mindows T (35/64 bi
ONNIE Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Output Network Port Sensor Input Alarm Output Microphone Input Card Slots System Requirements Operating System Processor Memory Web Browser	20 IEEE 802.1X  BINC x1, 1. OVp-p, 75 Ω, unbalance, sync negative Phono jack x1 Mini jack (monaural) Solope (solope (
ONUF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Output Alarm Output Alarm Output Microphone Input Card Slots System Requirements Operating System Processor Memory Web Browser  Ceneral Power Requirements Power Requirements Power Consumption	IEEE 802.1X  BNC x1, 1.0 Vp-p. 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) Mini jack (monau
ONNIE Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Input Line Output Network Port Sensor Input Alarm Output Microphone Input Card Stots System Requirements Operating Enwise Web Browser  General Power Requirements Power Consumption Operating Imperature	20 IEEE 802.1X  BINC x1, 1.0 Vp-p.75 Ω, unbalance, sync negative Phono jack x1 Mini jack (monaural), Maximum output level: 1 Vrms 10BASE-T/10BASE-TX (RJ-45) x2, make contact, levek contact x2, 24 V AC/DC. 1 A (mechanical relay outputs electrically isolated from the camera) Mini jack (monaural) SD Card x 1  Windows® XP (32 bit) Professional Edition Windows® XP (32 bit) Ultimate, Business Edition Windows 7 (32/64 bit) Ultimate, Business Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Intel Core 17 2.8 GHz or higher 1 Ed Core 17 2.8 GHz or higher Intel Core 17 2.8 GHz or higher Intel Core 17 2.4 GHz or higher Intel Core 17 2.4 GHz or higher Intercore 17 2.5 GHz or higher Intercore 17 2.5 GHz or higher Intercore 17 2.5 GHz or higher Intercore 18 GHz or higher Intercore 18 2.5 GHz or higher Intercore 19 2.5 GHz or hig
ONMF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Input Line Output Network Port Sensor Input Alarm Output Microphone Input Card Slots System Requirements Operating System Processor Memory Web Browser  Ceneral Power Requirements Power Consumption Operating Temperature Storting Temperature	IEEE 802.1X  BINC x1, 1.0 Vp-p. 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaurat) SD Card x 1  Windows® XP (32 bit) Professional Edition Windows Vista® (32 bit) Ultimate, Business Edition Windows Vista® (32 bit) Ultimate, Professional Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Minel Core it 2.8 GHz or higher 2 GB or more Microsoft Internet Explorer® Ver. 7.0, Ver. 8.0, Ver. 9.0 Firefoto® Ver. 4.0 (Plug-in free viewer only) Sodar® Ver. 4.0 (Plug-in free viewer only) PoS system (IEEE 802.3 of compliant), DC 12 V ± 10%, AC 24 V ± 20% 6.0 W max. 14°F to 122°F (-10°C to ±50°C) 32°F to 122°F (-10°C to ±50°C)
ONNIF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Output Alarm Output Microphone Input Card Slots System Requirements Operating System Processor Web Browser  Ceneral Power Requirements Power Consumption Operating Temperature Storing Temperature Storing Temperature Storing Temperature Storing Temperature Storing Temperature	IEEE 802.1X  BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural), Mini jack (monaural)  x 2, make contact, break contact  x 2, 24 V AC/DC, 1 A (mechanical relay outputs electrically isolated from the camera) Mini jack (monaural)  SD Card x 1  Windows "XP (32 bit) Professional Edition Windows Visión (32 bit) Ultimate, Business Edition Windows 10 (32/64 bit) Ultimate, Professional Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Intel Core I7 2.8 GHz or higher  2 GB or more  Microsoft Internet Explorer* Ver. 7.0, Ver. 8.0, Ver. 9.0 Firefox* eve. 3.5 (Plug-in free viewer only) Safari* Ver. 4.0 (Plug-in free viewer only)  PoE system (IEEE 802.3af compliant), DC 12 V ± 10%, AC 24 V ± 20%  6.0 W max.  14*F to 122*F (-10*C to +50*C)  32*F to 122*F (10*C to 50*C)  4*F to +140°T, 20*C to +50*C)
ONMF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Input Line Output Network Port Sensor Input Alarm Output Microphone Input Card Slots System Requirements Operating System Processor Memory Web Browser  General Power Requirements Power Consumption Operating Imperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Operating Temperature Storage Temperature Operating Temperature	IEEE 802.1X  BNC x1, 1. OVp-p. 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) Solope 1, 2, 24 V ApCDe. 14 (mechanical relay outputs electrically isolated from the camera) Mini jack (monaural) SD Card x 1  Windows® XP (32 bit) Professional Edition Windows® XP (32 bit) Ultimate, Business Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Intel Core 17 2.8 GHz or higher 2 CB or more Microsoft Internet Explorer® Ver. 7. O. Ver. 8.0, Ver. 9.0 Firefox® Ver. 3.5 (Plug-in free viewer only) Satar® Ver. 4.0 (Plug-in free viewer only) PoE system (IEEE 802.3af compliant), DC 12 V ± 10%, AC 24 V ± 20% 6.0 W max. 14°F to 122°F (-10°C to +50°C) 32°F to 122°F (-10°C to +50°C) 32°F to 122°F (-10°C to +60°C) 20% to 80%
ONNIF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Output Alarm Output Microphone Input Card Slots System Requirements Operating System Processor Web Browser  Ceneral Power Requirements Power Consumption Operating Temperature Storing Temperature Storing Temperature Storing Temperature Storing Temperature Storing Temperature	IEEE 802.1X  BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural), Mini jack (monaural)  x 2, make contact, break contact  x 2, 24 V AC/DC, 1 A (mechanical relay outputs electrically isolated from the camera) Mini jack (monaural)  SD Card x 1  Windows "XP (32 bit) Professional Edition Windows Visión (32 bit) Ultimate, Business Edition Windows 10 (32/64 bit) Ultimate, Professional Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Intel Core I7 2.8 GHz or higher  2 GB or more  Microsoft Internet Explorer* Ver. 7.0, Ver. 8.0, Ver. 9.0 Firefox* eve. 3.5 (Plug-in free viewer only) Safari* Ver. 4.0 (Plug-in free viewer only)  PoE system (IEEE 802.3af compliant), DC 12 V ± 10%, AC 24 V ± 20%  6.0 W max.  14*F to 122*F (-10*C to +50*C)  32*F to 122*F (10*C to 50*C)  4*F to +140°T, 20*C to +50*C)
ONNIE Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Output Network Port Sensor Input Alarm Output Microphone Input Card Slots System Requirements Operating System Processor Memory Web Browser  General Power Requirements Power Consumption Operating Imperature Storage Temperature Storage Temperature Storage Temperature Operating Imperature Storage Temperature Operating Imperature Storage Temperature Operating Imperature Operating Immidity	IEEE 802.1X  BNC x1, 1. OVp-p. 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) Solope 1, 2, 24 V ApCDe. 14 (mechanical relay outputs electrically isolated from the camera) Mini jack (monaural) SD Card x 1  Windows® XP (32 bit) Professional Edition Windows® XP (32 bit) Ultimate, Business Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Intel Core 17 2.8 GHz or higher 2 CB or more Microsoft Internet Explorer® Ver. 7. O. Ver. 8.0, Ver. 9.0 Firefox® Ver. 3.5 (Plug-in free viewer only) Satar® Ver. 4.0 (Plug-in free viewer only) PoE system (IEEE 802.3af compliant), DC 12 V ± 10%, AC 24 V ± 20% 6.0 W max. 14°F to 122°F (-10°C to +50°C) 32°F to 122°F (-10°C to +50°C) 32°F to 122°F (-10°C to +60°C) 20% to 80%
ONNIE Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Input Line Input Line Output Network Port Sensor Input Alarm Output Microphone Input Card Siots System Requirements Operating System Processor Memory Web Browser  General Power Consumption Operating Temperature Storage Temperature Storage Temperature Storage Imperature Operating Imperatur	20 IEEE 802.1X  BINC x1, 1. OVp-p. 75 Ω, unbalance, sync negative Phono jack x1 Mini jack (monaural) Solate x2, 24 V kD/DC, 14 (mechanical relay outputs electrically isolated from the comera) Mini jack (monaural) Sol Card x 1  Sol Card x 1  Windows XP (32 bit) Professional Edition Windows XP (32 bit) Ultimate, Business Edition Windows XP (32 bit) Ultimate, Professional Edition Windows 7 (32/64 bit) Ultimate, Professional
ONNIE Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Output Output Alarm Output Alarm Output Microphone Input Card Slats System Requirements Operating System Processor Memory Web Browser  General Power Requirements Operating Temperature Storage Iemperature Storage Iemperature Storage Iemperature Operating Humidity Vandal Resistant Dimensions (W x H x D)	IEEE 802.1X  BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) SD card x 1  Windows® XP (32 bit) Professional Edition Windows Visto® (32 bit) Ultimate, Business Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Mindows 7 (32/64 bit) Ultimate, Professional Edition Mindows 7 (32/64 bit) Ultimate, Professional Edition Mindows 7 (82/64 bit) Ultimate, Professional Mindows 7 (82/64 bit) Unitmate, Professional Mindows 7 (82/64
ONUF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Output Alarm Output Alarm Output Microphone Input Card Slots System Requirements Operating System Processor Web Browser  General Power Requirements Power Consumption Operating Temperature Starting Temperature Storage Temperature Storage Imperature Operating Humidity Vandal Resistant Dimensions (W x H x D) Weight	IEEE 802.1X  BINC x1, 1.0 Vp-p.75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) Solica x2, 2x4 VxDCDC, 1x (mechanical relay outputs electrically isolated from the camera)  Mini jack (monaural) Solica x2, 2x4 VxDCDC, 1x (mechanical relay outputs electrically isolated from the camera)  Mini jack (monaural) Solica x1  Windows* 7x (32 bit) Professional Edition Windows 7x (32 bit) Ultimate, Business Edition Windows 7x (32 bit) Ultimate, Professional Edition Intel Core 17 2x 8 dits or higher 1x 10 core 1x
ONUF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Output Alarm Output Microphone Input Card Slots System Requirements Operating System Processor Memory Web Browser  Ceneral Power Requirements Operating Temperature Storage Iemperature Storage Iemperature Storage Iemperature Operating Humidity Vandal Resistant Undersity Operating Vandal Resistant Vandal Resistant Undersity Operating Vandal Resistant Undersity Operating Vandal Resistant Vandal Resistant Unimensions (W x H x D)	IEEE 802.1X  BINC x1, 1. OVp-p, 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) Mini jack (monaural), Moximum output level: 1 Vrms 100ASE-17/100BASE-TX (R3-45) x2, make contact, break contact x2, 24 V Ac/DC. 14 (mechanical relay outputs electrically isolated from the camera)  Mini jack (monaural) SD Card x 1  Windows® XP (32 bit) Professional Edition Windows® XP (32 bit) Ultimate, Business Edition Windows of (32/64 bit) Ultimate, Professional Edition Intel Core IT 2.8 GHz or higher 2 GB or more Microsoft Internet Explorer® Ver. 7.0. Ver. 8.0, Ver. 9.0 Firefors® Ver. 4.0 (Plug-in free viewer only) Solarin® Ver. 4.0 (Plug-in free viewer only) Foogle Chrome® Ver. 4.0 (Plug-in free viewer only) Solarin® Ver. 4.0 (Plug-in free viewer only)  PoE system (IEEE 802.3d compliant), DC 12 V ± 10%, AC 24 V ± 20% 6.0 W max. 14°F to 122°F (-10°C to +50°C) 32°F to 122°F (°C to 50°C) 47°F to +140°F (-20°C to +60°C) 20% to 80% 20% 10 95% Yes 85 7/8 inches x 4 3/8 inches (ø148 mm x 108 mm) Approx. 1 b 12 ac (800 g) JATE Technical standard (LMN)
ONUF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Output Alarm Output Alarm Output Microphone Input Card Slots System Requirements Operating System Processor Web Browser  General Power Requirements Power Consumption Operating Temperature Starting Temperature Storage Temperature Storage Imperature Operating Humidity Vandal Resistant Dimensions (W x H x D) Weight	IEEE 802.1X  BNC x1, 1. Vy-p-, 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) Mini jack (monau
ONUF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Output Alarm Output Alarm Output Microphone Input Card Slots System Requirements Operating System Processor Web Browser  General Power Requirements Power Consumption Operating Temperature Starting Temperature Storage Temperature Storage Imperature Operating Humidity Vandal Resistant Dimensions (W x H x D) Weight	IEEE 802.1X  BNC x1, 1. OVp-p. 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) Solope 1, 2, 24 V Ap/DC. 1 A (mechanical relay outputs electrically isolated from the camera) Mini jack (monaural) SD Card x 1  Windows® XP (32 bit) Professional Edition Windows® XP (32 bit) Ultimate, Business Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Intel Core 17 2.8 GHz or higher 2 0.8 or more Microsoft Internet Explore® Ver. 7. O. Ver. 8.0, Ver. 9.0 Firetox® Ver. 3.5 (Plug-in free viewer only) Satar® Ver. 4.0 (Plug-in free viewer only) Satar® Ver. 4.0 (Plug-in free viewer only) PoE system (IEEE 802.3d compliant), DC 12 V ± 10%, AC 24 V ± 20% 6.0 W max. 14*F to 12.2*F (-10*C to 4-50*C) 32*F to 12.2*F (-10*C to 4-50*C)
ONNIF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Input Line Output Network Port Sensor Input Alarm Output Microphone Input Card Slots System Requirements Processor Memory Web Browser  General Power Requirements Power Consumption Operating Femperature Storage Femperature Storage Imperature Storage Imperature Storage Imperature Operating Humidity Vandat Resistant Dimensions (W x H x D) Weight	IEEE 802.1X  BNC x1, 1.0 Vp-p. 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) Mindows "X (32 bit) Professional Edition Mindows S (32/64 bit) Ultimate, Business Edition Mindows 7 (32/64 bit) Ultimate, Professional Edition Mintel Core i7 2.8 GHz or higher 2 GB or more Microsoft Internet Explorer* Ver. 7.0, Ver. 8.0, Ver. 9.0 Firefox* Ver. 3.0 (Plug-in free viewer only) Safari* Ver. 4.0 (Plug-in free viewer only) Google Chrome* Ver. 4.0 (Plug-in free viewer only) Google Chrome* Ver. 4.0 (Plug-in free viewer only)  90E system (IEEE 802.3 of compilant), DC 12 V ± 10%, AC 24 V ± 20% 6.0 W max.  14°F to 12°F (-10°C to 50°C) -4°F to +140°F (-20°C to +60°C) 20% to 80% Ves  95.7/8 inches x 4 3/8 inches (ø148 mm x 108 mm) Approx. 1 lb 12 oz (800 g) JAIE Teichnical Istandard (LAN) LUZA44, IEC60950-1 (CB) VCD (Closs A), FCC (Closs A), FCNO(308 A) Emission: FNS5022 (Closs A) + ENSOI 30-4
ONUF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Output Alarm Output Alarm Output Microphone Input Card Slots System Requirements Operating System Processor Web Browser  General Power Requirements Power Consumption Operating Temperature Starting Temperature Storage Temperature Storage Imperature Operating Humidity Vandal Resistant Dimensions (W x H x D) Weight	IEEE 802.1X  BINC x1, 1. OVp-p. 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) S 2, 24 V ApCDC, 14 (mechanical relay outputs electrically isolated from the camera) Mini jack (monaural) SD Card x 1  Windows® XP (32 bit) Professional Edition Windows® XP (32 bit) Ultimate, Business Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Intel Core 17 2.8 GHz or higher 1 2,08 or more Microsoft Internet Explorer® Ver. 7.0, Ver. 8.0, Ver. 9.0 Firefor® Ver. 3.5 (Plug-in free viewer only) Safari® Ver. 4.0 (Plug-in free viewer only) Soaje Chrome® Ver. 4.0 (Plug-in free viewer only) PoE system (IEEE 802.3d compliant), DC 12 V ± 10%, AC 24 V ± 20% 6.0 W max. 14°F to 122°F (-10°C to +50°C) 32°F to 122°F (-10°C to +50°C) 32°F to 122°F (-10°C to +60°C) 20% to 80% 20% to 95% Ves  65 78 inches x 4 3/8 inches (a148 mm x 108 mm) Approx. 1 b1 2 oz (800 g) JAITE Technical standard (LAN) UL2044, IEC60950-1 (CB) VCCI (Class x), FCC (Class A), IC (Class A) Emission: ENS5022 (Class A), IC (Class A) Emission: ENS5022 (Class A), ENS5024
ONUF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Output Alarm Output Microphone Input Card Slots System Requirements Operating System  Processor Memory Web Browser  General Power Requirements Operating Temperature Storage Temperatur	IEEE 802.1X  BNC x1, 1. OVp-p. 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) SD Card x 1  Windows® XP (32 bit) Professional Edition Windows Vista® (32 bit) Ultimate, Business Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Hinel Core if 2.8 GHz or higher 2 GB or more Microsoft Internet Explorer® Ver. 7.0, Ver. 8.0, Ver. 9.0 Firefors® Ver. 4.0 (Plug-in free viewer only) Sodra® Ver. 4.0 (Plug-in free viewer only) Sodra® Ver. 4.0 (Plug-in free viewer only)  PoS system (IEEE 802.3d compliant), DC 12 V ± 10%, AC 24 V ± 20% 6.0 W max.  14°F to 122°F (-10°C to ±50°C) -4°F to 140°F (-20°C to ±60°C) -20% to 80% Ves 35 7/8 inches x 4 3/8 inches (a148 mm x 108 mm) Approx. 1 lb 12 ac (800 g) JAIF Technical standard (LNI) UL2044, IEC60950-1 (CB) VCD (Closs A), FCD (Closs A) + ENS5022 Emission: ENS5022 (Closs A) + ENS5024
ONNIF Conformance Number of Clients Authentication Interface Analog Video Output Analog Monitor Output Line Input Line Input Line Output Network Port Sensor Input Alarm Output Microphone Input Card Slots System Requirements Processor Memory Web Browser  General Power Requirements Power Consumption Operating Femperature Storage Femperature Storage Imperature Storage Imperature Storage Imperature Operating Humidity Vandat Resistant Dimensions (W x H x D) Weight	IEEE 802.1X  BINC x1, 1. OVp-p. 75 Ω, unbalance, sync negative Phono jack x1  Mini jack (monaural) S 2, 24 V ApCDC, 14 (mechanical relay outputs electrically isolated from the camera) Mini jack (monaural) SD Card x 1  Windows® XP (32 bit) Professional Edition Windows® XP (32 bit) Ultimate, Business Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Intel Core 17 2.8 GHz or higher 1 2,08 or more Microsoft Internet Explorer® Ver. 7.0, Ver. 8.0, Ver. 9.0 Firefor® Ver. 3.5 (Plug-in free viewer only) Safari® Ver. 4.0 (Plug-in free viewer only) Soaje Chrome® Ver. 4.0 (Plug-in free viewer only) PoE system (IEEE 802.3d compliant), DC 12 V ± 10%, AC 24 V ± 20% 6.0 W max. 14°F to 122°F (-10°C to +50°C) 32°F to 122°F (-10°C to +50°C) 32°F to 122°F (-10°C to +60°C) 20% to 80% 20% to 95% Ves  65 78 inches x 4 3/8 inches (a148 mm x 108 mm) Approx. 1 b1 2 oz (800 g) JAITE Technical standard (LAN) UL2044, IEC60950-1 (CB) VCCI (Class x), FCC (Class A), IC (Class A) Emission: ENS5022 (Class A), IC (Class A) Emission: ENS5022 (Class A), ENS5024

## SYSTEM CONFIGURATION



#### **DIMENSIONS**





Unit: inches (mm)

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<sup>\*1</sup> Triple streaming (any combination with DFEGH.264, including multiple streams of the same format)

\*2 Monitor display ratio 4:3 \*3 Version 1.4 or later \*4 Default setting: OFF