

**Technical Specifications**

**Full HD Box IP Camera**

FOR INTERNAL APPLICATIONS

- Full HD 1080p 30fps
- H.264 and MJPEG compression
- True Day/Night and WDR
- CS Mount
- Burnt-in Text, Video Motion Detection
- Embedded VCA Technology Video Analytics
- SD/SDHC memory card slot
- Power over Ethernet (IEEE 802.3af)



CAMERA	
<b>Model</b>	IPN1202HD-6241
<b>Image Sensor</b>	SONY EXMOR 1/2.9" 1080p CMOS
<b>Effective Pixels</b>	1920 x 1080
<b>Scanning System</b>	Progressive scanning
<b>AGC Control</b>	Auto
<b>Minimum Illumination</b>	Color: 0.5Lux / B/W : 0.001Lux (DSS ON)
<b>Lens Mount</b>	CS Mount
<b>Recommended Lens** (Optional)</b>	<b>AG3Z3112FCS-MPIR:</b> 3.1(w) – 8.0mm(t), 105.4° to 42.2°(horizontal AoV), F1.2, DC-iris <b>VZ3090MP-CS:</b> 3.0(w) – 9.0mm(t), 125.2° to 39.5°(horizontal AoV), F1.2, DC-iris
<b>Shutter Time</b>	1/10,000s to 1/2s
<b>Day &amp; Night</b>	True Day & Night (Removable IR-cut filter)
<b>Wide Dynamic Range</b>	Digital WDR
<b>Focus Assist</b>	Supported

VIDEO		
<b>Video Compression</b>	H.264 Baseline, Main, High profile(MPEG-4 Part 10/AVC), MJPEG(Motion JPEG)	
<b>Video Streaming</b>	Dual Stream, Configurable streams in H.264, MJPEG H.264: Controllable frame rate, bandwidth(VBR/CBR) MJPEG: Controllable frame rate, JPEG quality	
<b>Resolutions</b>	<b>16:9 mode</b>	1920 x 1080, 1280 x 720, 1120 x 630, 960 x 540, 800 x 450, 640 x 360, 480 x 270, 320 x 180
	<b>4:3 mode*</b>	SXGA(1280x960), XGA(1024x768), SVGA(800x600), PAL(720x576), NTSC(720x480), VGA(640x480), QVGA(320x240)
<b>Frame Rate</b>	H.264: Max 30fps in all resolution MJPEG: Max 30fps in all resolution	
<b>Image Settings</b>	Configurable brightness, contrast, saturation, sharpness	
<b>Image Orientation</b>	Flip / Mirror / Corridor Mode(-90°, +90°)	
<b>Noise Filter</b>	Supported (0 ~ 3)	
<b>Defogging*</b>	Supported	
<b>Smart Bitrate Control</b>	Supported (It works in VBR mode)	
<b>Exposure Adjustment</b>	+1.0, +0.6, +0.3, 0, -0.3, -0.6, -1.0 EV	

<b>White Balance</b>	ATW1 / ATW2 / Push / Manual
<b>Back Light Compensation</b>	On(possible to designate zone) / Off
<b>Flicker Control</b>	Normal, 50Hz, 60Hz
<b>DSS (Sens-up)</b>	2X ~ 16X
<b>Video Stabilization</b>	Supported
<b>Burnt-in Text</b>	Time stamp and text caption overlay
<b>Privacy Mask</b>	4 configurable regions
<b>Analogue Output</b>	NTSC / PAL

AUDIO	
<b>Audio Streaming</b>	Two-way
<b>Audio Compression</b>	G.711-uLaw
<b>Audio input / output</b>	Supported

NETWORK	
<b>Ethernet Standard</b>	10 / 100 Base-T
<b>IP</b>	IPv4, IPv6
<b>Protocol</b>	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, FTP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1, SRTP*, RTMP*
<b>Security</b>	HTTPS(SSL), IP Filtering, Multi-level access with password protection
<b>Users</b>	Live viewing for up to 10 clients

INTEGRATION	
<b>Application Programming Interface</b>	Software Development Kit(SDK) available
<b>ONVIF Compliance</b>	Profile S, Profile G
<b>Event Sources</b>	Sensor(DI); Alarm(DO); Video Motion Detection; Face Detection*; Tamper Detection; Video Content Analytics(VCA); Network Loss/Detect; Network Setting Change; Time(Recurrence/Schedule); Storage Error*
<b>Event Actions</b>	File upload: E-mail, FTP Notification: E-mail, FTP, HTTP, TCP Trigger-Alarm(DO) Recording Event Log Saving

\*Supported in FW V1.10.0.7 or the above

\*\*The recommended lens list is provided in order to deliver optimal image quality for the IPN1202HD. The use of the other lenses, which are not in the recommended list, on IPN1202HD may limit the resolution of the camera, creating poor image quality.

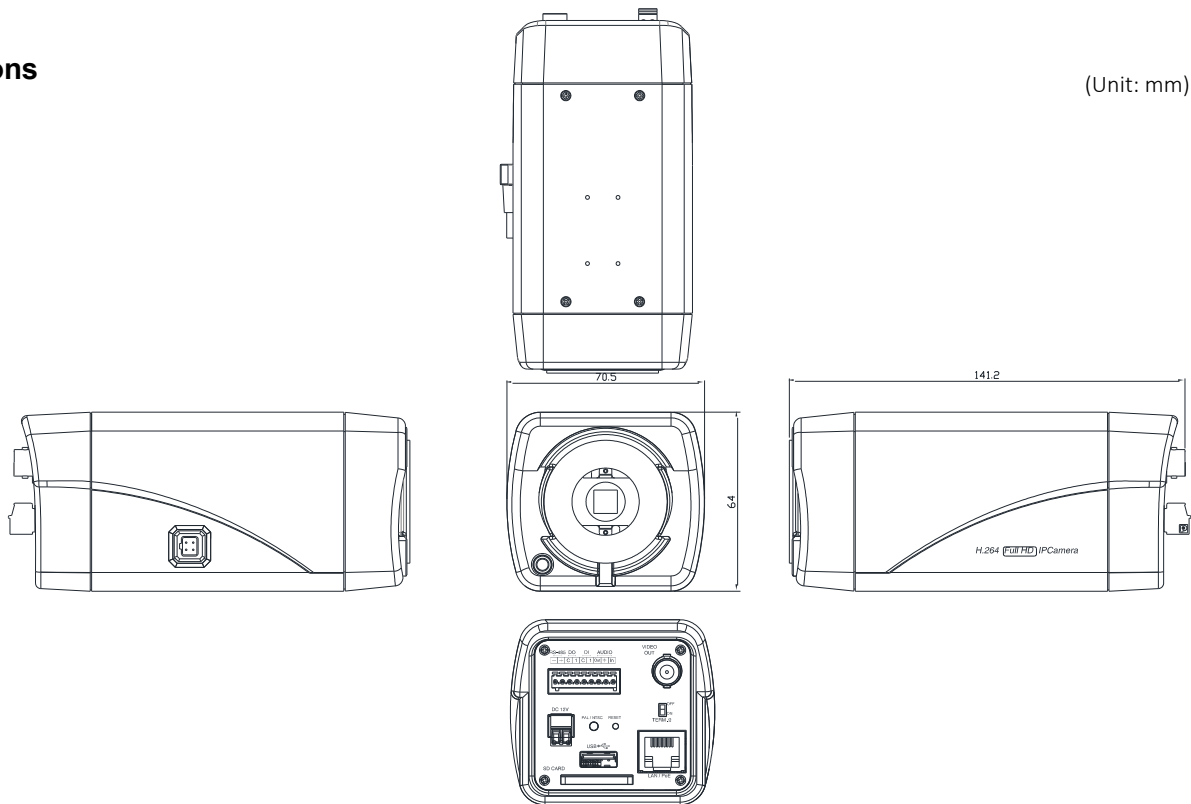
\*\*\*Class4 or higher SD cards are recommended for HD recordings.

**Technical Specifications**

<b>Event Metadata Streaming (RTSP/RTP)</b>	Video Motion Detection(MD); Video Content Analytics(VCA)	<b>VIDEO ANALYTICS</b>	
<b>GENERAL</b>		<b>Analytics Engine</b>	VCA Technology's advanced tracking algorithm with rich library of detection behaviors
<b>Material</b>	Aluminum Die-casting; Cool gray	<b>Detection Zones and Rules</b>	40 zones (Multi-segment Polygons and Lines) in total 60 rules in total
<b>External I/O Terminals</b>	1x Alarm In, 1x Alarm Out, 1x Data port(RS-485)	<b>Tamper Detection</b>	Supported
<b>Language on webpage</b>	Korean, English, Chinese	<b>Auto Tracking</b>	-
<b>Power Source / Consumption</b>	DC 12V, PoE / 6W @ DC 12V	<b>VCA Preset</b>	-
<b>Operating conditions</b>	Humidity up to 85% RH (non-condensing) [DC12V] 0°C ~ 50°C (32°F ~ 122°F); [PoE] 0°C ~ 45°C (32°F ~ 113°F)	<b>VIDEO ANALYTICS (Optional Features)</b>	
<b>Approvals</b>	FCC, CE, KC	<b>Detection Behavior</b>	Enter, Exit, Appear, Disappear, Stop, Direction, Dwell filter; Tailgating; Color Filter
<b>Weight</b>	470g (1.04 lbs)	<b>Logical Rules</b>	Extends standard rules to allow various combinations of the inputs
<b>Dimensions (W x H X D)</b>	70.5mm x 64mm x 141.2mm (2.8"x2.5"x5.6")	<b>3D Behavior</b>	Perspective Corrected Size and Speed Filters
<b>EDGE STORAGE</b>		<b>Object Classification</b>	Configured Max./Min. object sizes and Max./Min. speeds
<b>Storage</b>	1x microSD/microSDHC memory card slot (SD/SDHC up to 32GB, card not included)***	<b>People Tracking</b>	Tracks individuals separately among overlapped multiple people
<b>Recording Types</b>	Continuous Recording or Event Recording	<b>Counting Line Counting</b>	High accuracy people and vehicle counting 20 counters in total
<b>Continuous Recording</b>	Instant recording; Search & Download	<b>Counter Report</b>	Generates counter reports based on the counter database
<b>Event Recording</b>	Search of Event Logs; Playback; Download	<b>Heatmap Report*</b>	Shows relative crowd density of the 24 hour period (criterion: midnight)
		<b>Meta Data</b>	Plain XML Format

**Dimensions**

(Unit: mm)



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