

# Better Protection, Better Performance



12x Vandal-Resistant Network Dome Camera

## SNV-3120



The SNV-3120 is a true day/night vandal-resistant network dome camera with integrated IR-cut filter (ICR) and 12x optical zoom. It supports high resolution image capture up to 4CIF and real-time frame rate of 30(25 PAL) ips and multiple codecs (H.264, MPEG-4, and MJPEG) can be transmitted simultaneously allowing users to select a compression method which fits their purpose and network environment. The SNV-3120 also features Wide Dynamic Range (WDR) to provide perfect images in the most challenging lighting conditions and Digital Noise Reduction (DNR), which eliminates image noise in low light conditions to maximise available bandwidth and save space on the recording device.

- 12x optical, 16x digital Zoom
- High resolution of 4 CIF, 30(25) ips of frame rate
- H.264, MPEG-4 & MJPEG Multiple Encoding
- Day & Night (ICR), WDR
- Built-in SD memory card slot
- Digital Noise Reduction

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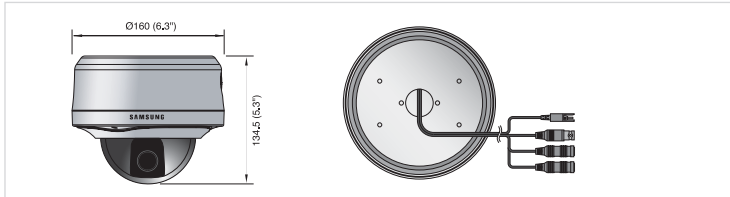


## Specifications

Camera		SNV-3120
<b>CAMERA TYPE</b>		
Color / B/W		Color
<b>IMAGE</b>		
Device		Ex-view HAD PS CCD
Size		1/4"
Scan		Progressive Scan (VPS on) (When WDR on, Interlaced Scan)
Pixels	Total	NTSC : 811 x 508 / PAL : 795 x 596
	Effective	NTSC : 768 x 494 / PAL : 752 x 582
<b>SCANNING</b>		
Horizontal	Internal Mode	NTSC : 15,734Hz / PAL : 15,625Hz
Frequency	Line lock Mode	NTSC : 15,750Hz / PAL : 15,625Hz
Vertical	Internal Mode	NTSC : 59.94Hz / PAL : 50Hz
Frequency	Line lock Mode	NTSC : 60Hz / PAL : 50Hz
<b>MIN. SCENE Illumination</b>		
Color	Sens Off	0.36Lux (15 IRE) / 0.72Lux (30 IRE) / 1.2Lux (50 IRE)
	Sens-up 512x	0.0007Lux (15 IRE) / 0.0014Lux (30 IRE) / 0.0023Lux (50 IRE)
B/W	Sens Off	0.036Lux (15 IRE) / 0.072Lux (30 IRE) / 0.12Lux (50 IRE)
	Sens-up 512x	0.00007Lux (15 IRE) / 0.00014Lux (30 IRE) / 0.00023Lux (50 IRE)
<b>FUNCTIONS</b>		
Number of Privacy Zone		12ea
Day & Night		Color / B/W / Auto (ICR)
Extended Dynamic Range (XDR)		Off / Low / Medium / High
Wide Dynamic Range		NTSC : On / Off (128x) / PAL : On / Off (160x)
Digital Zoom		1x ~ 16x (0.1x step)
Electronic Shutter Speed		NTSC : 1/60 ~ 1/10Ksec / PAL : 1/50 ~ 1/10Ksec
Flickerless		On / Off
Sens-up (Frame Integration)		2x ~ 512x
Backlight Compensation		On / Off (Area setting)
AGC		On / Off (Max.level setting)
White Balance		ATW1/ATW2/AWC/Manual (ATW1 : 2,500 ~ 9,500°K, ATW2 : 2,000~10,000°K)
Digital Noise Reduction		Off / Low / Medium / High (Adaptive 3D + 2D)
Digital Image Stabilization		On / Off
Zoom Preset		256ea
<b>RESOLUTION</b>		
Horizontal / Vertical		600TV lines / 350TV lines
Video Output		VBS 1.0Vp-p
S/N Ratio		52dB
<b>LENS</b>		
Focal Length		3.69 ~ 44.32mm
Zoom Ratio		12x
Aperture Ratio		F1.65(Wide) / F2.01(Tele)
Angular Field of View		H : 54.44°(Wide) ~ 4.64°(Tele) / V : 41.42°(Wide) ~ 3.52°(Tele)
Lens Drive Type		AI (DC)
Mount Type		Board type
<b>ENVIRONMENTAL</b>		
Operating Temperature		-40°C ~ +50°C (Built-in fan/heater)
<b>CONDITIONS</b>		
Operating Humidity		less than 90% (Waterproof)
<b>POWER</b>		
Power Requirement		Dual (12V DC / 24V AC), PoE
Power Consumption		Max. 8W (Heater off) / Max. 11W (Heater on)
LED Indicator		Yes
<b>PHYSICAL SPECIFICATION</b>		
Dimensions (WxH)		160 x 134.5mm (6.3" x 5.3")
Weight		1.5Kg (3.31 lb)
Color / Case		White grey / Aluminum (IP66)

## Dimensions

Unit : mm (inch)



The Eco mark represents Samsung Techwin's will to create environment-friendly products, and indicates that the product satisfies the EU RoHS Directive.

Network		SNV-3120
<b>NETWORK BOARD</b>		
OS		Embedded Linux
Hardware	Flash memory	128M byte
	RAM	256M byte
	Ethernet	RJ-45 (10/100 Base-T)
	Video Out	VBS 1.0Vp-p
	Audio	Line in / Line out
	SD Memory Slot	Yes (SD / SDHC)
PoE	Yes (IEEE802.3af Class 2)	
Alarm	Input / Output	1ea / 1ea (Relay)
<b>VIDEO</b>		
Compression		H.264 / MPEG-4 / MJPEG Multiple codec
Resolution	4CIF	NTSC : 704 x 480 / PAL : 704 x 576
	VGA	640 x 480
	CIF	NTSC : 352 x 240 / PAL : 352 x 288
Max. Frame Rate		30(25)fps at all resolutions
H.264 / MPEG-4 Quality		Compression : 5~100 (20 steps), Target bitrate (CBR mode only) : 1~10 level
MJPEG Quality		1 ~ 20 level
Bitrate Control		H.264 / MPEG-4 : VBR / CBR, MJPEG : VBR
Streaming		H.264 / MPEG-4/ MJPEG multiple streaming(Individual streaming simultaneously)
<b>AUDIO</b>		
Compression		G.711 u-law
Bi-Directional Communication		Yes
<b>Motion Detection</b>		
Intelligent Motion Detection		Motion detection, Moved / Fixed
<b>PROTOCOL</b>		
IP		IPv4 / IPv6
Network	IPV4	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, ONVIF
Protocol	IPV6	TCP/IP, HTTP, HTTPS, SSL, DHCP
Streaming		Unicast, Multicast
Security		HTTPS (SSL) login authentication, Digest login authentication, IP address filtering, User access log
DDNS		Supporting samsung DDNS and public DDNS services
<b>CONNECTION</b>		
Maximum User Access		Max. 10 users at Unicast mode, Max. 20 users at Multicast mode
User Access	Administrator	Full control privilege
Level	Guest	Live monitoring only
	Additional User	Configurable privilege individually
<b>EVENT MANAGEMENT</b>		
Alarm Input		Pre/Post alarm image buffering, Image recording : SD memory
Intelligent Video Detection		Event notification, Alarm out activation, Zoom preset move
Schedule		JPEG Image transfer : FTP, Image recording : SD memory
<b>WEB BROWSER VIEWER (Default)</b>		
Supported OS		Windows XP, VISTA 7, Mac OS
Supported Browser		Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Safari
PTZ Control		Zoom control only
Plug-in		MS SilverLight 4.0
UI Language		English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese
S/W Upgrade		Using web viewer UI
<b>VIDEO PLAYER</b>		
RTP / RTSP Streaming		Quicktime, VLC player
Video Management Software		Samsung CMS S/W, 3rd party S/W application
Application IP Installation		IP installer application for all Samsung IP devices

Design and specifications are subject to change without notice.



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