



A&E Specifications

SNP-3120 High Performance Network PTZ Dome

Version 1.0

1. GENERAL

- a. All equipment and materials used shall be standard components that are regularly manufactured and used in the manufacturer's system.
- b. All systems and components shall have been thoroughly tested and proven in actual use.
- c. All systems and components shall be provided with an explicit manufacturer warranty.

2. ELECTRICAL

- a. Input Voltage 24V AC $\pm 20\%$ / PoE (IEEE 802.3af)
- b. Power Consumption Maximum 17Watts (37W Heater On SNP-3120V & SNP-3120VH)

3. VIDEO

- a. Imaging Device $\frac{1}{4}$ " Ex-view HAD PS CCD
- b. Total Pixels 795 (H) x 596 (V)
- c. Effective Pixels 752 (H) x 582 (V)
- d. Scanning System Progressive Scan (VPS on) (WDR on, Interlaced Scan)
- e. Resolution 600TVL
- f. Minimum Illumination 0.36/0.036Lux (F1.2, 50IRE) 0.0023Lux (50IRE)
- g. Signal to Noise Ratio Sens-up 512x
- h. Video Output 52dB
CVBS : 1.0Vp-p / 75 Ω

4. LENS

- a. Focal Length 3.69 – 44.32mm
- b. Zoom Ratio x 12 Optical
1x – 16x (0.1x steps)
- c. Aperture Ratio F1.65 (W) – F2.01 (T)
- d. Viewing Angle
 - i. Tele 54.44°(H) x 4.64°(V)
 - ii. Wide 41.42°(H) x 3.52°(V)
- e. Lens Drive Type AI(DC)
- f. Mount Type Board Type

5. PAN / TILT

- a. Speed
 - i. Manual Pan / Tilt 0.05 - 120°Sec
 - ii. Preset Pan / Tilt 650°Sec
- b. Range Panning 0 - 360° / Tilting 190°
- c. Number of Groups x 6
- d. Number of Preset x 255
- e. Number of Trace x 4

6. REMOTE CONTROL

RS-485, Coaxial control (SEC)

7. OPERATIONAL

- a. On Screen Display
 - i. Supported Languages English, French, Germany, Spanish, Italian
Chinese, Korean, Russian, Japanese
Swedish, Danish, Portuguese
- b. Camera Title On / Off
- c. Electronic Shutter Speed Auto (1/50 – 1/10,000sec)



	Anti-flicker On / Off Manual
d. Day / Night Mode	True day / night with removable Infra Red cut filter
i. Automatic	Colour only (day) / Monochrome only (night)
ii. Manual	On (Area Setting)
e. Backlight Compensation	Off
f. eXtended Dynamic Range	Low Medium High Off
g. Privacy Masking	12 Programmable Zones
h. Sens-up (Frame Integration)	On (Selectable 1 – 60K) Off
i. Digital Noise Reduction	Low, Medium, High 2D & 3D Adjustable Off
j. Gain Control	On Off
k. Zoom Preset	256
l. White Balance	Auto Tracing White (ATW1) 2,500 – 9,500°K Auto Tracing White (ATW2) 2,000 – 10,000°K Manual White Balance (MWB)
8. NETWORK BOARD	
a. Operating System	Embedded Linux
b. Hardware	
i. Flash memory	128M byte
ii. RAM	256M byte
iii. Ethernet	RJ-45 (10/100BASE-T)
iv. Audio	Line in/ Line out
v. SD Memory Slot	Yes (SD/SDHC) 32GB
vi. PoE	Yes (IEEE802.3af Class 2)
9. VIDEO	
a. Compression	H.264, MPEG-4 selectable / M JPEG Multi-codec
b. Resolution	
i. 4CIF	704 x 480
ii. VGA	640 x 480
iii. CIF	352 x 288
c. Max Frame Rate	30(25)fps at all resolutions
d. H.264 / MPEG4 Quality	Compression: 5 – 100 (20 steps) Target Bit Rate (CBR mode only) 1 – 10 levels
e. MJPEG Quality	1 – 20 Levels
f. Encode Rate	Up to 22.5fps @ SXGA Up to 30fps, HD/SVGA/VGA/QVGA
g. Bitrate Control	H.264 / MPEG4 : VBR / CBR MJPEG : VBR
h. Streaming	H.264 / MPEG-4 / MJPEG multiple individual simultaneous streaming
10. INTELLIGENT MOTION DETECTION	Motion Detection, Moved, Fixed
11. PROTOCOL	
a. IP	IPv4 / IPv6

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b. Network Protocol	
i. 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
ii. IPv6	TCP/IP, HTTP, HTTPS, SSL, DHCP
c. Streaming	Unicast, Multicast
d. Security	HTTPS(SSL) Login Authentication, Digest Login Authentication, IP Address Filtering, User access Log
e. DDNS	Support Samsung DDNS & Public DDNS services
12. CONNECTION	
a. Maximum User Access	
i. Unicast Mode	10 Users
ii. Multicast Mode	20 Users
b. User Access Level	
i. Administrator	Full Control Privilege
ii. Guest	Live Monitoring only
iii. Additional User	Individually Configurable
13. EVENT MANAGEMENT	
a. Alarm Input	Pre/Post Alarm Image Buffering, Image Recording: SD memory, Event Notification, Alarm out Activation
b. Intelligent Motion Detection	Pre/Post Alarm Image Buffering, Image Recording: SD memory, Event Notification, Alarm out Activation
c. Schedule	JPEG Image transfer: FTP, Image Recording: SD memory, Alarm out Activation
14. WEB BROWSER VIEWER	
a. Supported OS	Windows XP, VISTA, 7, Linux, MAC OS
b. Supported Browser	Internet Explorer 6.0 or Higher, Firefox, Google Chrome, Safari, Opera
c. PTZ Control	Zoom control only
d. Plug-in	MS SilverLight 4.0
e. Multi-Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese
f. S/W upgrade	Using Web viewer UI
15. VIDEO PLAYER	
a. RTP/RTSP streaming	Quicktime, VLC player
b. Video Management Software	Samsung CMS S/W, 3 rd party S/W application
c. Application IP Installation	IP installer application for all Samsung IP devices
16. INTERFACE	
a. Video Output	1 BNC
b. Audio	Bi-directional
i. Input	1 Line in, 1Vpp,
ii. Output	1 Line out, 1Vpp
iii. Compression	G.711 a-law

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c. Alarm	
i. Inputs	Terminal 1 input, NO/NC
ii. Outputs	Terminal 1 output, NO/NC
iii. Remote Notification	Via e-mail or FTP
d. Connections	
i. Ethernet	RJ-45 10/100 Base-T
ii. OSD Control Interface	RS-485
e. SD(SDHC) Memory	Stored event image, Back up
17. ENVIRONMENTAL	
a. Operating	
i. Temperature	-40°C - +50°C (SNP-3120) -40°C - +50°C (Fan/Heater Built in)
ii. Humidity	0% - 90% RH
b. Ingress Protection	IP66 (SNP-3120V & SNP-3120VH)
18. MECHANICAL	
a. Dimensions :	168 x 174ømm (SNP-3120) / 162 x 165ømm (SNP-3120V) / 206 x 200ømm (SNP-3120VH)
b. Weight:	1.7Kg (SNP-3120) / 2Kg (SNP-3120V) / 2.5Kg (SNP-3120VH)
c. Material	Ivory Plastic (SNP-3120) Aluminium (SNP-3120V & SNP-3120VH)
d. Colour	Ivory
19. WARRANTY	3 years, parts and labour

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