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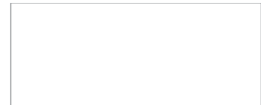
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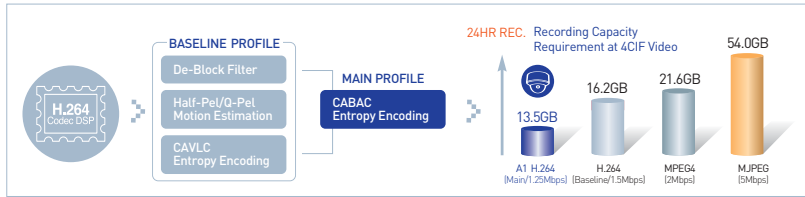
# H.264 A1 Network Camera

SNB-2000  
SNB-3000  
SND-3080(F)  
SNV-3080



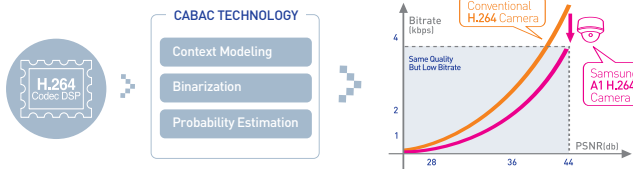
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# High Performance H.264 Compression



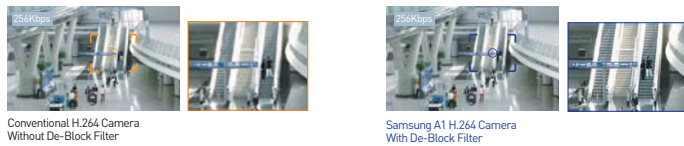
## CABAC Entropy coding Technology

Samsung A1 Network Camera has adopted the H.264 CABAC Entropy Coding Technology, so the H.264 performance is more enhanced than normal H.264 compression methods. With CABAC technology, Samsung network camera will provide a significant benefit to network transmitting with far less bandwidth usage.



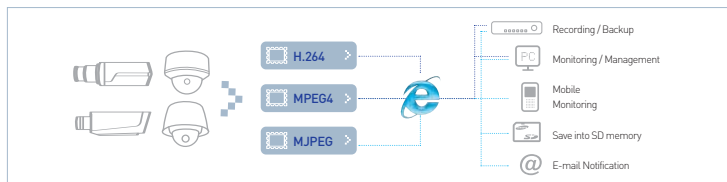
## De-block Filter

The De-Block Filter technology allows Samsung A1 Network Cameras to guarantee perfect image quality when transmitting low bit rate video through a narrow bandwidth network, by minimizing the block noise that occurs when highly compressed video is sent over a low speed bandwidth network.



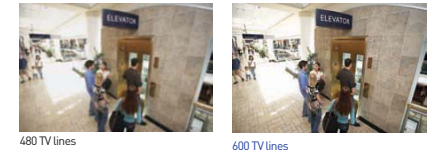
## Multi-Codect & Multi-Usage

The Multi Streaming feature means that H.264 or MPEG4 and MJPEG can be transmitted simultaneously, enabling real-time monitoring, high-quality or high efficiency recording, mobile monitoring, E-mail notification and saving to SD memory.



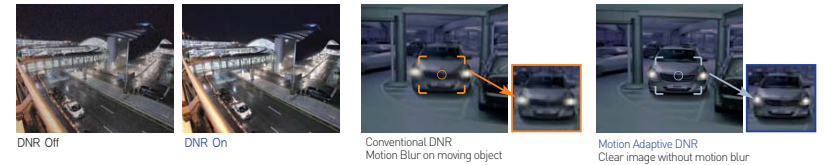
## Super High-Resolution-600TVL

Samsung A1 network cameras offer the best quality digital image by using Samsung Techwin's industry leading video/image processing technology.



## Motion Adaptive Digital Noise Reduction

A1 DNR technology utilizes Motion Adaptive DNR, this combines an adaptive 2D filter to reduce noise in the brightness of the image and an adaptive 3D filter that reduces the noise caused by movement greatly reducing motion blur.



## eXtended Dynamic Range (XDR)

Samsung A1 Network Camera provides XDR [eXtended Dynamic Range] technology to increase the level of visible detail in the dark areas, while maintaining image clarity and detail in the brighter portions of the image.



## Progressive Scan Network Camera

Samsung A1 Network Camera's progressive scan technology allows for the capture of noiseless, high-quality video of moving subjects.



# SNB-2000

1/3" H.264 Network Camera



- Real-time 30(25)fps at High Resolution(4CIF)
- H.264, MPEG-4 & MJPEG Multiple Encoding
- Progressive Scan
- XDR (eXtended Dynamic Range)
- Motion Adaptive DNR (Dynamic Noise Reduction)
- Privacy Mask (12ea)
- DIS (Digital Image Stabilizer)
- DDNS support, HTTPS security support
- IPv4/IPv6 support
- Standard RTP/RTSP support
- PoE (Power over Ethernet)

# SNB-3000

1/3" H.264 WDR Network Camera



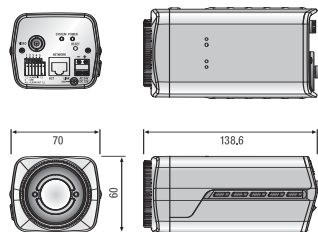
- Real-time 30(25)fps at High Resolution(4CIF)
- H.264, MPEG-4 & MJPEG Multiple Encoding
- Progressive Scan
- Day & Night Function(IR Cut Filter)
- WDR (Wide Dynamic Range)
- Bi-directional Audio Support
- SD Memory Slot for Internal Recording
- Intelligent Video Analytics
- XDR (eXtended Dynamic Range)
- Motion Adaptive DNR (Dynamic Noise Reduction)
- Privacy Mask (12ea)
- DIS (Digital Image Stabilizer)
- PoE (Power over Ethernet)

## Technical Specifications

Camera	SNB-2000	
Camera Type	Color / B/W	Color
Device	Super HAD PS CCD	Super HAD PS CCD
Size	1/3"	1/3"
Image	Scan	Progressive Scan
	Effective	NTSC: 811 x 508 / PAL: 795 x 596
Scanning	Horizontal	NTSC: 15.734Hz
	Vertical	PAL: 15.625Hz
Min. Scene Illumination	Color	0.12Lux (15 IRE) / 0.2Lux (30 IRE) / 0.4Lux (60 IRE)
	B/W	0.00023Lux (15 IRE) / 0.0005Lux (30 IRE) / 0.0008Lux (50 IRE)
Functions	Electronic Shutter Speed	1x ~ 1/6 (0.1x step)
	Backlight Compensation	On / Off (Area setting)
Resolution	Horizontal / Vertical	600TV lines / 350TV lines
	S/N Ratio	52dB

Network	SNB-2000	
OS	Flash memory	Embedded Linux
	RAM	256M byte
Network Board	Ethernet	RJ-45 (10/100 Base-T)
	Video Out	VBS 1.0Vp-p
Alarm	Input / Output	2ea / 2ea
	Compression	H.264 / MPEG-4 / MJPEG Multiple code: (H.264 / MPEG-4 selectable) simultaneous dual streaming
Video	Resolution	640 x 480
	Max. Frame Rate	NTSC: 352 x 240 / PAL: 352 x 288
Audio	Compression	N/A
	Bi-Directional Communication	Yes
Intelligent Video Analytics	IP	IPv4 / IPv6
	Protocol	TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP
Event Management	Alarm Input	JPEG image transfer: FTP, JPEG image recording; SD memory
	Schedule	Windows XP, VISTA, 7
Web Browser	Supported Browser	Internet Explorer 6.0 or higher
	UI Language	English, French, German, Spanish, Italian, Chinese, Korean
Video Player	RTP / RTSP Streaming	Quicktime, VLC player
	Video Management Software	Samsung CMS S/W, 3rd party S/W application
SDK	HTTP API	CGI Command
	RTSP/RTSP API	ActiveX SDK

## Dimensions

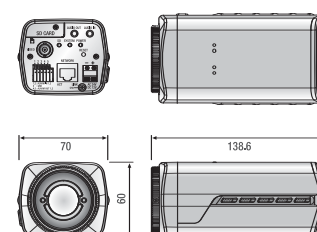


## Technical Specifications

Camera	SNB-3000	
Camera Type	Color / B/W	Color
Device	Super HAD PS CCD	Super HAD PS CCD
Size	1/3"	1/3"
Image	Scan	Progressive Scan (When WDR on, Interlaced scan)
	Effective	NTSC: 811 x 508 / PAL: 795 x 596
Scanning	Horizontal	NTSC: 15.734Hz
	Vertical	PAL: 15.625Hz
Min. Scene Illumination	Color	0.12Lux (15 IRE) / 0.2Lux (30 IRE) / 0.4Lux (60 IRE)
	B/W	0.00023Lux (15 IRE) / 0.0005Lux (30 IRE) / 0.0008Lux (50 IRE)
Functions	Electronic Shutter Speed	1x ~ 1/6 (0.1x step)
	Backlight Compensation	On / Off (Area setting)
Resolution	Horizontal / Vertical	600TV lines / 350TV lines
	S/N Ratio	52dB

Network	SNB-3000	
OS	Flash memory	Embedded Linux
	RAM	256M byte
Network Board	Ethernet	RJ-45 (10/100 Base-T)
	Video Out	VBS 1.0Vp-p
Alarm	Input / Output	2ea / 2ea
	Compression	H.264 / MPEG-4 / MJPEG Multiple code: (H.264 / MPEG-4 selectable) simultaneous dual stream
Video	Resolution	640 x 480
	Max. Frame Rate	NTSC: 352 x 240 / PAL: 352 x 288
Audio	Compression	N/A
	Bi-Directional Communication	Yes
Intelligent Video Analytics	IP	IPv4 / IPv6
	Protocol	TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP
Event Management	Alarm Input	JPEG image transfer: FTP, JPEG image recording; SD memory
	Schedule	Windows XP, VISTA, 7
Web Browser	Supported Browser	Internet Explorer 6.0 or higher
	UI Language	English, French, German, Spanish, Italian, Chinese, Korean
Video Player	RTP / RTSP Streaming	Quicktime, VLC player
	Video Management Software	Samsung CMS S/W, 3rd party S/W application
SDK	HTTP API	CGI Command
	RTSP/RTSP API	ActiveX SDK

## Dimensions



# SND-3080(F)

## H.264 WDR Network Dome Camera



- 2.8-11mm Vari-Focal Lens
- Real-time 30(25)fps at High Resolution(4CIF)
- H.264, MPEG-4 & MJPEG Multiple Encoding
- Progressive Scan
- WDR (Wide Dynamic Range)
- SD Memory Slot for Internal Recording
- XDR (eXtended Dynamic Range)
- Motion Adaptive DNR (Dynamic Noise Reduction)
- Privacy Mask (12ea)
- DIS (Digital Image Stabilizer)
- PoE (Power over Ethernet)

# SNV-3080

## H.264 Anti-Vandal WDR Network Dome Camera

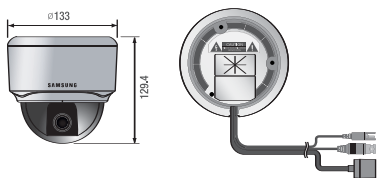


- 2.8-11mm Vari-Focal Lens
- Fan/Heater built-in for Outdoor Installation
- Real-time 30(25)fps at High Resolution(4CIF)
- H.264, MPEG-4 & MJPEG Multiple Encoding
- Progressive Scan
- WDR (Wide Dynamic Range)
- Day & Night Function (IR Cut Filter)
- Bi-directional Audio Support
- SD Memory Slot for Internal Recording
- Intelligent Video Analytics
- XDR (eXtended Dynamic Range)
- Motion Adaptive DNR (Dynamic Noise Reduction)
- Privacy Mask (12ea)
- DIS (Digital Image Stabilizer)
- PoE (Power over Ethernet)
- IP66

## Technical Specifications

Camera		SND-3080/3080F
Camera Type	Color / B/W	Color
	Device	Super HAD PS CCD
Image	Size	1/3"
	Scan	Progressive Scan
	Total Effective	NTSC : 811 x 508 / PAL : 795 x 596
	Pixels	NTSC : 768 x 494 / PAL : 752 x 582
Scanning	Horizontal Frequency	NTSC : 15.734Hz
	Internal Mode	PAL : 15.825Hz
	Vertical Frequency	NTSC : 59.94Hz
Min. Scene Illumination	Color	PAL : 50lx
	Sens Off	0.12Lux (15 IRE) / 0.2Lux (30 IRE) / 0.4Lux (50 IRE)
	Sens-up 512x	0.0002Lux (15 IRE) / 0.0005Lux (30 IRE) / 0.0008Lux (50 IRE)
	Sens-up 512x	0.0002Lux (15 IRE) / 0.0005Lux (30 IRE) / 0.0008Lux (50 IRE)
Functions	Number of Privacy Zone	12ea (Polygonal method)
	Day & Night	Color / B/W / Auto (Soft method)
	extended Dynamic Range (XDR)	On / Off (Level setting)
	Wide Dynamic Range	NTSC : On / Off (128x) / PAL : On / Off (160x)
	Digital Zoom	1x ~ 16x (0.1x step)
	PIP	On / Off
	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
	Digital Noise Reduction	On / Off (Adaptive 3D ~ 20)
Digital Image Stabilization	On / Off	
Camera ID	On / Off (Max. 54ea / 2 line)	
Etc. Function	Detail, Reverse (HV), Posi/Nega, PIP	
Resolution	600TV lines / 350TV lines	
Video Output	VBS 1.0Vp-p	
S/N Ratio	52dB	
Lens	Focal Length	2.8 ~ 11mm
	Zoom Ratio	3.9x
	Aperture Ratio	F1.2
Environmental Conditions	Angular Field of View	H: 94.6°(Wide) ~ 28.8°(Tele) / V: 68.4°(Wide) ~ 21.6°(Tele)
	Lens Drive Type	AI (DC)
Power	Mount Type	Board type
	Power Requirement	Operating Temperature: -10C ~ +50C (+14F ~ +122F)
Physical Specification	Dimensions (WxH)	Operating Humidity: 0% ~ 90% RH
	Weight	Power Requirement: Dual (12V DC / 24V AC), PoE
Weight / Case		Max. 5W
Weight / Case		LED Indicator
Weight / Case		Max. 5W
Weight / Case		Yes
Weight / Case		Yes
Weight / Case		Yes

## Dimensions

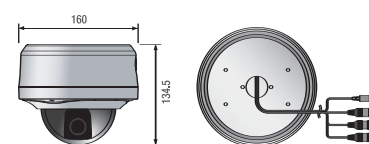


Network		SND-3080/3080F
OS		Embedded Linux
		32M byte
Network Board	Flash memory	256M byte
	RAM	256M byte
	Ethernet	RJ-45 (10/100 Base-T)
	Video Out	VBS 1.0Vp-p
Alarm	Audio	N/A
	SD Memory Slot	Yes (SD / SDHC)
	PoE	Yes (IEEE802.3af)
	Input / Output	2ea / 2ea
Video	Compression	H.264 / MPEG-4 / MJPEG Multiple code (H.264 / MPEG-4 selectable/simultaneous dual streaming)
	4CIF	NTSC : 704 x 480 / PAL : 704 x 576
	Color / B/W	640 x 480
	CIF	NTSC : 352 x 240 / PAL : 352 x 288
Audio	Max. Frame Rate	NTSC : 30, 15, 8, 3, 1fps / PAL : 25, 13, 6, 3, 1fps
	Quality	1 ~ 10 level (CBR / VBR)
OSD	Camera Control and Adjustment	OSD menu on video (Menu enter/exit, move by Web UI)
	Sensitivity and Area Setting	High / Medium / Low
Protocol	IP	IPv4 / IPv6
	Network Protocol	TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP
	IPV6	PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3 (MIB-2), ARP, DNS, DDNS
	Streaming	TCP/IP, HTTP, HTTPS, SSL, DHCP
Connection	Security	Unicast, Multicast
	DDNS	HTTSPS (SSL) login authentication, Digest login authentication, IP address filtering
Event Management	Maximum User Access	Max. 10 users at Unicast mode, Max. 20 users at Multicast mode
	User Access Level	Administrator: Live monitoring, Alarm I/O control, OSD menu control, Set up Operator: Live monitoring, Alarm I/O control User: Live monitoring
Web Browser	Alarm Input	JPEG image transfer / FTP, JPEG image recording / SD memory
	Motion Detection	Notification : notify to viewer or by E-mail (one image attachment), Alarm out
Video Management Software	Schedule	JPEG image transfer / FTP, E-mail, JPEG image recording / SD memory
	Application	Supported OS: Windows XP, VISTA, 7 Supported Browser: Internet Explorer 6.0 or higher Viewer (Default) Language: English, French, German, Spanish, Italian, Chinese, Korean S/W Upgrade: Using web viewer UI Quicktime, VLC player
SDK	HTTP API	Provides functionality to control cameras and set/retrieve internal parameter values
	ActiveX SDK	Get JPEG image or MJPEG stream, Alarm in/out control, RTP header, RTSP command document

## Technical Specifications

Camera		SNV-3080
Camera Type	Color / B/W	Color
	Device	Super HAD PS CCD
Image	Size	1/3"
	Scan	Progressive Scan (When WDR on: Interlaced Scan)
	Total Effective	NTSC : 811 x 508 / PAL : 795 x 596
	Pixels	NTSC : 768 x 494 / PAL : 752 x 582
Scanning	Horizontal Frequency	NTSC : 15.734Hz
	Internal Mode	PAL : 15.825Hz
	Vertical Frequency	NTSC : 59.94Hz
Min. Scene Illumination	Color	PAL : 50lx
	Sens Off	0.12Lux (15 IRE) / 0.2Lux (30 IRE) / 0.4Lux (50 IRE)
	Sens-up 512x	0.0002Lux (15 IRE) / 0.0005Lux (30 IRE) / 0.0008Lux (50 IRE)
	Sens-up 512x	0.0002Lux (15 IRE) / 0.0005Lux (30 IRE) / 0.0008Lux (50 IRE)
Functions	Number of Privacy Zone	12ea (4-point polygonal method)
	Day & Night	Color / B/W / Auto (ICR)
	extended Dynamic Range (XDR)	On / Off (Level setting)
	Wide Dynamic Range	NTSC : On / Off (128x) / PAL : On / Off (160x)
	Digital Zoom	1x ~ 16x (0.1x step)
	PIP	On / Off
	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 ~ 9,500K, ATW2: 2,000 ~ 10,000K)
	Digital Noise Reduction	On / Off (Adaptive 3D ~ 20)
Digital Image Stabilization	On / Off	
Camera ID	On / Off (Max. 54ea / 2 line)	
Etc. Function	Detail, Reverse (HV), Posi/Nega, PIP	
Resolution	600TV lines / 350TV lines	
Video Output	VBS 1.0Vp-p	
S/N Ratio	52dB	
Lens	Focal Length	2.8 ~ 11mm
	Zoom Ratio	3.9x
	Aperture Ratio	F1.2
Environmental Conditions	Angular Field of View	H: 94.6°(Wide) ~ 28.8°(Tele) / V: 68.4°(Wide) ~ 21.6°(Tele)
	Lens Drive Type	AI (DC)
Power	Mount Type	Board type
	Power Requirement	Operating Temperature: -40C ~ +50C (Built-in fan/heater)
Physical Specification	Dimensions (WxH)	Operating Humidity: 0% ~ 90% RH (Waterproof)
	Weight	Power Requirement: Dual (12V DC / 24V AC), PoE
Weight / Case		Max. 5W (Heater off) / Max. 11W (Heater on)
Weight / Case		LED Indicator
Weight / Case		Yes
Weight / Case		Yes
Weight / Case		Yes

## Dimensions



Network		SNV-3080
OS		Embedded Linux
		32M byte
Network Board	Flash memory	256M byte
	RAM	256M byte
	Ethernet	RJ-45 (10/100 Base-T)
	Video Out	VBS 1.0Vp-p
Alarm	Audio	N/A
	SD Memory Slot	Yes (SD / SDHC)
	PoE	Yes (IEEE802.3af)
	Input / Output	2ea / 2ea
Video	Compression	H.264 / MPEG-4 / MJPEG Multiple code (H.264 / MPEG-4 selectable/simultaneous dual streaming)
	4CIF	NTSC : 704 x 480 / PAL : 704 x 576
	Color / B/W	640 x 480
	CIF	NTSC : 352 x 240 / PAL : 352 x 288
Audio	Max. Frame Rate	NTSC : 30, 15, 8, 3, 1fps / PAL : 25, 13, 6, 3, 1fps
	Quality	1 ~ 10 level (CBR / VBR)
OSD	Camera Control and Adjustment	OSD menu on video (Menu enter/exit, move by Web UI)
	Sensitivity and Area Setting	Scene change, Virtual line, Enter/Exit, Appear/Disappear
Protocol	IP	IPv4 / IPv6
	Network Protocol	TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP
	IPV6	PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3 (MIB-2), ARP, DNS, DDNS
	Streaming	TCP/IP, HTTP, HTTPS, SSL, DHCP
Connection	Security	Unicast, Multicast
	DDNS	HTTSPS (SSL) login authentication, Digest login authentication, IP address filtering
Event Management	Maximum User Access	Max. 10 users at Unicast mode, Max. 20 users at Multicast mode
	User Access Level	Administrator: Live monitoring, Alarm I/O control, OSD menu control, Set up Operator: Live monitoring, Alarm I/O control User: Live monitoring
Web Browser	Alarm Input	JPEG image transfer / FTP, JPEG image recording / SD memory
	Motion Detection	Notification : notify to viewer or by E-mail (one image attachment), Alarm out
Video Management Software	Schedule	JPEG image transfer / FTP, E-mail, JPEG image recording / SD memory
	Application	Supported OS: Windows XP, VISTA, 7 Supported Browser: Internet Explorer 6.0 or higher Viewer (Default) Language: English, French, German, Spanish, Italian, Chinese, Korean S/W Upgrade: Using web viewer UI Quicktime, VLC player
SDK	HTTP API	Provides functionality to control cameras and set/retrieve internal parameter values
	ActiveX SDK	Get JPEG image or MJPEG stream, Alarm in/out control, RTP header, RTSP command document