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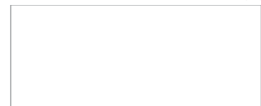
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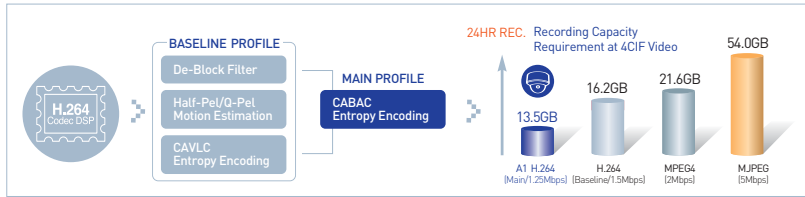
H.264 A1 Network Camera

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



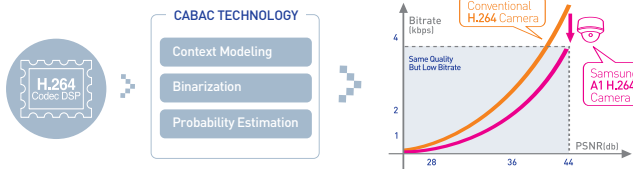
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High Performance H.264 Compression



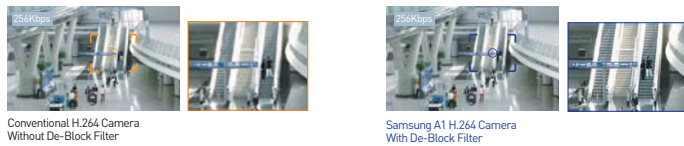
CABAC Entropy coding Technology

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.



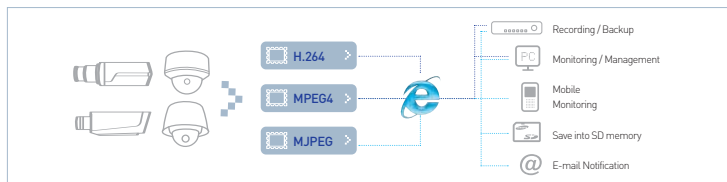
De-block Filter

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.



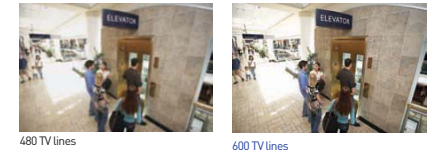
Multi-Codect & Multi-Usage

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.



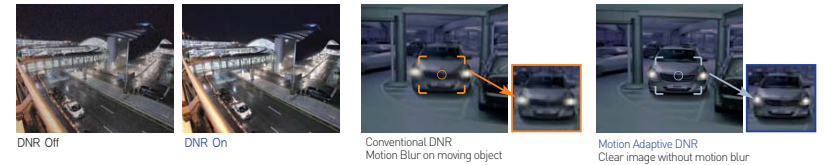
Super High-Resolution-600TVL

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

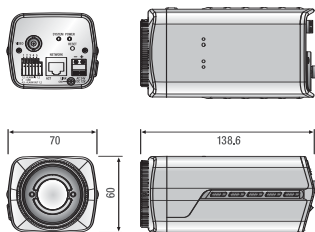


- Real-time 30(25)fps at High Resolution(4CIF)
- H.264, MPEG-4 & MJPEG Multiple Encoding
- Progressive Scan
- Day & Night Function(IR Cut Filter)
- WDR (Wide Dynamic Range)
- Bi-directional Audio Support
- SD Memory Slot for Internal Recording
- Intelligent Video Analytics
- XDR (eXtended Dynamic Range)
- 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 Pixels	NTSC : 811 x 508 / PAL : 795 x 596
Scanning	Horizontal Frequency	NTSC : 15.734Hz
	Vertical Frequency	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 (60 IRE)
Functions	Electronic Shutter Speed	1x ~ 1/6 (0.1x step)
	Backlight Compensation	On / Off (Area setting)
	White Balance	ATW1 / ATW2 / AWB / 3200K* / 5600K*
	Digital Noise Reduction	On / Off (Adaptive 3D + 2D)
	Digital Image Stabilization	On / Off
	Camera ID	On / Off (Max. 54ea / 2 line)
	Etc. Function	Detail, Reverse I/IV, Post/Nega
	Resolution	600TV lines / 350TV lines
	Video Output	VBS 1.0Vp-p
	S/N Ratio	52dB
Lens	Mount Type	CS / C
	Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F)
Environmental Conditions	Operating Humidity	0% ~ 90% RH
	Power Requirement	Dual (2V DC / 24V AC), PoE
Power	Power Consumption	Max. 7W
	LED Indicator	Yes
Physical Specification	Dimensions (WxHxD)	72 x 60 x 138.6mm (2.83" x 2.36" x 5.46")
	Weight	300g (0.66 lb)
	Color / Case	Silver / Metal

Dimensions

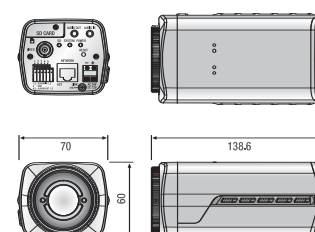


Network	SNB-2000	
OS	Embedded Linux	Embedded Linux
	Flash memory	32M byte
RAM	256M byte	256M byte
	Ethernet	RJ-45 (10/100 Base-T)
Network Board	Video Out	VBS 1.0Vp-p
	Audio	N/A
Alarm	SD Memory Slot	N/A
	PoE	Yes (IEEE802.3af)
Input / Output	2ea / 2ea	2ea / 2ea
	Compression	H.264 / MPEG-4 / MJPEG Multiple code (H.264 / MPEG-4 selectable) simultaneous dual streaming
Video	Resolution	640 x 480
	Quality	NTSC : 352 x 240 / PAL : 352 x 288
Max. Frame Rate	NTSC	30, 15, 8, 3, 1fps / PAL : 25, 13, 6, 3, 1fps
	Quality	1 ~ 10 level (CBR / VBR)
Audio	Compression	N/A
	Bi-Directional Communication	N/A
OSD	Camera Control and Adjustment	OSD menu on video (Menu enter/exit, move by Web UI)
Motion Detection	Sensitivity and Area Setting	High / Medium / Low
Intelligent Video Analytics	IP	IPv4 / IPv6
	Protocol	TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP
Streaming	IPV6	PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3 (MIB-2), ARP, DNS, DDNS
	Manual / AI (VIDEO / DC)	Manual / RTSP, HTTPS, SSL, DHCP
Security	Unicast, Multicast	Unicast, Multicast
	HTTPS (SSL) login authentication, Digest login authentication, IP address filtering	HTTPS (SSL) login authentication, Digest login authentication, IP address filtering
DDNS	Supporting samsung DDNS and public DDNS services	Supporting samsung DDNS and public DDNS services
	Maximum User Access	Max. 10 users at Unicast mode, Max. 20 users at Multicast mode
Connection	User Access Level	Administrator: Live monitoring, Alarm I/O control, OSD menu control, Set up
	Operator	Live monitoring, Alarm I/O control
Event Management	Alarm Input	Live monitoring
	Motion Detection	JPEG image transfer: FTP, JPEG image recording; SD memory
Schedule	Schedule	Notification: notify to viewer or by E-mail (one image attachment)
	Alarm out	Alarm out
Supported OS	Windows XP, VISTA, 7	Windows XP, VISTA, 7
	Internet Explorer 6.0 or higher	Internet Explorer 6.0 or higher
Web Browser	Supported Browser	English, French, German, Spanish, Italian, Chinese, Korean
	UI Language	Using web viewer UI
Video Player	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
	CGI Command	Provides functionality to control cameras and set/retrieve internal parameter values
SDK	RTSP API	Get JPEG image or MJPEG stream, Alarm in/out control
	ActiveX SDK	RTSP header, RTSP command document

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 Pixels	NTSC : 811 x 508 / PAL : 795 x 596
Scanning	Horizontal Frequency	NTSC : 15.734Hz
	Vertical Frequency	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 (60 IRE)
Functions	Electronic Shutter Speed	1x ~ 1/6 (0.1x step)
	Backlight Compensation	On / Off (Level setting)
	White Balance	ATW1 / ATW2 / AWB / 3200K* / 5600K*
	Digital Noise Reduction	On / Off (Adaptive 3D + 2D)
	Digital Image Stabilization	On / Off
	Camera ID	On / Off (Max. 54ea / 2 line)
	Etc. Function	Detail, Reverse I/IV, Post/Nega
	Resolution	600TV lines / 350TV lines
	Video Output	VBS 1.0Vp-p
	S/N Ratio	52dB
Lens	Mount Type	CS / C
	Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F)
Environmental Conditions	Operating Humidity	0% ~ 90% RH
	Power Requirement	Dual (2V DC / 24V AC), PoE
Power	Power Consumption	Max. 8W
	LED Indicator	Yes
Physical Specification	Dimensions (WxHxD)	72 x 60 x 138.6mm (2.83" x 2.36" x 5.46")
	Weight	300g (0.66 lb)
	Color / Case	Silver / Metal

Dimensions



Network	SNB-3000	
OS	Embedded Linux	Embedded Linux
	Flash memory	32M byte
RAM	256M byte	256M byte
	Ethernet	RJ-45 (10/100 Base-T)
Network Board	Video Out	VBS 1.0Vp-p
	Audio	Line In / Line out
Alarm	SD Memory Slot	Yes (SD / SDHC)
	PoE	Yes (IEEE802.3af)
Input / Output	2ea / 2ea	2ea / 2ea
	Compression	H.264 / MPEG-4 / MJPEG Multiple code (H.264 / MPEG-4 selectable) simultaneous dual stream
Video	Resolution	640 x 480
	Quality	NTSC : 352 x 240 / PAL : 352 x 288
Max. Frame Rate	NTSC	30, 15, 8, 3, 1fps / PAL : 25, 13, 6, 3, 1fps
	Quality	1 ~ 10 level (CBR / VBR)
Audio	Compression	G.711
	Bi-Directional Communication	Yes
OSD	Camera Control and Adjustment	OSD menu on video (Menu enter/exit, move by Web UI)
Intelligent Video Analytics	Scene change, Virtual line, Enter/Exit, Appear/Disappear	Scene change, Virtual line, Enter/Exit, Appear/Disappear
	IP	IPv4 / IPv6
Protocol	Network Protocol	TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP
	Streaming	PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3 (MIB-2), ARP, DNS, DDNS
Security	Unicast, Multicast	Unicast, Multicast
	HTTPS (SSL) login authentication, Digest login authentication, IP address filtering	HTTPS (SSL) login authentication, Digest login authentication, IP address filtering
DDNS	Supporting samsung DDNS and public DDNS services	Supporting samsung DDNS and public DDNS services
	Maximum User Access	Max. 10 users at Unicast mode, Max. 20 users at Multicast mode
Connection	User Access Level	Administrator: Live monitoring, Alarm I/O control, OSD menu control, Set up
	Operator	Live monitoring, Alarm I/O control
Event Management	Alarm Input	Live monitoring
	Schedule	JPEG image transfer: FTP, JPEG image recording; SD memory
Supported OS	Windows XP, VISTA, 7	Windows XP, VISTA, 7
	Internet Explorer 6.0 or higher	Internet Explorer 6.0 or higher
Web Browser	Supported Browser	English, French, German, Spanish, Italian, Chinese, Korean
	UI Language	Using web viewer UI
Video Player	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
	CGI Command	Provides functionality to control cameras and set/retrieve internal parameter values
SDK	RTSP API	Get JPEG image or MJPEG stream, Alarm in/out control
	ActiveX SDK	RTSP header, RTSP command document

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

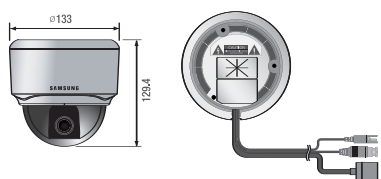


- 2.8-11mm Vari-Focal Lens
- Fan/Heater built-in for Outdoor Installation
- Real-time 30(25)fps at High Resolution(4CIF)
- H.264, MPEG-4 & MJPEG Multiple Encoding
- Progressive Scan
- WDR (Wide Dynamic Range)
- Day & Night Function (IR Cut Filter)
- Bi-directional Audio Support
- SD Memory Slot for Internal 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
Image	Device	Super HAD PS CCD
	Size	1/3"
	Scan	Progressive Scan
Pixels	Total	NTSC: 811 x 508 / PAL: 795 x 596
	Effective	NTSC: 768 x 494 / PAL: 752 x 582
Scanning	Horizontal Frequency	NTSC: 15.734Hz
	Internal Mode	PAL: 15.625Hz
Vertical Frequency	Internal Mode	NTSC: 59.94Hz
	Internal Mode	PAL: 50Hz
Min. Scene Illumination	Color	0.12Lux (15 IRE) / 0.2Lux (30 IRE) / 0.4Lux (50 IRE)
	Sens Off	0.00023Lux (15 IRE) / 0.0005Lux (30 IRE) / 0.0008Lux (50 IRE)
	Sens-up 512x	0.12Lux (15 IRE) / 0.2Lux (30 IRE) / 0.4Lux (50 IRE)
	Sens-up 512x	0.00023Lux (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 (H/V), Posi/Nega	
Resolution Video Output	Horizontal / Vertical	600TV lines / 350TV lines
	S/N Ratio	VBS 1.0Vp-p
	S/N Ratio	2.8 ~ 11mm
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)
	Mount Type	Board type
	Operating Temperature	-10°C ~ +50°C (+14°F ~ +122°F)
Power	Operating Humidity	0% ~ 90% RH
	Power Requirement	Dual (12V DC / 24V AC), PoE
	Power Consumption	Max. 6W
Physical Specification	Dimensions (WxH)	SND-3080: 0133 x 129.4mm (05.24" x 5.09") SND-3080F: 0159.9 x 126mm (06.3" x 4.96") SND-3080: 523g (1.15 lb) / SND-3080F: 650g (1.43 lb)
	Weight	
	Color / Case	White / Plastic

Dimensions



Network	SND-3080/3080F	
OS	Flash memory	Embedded Linux
	RAM	32M byte
Network Board	Hardware	Ethernet RJ-45 (10/100 Base-T)
	Video Out	VBS 1.0Vp-p
Audio	Audio	N/A
	SD Memory Slot	Yes (SD / SDHC)
Alarm	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
	Resolution	640 x 480
Audio	Color / B/W (Auto ICR)	NTSC: 352 x 240 / PAL: 352 x 288
	CIF	NTSC: 320, 15, 8, 3, 1fps / PAL: 25, 13, 6, 3, 1fps
	Max. Frame Rate	Quality 1 ~ 10 level (CBR / VBR)
OSD	Compression	N/A
	Bi-Directional Communication	N/A
Motion Detection	Camera Control and Adjustment	OSD menu on video (Menu enter/exit, move by Web UI)
	Sensitivity and Area Setting	On / Off (Menu / Live)
Protocol	IP	IPv4 / IPv6
	Network Protocol	TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP
Connection	Protocol	PPPoe, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3 (MIB-2), ARP, DNS, DDNS
	Streaming	TCP/IP, HTTP, HTTPS, SSL, DHCP
Event Management	Security	Unicast, Multicast
	DDNS	HTTIPS (SSL) login authentication, Digest login authentication, IP address filtering
User Access	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 Schedule	Notification : notify to viewer or by E-mail (one image attachment), Alarm out JPEG image transfer / FTP, E-mail, JPEG image recording / SD memory
Video Management Software	Supported OS	Windows XP, VISTA, 7
	Supported Browser	Internet Explorer 6.0 or higher
Application	Viewer (Default)	English, French, German, Spanish, Italian, Chinese, Korean
	S/W Upgrade	Using web viewer UI
SDK	Video Player	Quicktime, VLC player
	Video Management Software	Using web viewer UI
Application	HTTP API	CGI Command
	RTP/RTSP API	CGI Command
SDK	ActiveX	ActiveX API for viewing data streams from IP camera
	ActiveX	ActiveX API for viewing data streams from IP camera

Technical Specifications

Camera	SNV-3080	
Camera Type	Color / B/W	Color
Image	Device	Super HAD PS CCD
	Size	1/3"
	Scan	Progressive Scan (When WDR on: Interlaced Scan)
Pixels	Total	NTSC: 811 x 508 / PAL: 795 x 596
	Effective	NTSC: 768 x 494 / PAL: 752 x 582
Scanning	Horizontal Frequency	NTSC: 15.734Hz
	Internal Mode	PAL: 15.625Hz
Vertical Frequency	Internal Mode	NTSC: 59.94Hz
	Internal Mode	PAL: 50Hz
Min. Scene Illumination	Color	0.12Lux (15 IRE) / 0.2Lux (30 IRE) / 0.4Lux (50 IRE)
	Sens Off	0.00023Lux (15 IRE) / 0.0005Lux (30 IRE) / 0.0008Lux (50 IRE)
	Sens-up 512x	0.12Lux (15 IRE) / 0.2Lux (30 IRE) / 0.4Lux (50 IRE)
	Sens-up 512x	0.00023Lux (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 ~ 9,500°K, ATW2: 2,000 ~ 10,000°K)
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 (H/V), Posi/Nega, PIP	
Resolution Video Output	Horizontal / Vertical	600TV lines / 350TV lines
	S/N Ratio	VBS 1.0Vp-p
	S/N Ratio	2.8 ~ 11mm
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)
	Mount Type	Board type
	Operating Temperature	-40°C ~ +50°C (Built-in fan/heater)
Power	Operating Humidity	0% ~ 90% RH (Waterproof)
	Power Requirement	Dual (12V DC / 24V AC), PoE
	Power Consumption	Max. 6W (Heater off) / Max. 11W (Heater on)
Physical Specification	Dimensions (WxH)	0160 x 134.5mm (6.3" x 5.3")
	Weight	1.28kg (2.82 lb)
	Color / Case	White Grey / Aluminum (IP66)

Dimensions

