

# QND-7010R/7020R/7030R

4Megapixel Network IR Dome Camera



QND-7010R

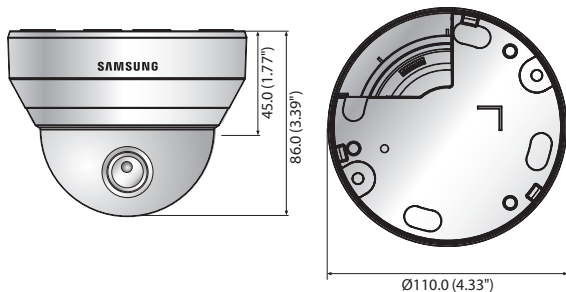
QND-7020R/7030R

## Key Features

- Max. 4M resolution
- Built-in 2.8mm fixed lens (QND-7010R)  
3.6mm fixed lens (QND-7020R)  
6mm fixed lens (QND-7030R)
- Max. 20fps@4M, Max. 30fps@under 2M (H.265/H.264)
- H.265, H.264, MJPEG codec supported, Multiple streaming
- Motion detection, Tampering, Defocus detection
- micro SD (128GB) memory slot, PoE / 12V DC
- IR viewable length 20m, IK08
- Hallway view, WiseStream support
- LDC support (Lens Distortion Correction)

## Dimensions

Unit : mm (inch)



## Accessories (Optional)



## QND-7010R/7020R/7030R

<b>VIDEO</b>	
Imaging Device	1/3" 4M CMOS
Total Pixels	2,720(H) x 1,536(V)
Effective Pixels	2,688(H) x 1,520(V)
Scanning System	Progressive
Min. Illumination	Color : 0.5Lux (QND-7010R), 0.4Lux (QND-7020R), 0.3Lux (QND-7030R) B/W : 0Lux (IR LED on)
<b>LENS</b>	
Focal Length (Zoom Ratio)	2.8mm fixed (QND-7010R), 3.6mm fixed (QND-7020R), 6mm fixed (QND-7030R)
Max. Aperture Ratio	F2.2
Angular Field of View	H : 110.0° / V : 63.0° / D : 128.0° (QND-7010R) H : 81.0° / V : 45.0° / D : 95.0° (QND-7020R) H : 53.0° / V : 31.0° / D : 62.0° (QND-7030R)
Lens Type	Fixed
Mount Type	Board type
<b>PAN / TILT / ROTATE</b>	
Pan / Tilt / Rotate Range	0° ~ 350° / 0° ~ 67° / 0° ~ 355°
<b>OPERATIONAL</b>	
IR Viewable Length	20m (65.62ft)
Camera Title	Off / On (Displayed up to 20 characters per line) - W/W : English / Numeric / Special characters - China : English / Numeric / Special / Chinese characters - Common : Multi-line (Max. 5), Color (Grey / Green / Red / Blue / Black / White), Transparency, Auto scale by resolution
Day & Night	True Day & Night
Backlight Compensation	Off / BLC / WDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNR (Off / On)
Motion Detection	Off / On (4ea polygonal zones)
Privacy Masking	Off / On (6ea rectangular zones)
Gain Control	Off / Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
LDC (Lens Distortion Correction)	Off / On (5 levels with min / max)
Electronic Shutter Speed	Minimum / Maximum / Anti flicker
Flip / Mirror	Flip / Mirror / Hallway view
Intelligent Video Analytics	Motion detection with metadata, Tampering, Defocus detection
Alarm I/O	Input 1 / Output 1
Alarm Triggers	Motion detection, Tampering detection, SD card error, NAS error, Alarm input, Defocus detection
Alarm Events	File upload via FTP and E-mail, Local storage recording at event, Notification via E-mail, External output
Pixel Counter	Support (Plug-in viewer only)
<b>NETWORK</b>	
Ethernet	RJ-45 (10/100BASE-T)
Video Compression Format	H.265, H.264, MJPEG
Resolution	2592 x 1520, 2560 x 1440 (16:9), 2304 x 1296, 1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240
Max. Framerate	H.265/H.264 : Max. 20fps at 4M, Max. 30fps at under 2M MJPEG : Max. 15fps
Smart Codec	WiseStream
Video Quality Adjustment	H.265/H.264 : Target bitrate level control, MJPEG : Quality level control
Bitrate Control Method	H.265/H.264 : CBR or VBR, MJPEG : VBR
Streaming Capability	Multiple streaming (Up to 3 profiles)
Audio I/O	Built-in mic
Audio Compression Format	G.711 u-law / G.726 selectable G.726 (ADPCM) 8KHz, G.711 8KHz, G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps
Audio Communication	Uni-directional audio
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3 (MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
Security	HTTPS (SSL) login authentication, Digest login authentication IP address filtering, User access log, 802.1x authentication
Streaming Method	Unicast / Multicast
Max. User Access	6 users at unicast mode
Storage	micro SD/SDHC/SDXC max. 128G, NAS - Motion images recorded in the SD memory card can be downloaded - Manual recording at local PC
Application Programming Interface	ONVIF Profile S/G, SUNAPI (HTTP API)
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Portuguese, Turkish, Polish, Czech, Dutch, Hungarian, Greek
Web Viewer	Supported OS : Windows 7, 8.1, 10, Mac OS X 10.9, 10.10, 10.11 Plug-in free Webviewer - Supported Browser : Google Chrome 47, MS Edge 20 Plug-in Webviewer - Supported Browser : MS Explore 11, Mozilla Firefox 43, Apple Safari 9 * Mac OS X only
Smart Viewer	SmartViewer
<b>CENTRAL MANAGEMENT SOFTWARE</b>	
<b>ENVIRONMENTAL</b>	
Operating Temperature / Humidity	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH
Storage Temperature / Humidity	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH
Vandal Resistance	IK08
<b>ELECTRICAL</b>	
Input Voltage / Current	PoE (IEEE802.3af, Class3) / 12V DC
Power Consumption	Max. 7W (PoE), Max. 5.8W (12V DC) : QND-7010R Max. 6.5W (PoE), Max. 5.43W (12V DC) : QND-7020R/7030R
<b>MECHANICAL</b>	
Color / Material	Ivory / Plastic
Dimensions (WxH)	Ø110.0 x 86.0mm (Ø4.33" x 3.39")
Weight	290g (0.64 lb)

\* The latest product information / specification can be found at <http://security.hanwhatechwin.com>

# QNO-7010R/7020R/7030R

4M Network IR Bullet Camera

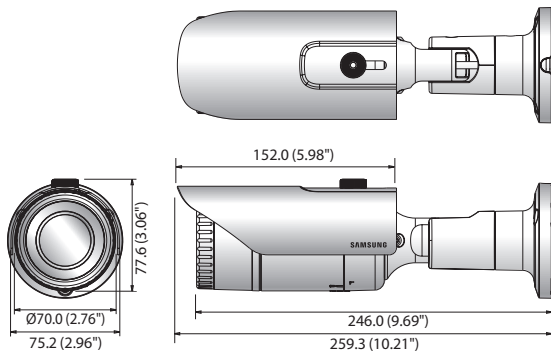


## Key Features

- Max. 4megapixel resolution
- Built-in 2.8mm fixed lens (QNO-7010R)  
3.6mm fixed lens (QNO-7020R)  
6mm fixed lens (QNO-7030R)
- Max. 20fps@4M, Max. 30fps@under 2M (H.265/H.264)
- H.265, H.264, MJPEG codec supported, Multiple streaming
- Motion detection, Tampering, Defocus detection
- micro SD/SDHC/SDXC memory slot (Max. 128GB), PoE / 12V DC
- IR viewable length 20m (QNO-7010R), 25m (QNO-7020R)  
30m (QNO-7030R)
- Hallway view, WiseStream support, IP66, IK10
- LDC support (Lens Distortion Correction)

## Dimensions

Unit : mm (inch)



## Accessories (Optional)



SBO-100B1



SBP-302PM

## QNO-7010R/7020R/7030R

<b>VIDEO</b>	
Imaging Device	1/3" 4M CMOS
Total Pixels	2,720(H) x 1,536(V)
Effective Pixels	2,688(H) x 1,520(V)
Scanning System	Progressive
Min. Illumination	Color : 0.5Lux (QNO-7010R), 0.4Lux (QNO-7020R), 0.3Lux (QNO-7030R) B/W : 0Lux (IR LED on)
<b>LENS</b>	
Focal Length (Zoom Ratio)	2.8mm fixed (QNO-7010R), 3.6mm fixed (QNO-7020R), 6mm fixed (QNO-7030R)
Max. Aperture Ratio	F2.2
Angular Field of View	H : 110.0° / V : 63.0° / D : 128.0° (QNO-7010R) H : 81.0° / V : 45.0° / D : 95.0° (QNO-7020R) H : 53.0° / V : 31.0° / D : 62.0° (QNO-7030R)
Lens Type	Fixed
Mount Type	Board type
<b>OPERATIONAL</b>	
IR Viewable Length	20m (65.62ft) : QNO-7010R, 25m (82.02ft) : QNO-7020R, 30m (98.43ft) : QNO-7030R
Camera Title	Off / On (Displayed up to 20 characters per line) - W/W : English / Numeric / Special characters - China : English / Numeric / Special / Chinese characters - Common : Multi-line (Max. 5), Color (Grey / Green / Red / Blue / Black / White), Transparency, Auto scale by resolution
Day & Night	True Day & Night
Backlight Compensation	Off / BLC / WDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNR (Off / On)
Motion Detection	Off / On (4ea polygonal zones)
Privacy Masking	Off / On (6ea rectangular zones)
Gain Control	Off / Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
LDC (Lens Distortion Correction)	Off / On (5 levels with min / max)
Electronic Shutter Speed	Minimum / Maximum / Anti flicker
Flip / Mirror	Flip / Mirror / Hallway view
Intelligent Video Analytics	Motion detection with metadata, Tampering, Defocus detection
Alarm I/O	Input 1 / Output 1
Alarm Triggers	Motion detection, Tampering detection, SD card error, NAS error, Alarm input, Defocus detection
Alarm Events	File upload via FTP and E-mail, Local storage recording at event, Notification via E-mail, External output
Pixel Counter	Support (Plug-in viewer only)
<b>NETWORK</b>	
Ethernet	RJ-45 (10/100BASE-T)
Video Compression Format	H.265, H.264, MJPEG
Resolution	2592 x 1520, 2560 x 1440 (16 : 9), 2304 x 1296, 1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240
Max. Framerate	H.265/H.264 : Max. 20fps at 4M, Max. 30fps at under 2M MJPEG : Max. 15fps
Smart Codec	WiseStream
Video Quality Adjustment	H.265/H.264 : Target bitrate level control, MJPEG : Quality level control
Bitrate Control Method	H.265/H.264 : CBR or VBR, MJPEG : VBR
Streaming Capability	Multiple streaming (Up to 3 profiles)
Audio I/O	Line in
Audio Compression Format	G.711 u-law / G.726 selectable G.726 (ADPCM) 8KHz, G.711 8KHz, G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps
Audio Communication	Uni-directional audio
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log, 802.1x authentication
Streaming Method	Unicast / Multicast
Max. User Access	6 users at unicast mode
Storage	micro SD/SDHC/SDXC (Max. 128GB), NAS - Motion images recorded in the SD memory card can be downloaded - Manual recording at local PC
Application Programming Interface	ONVIF Profile S/G, SUNAPI (HTTP API)
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Portuguese, Turkish, Polish, Czech, Dutch, Hungarian, Greek
Web Viewer	Supported OS : Windows 7, 8.1, 10, Mac OS X 10.9, 10.10, 10.11 Plug-in free Webviewer - Supported Browser : Google Chrome 47, MS Edge 20 Plug-in Webviewer - Supported Browser : MS Explore 11, Mozilla Firefox 43, Apple Safari 9 * Mac OS X only SmartViewer
<b>Central Management Software</b>	
<b>ENVIRONMENTAL</b>	
Operating Temperature / Humidity	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH * Start up should be done at above -20°C (-4°F)
Storage Temperature / Humidity	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH
Ingress Protection	IP66
Vandal Resistance	IK10
<b>ELECTRICAL</b>	
Input Voltage / Current	PoE (IEEE802.3af, Class3) / 12V DC
Power Consumption	Max. 7W (PoE), Max. 6W (12V DC)
<b>MECHANICAL</b>	
Color / Material	Dark gray / Metal
Dimensions (WxH)	Ø70.0 x 246.0mm (Ø2.76" x 9.69") (Without sunshield)
Weight	730g (1.61 lb)

\* The latest product information / sepecification can be found at [hanwha-security.com](http://hanwha-security.com)

# HRD-E1630L/E830L/E430L

16CH/8CH/4CH 1080p Analog HD DVR



## Key Features

- 16CH/8CH/4CH AHD DVR
- Up to 480/240/120(1080p)fps recording rate (NTSC)  
Up to 400/200/100(1080p)fps recording rate (PAL)
- HDMI / VGA video output
- 4CH audio inputs / 1CH audio output
- 1 internal HDDs (Max. 6TB)
- Coaxial cable (ACP)
- Enhanced network bandwidth up to 64/32/16Mbps

## Dimensions

Unit : mm (inch)

## HRD-E1630L/E830L/E430L

DISPLAY			
Video	Inputs	16CH BNC (HRD-E1630L), 8CH BNC (HRD-E830L), 4CH BNC (HRD-E430L)	
	System	AHD, NTSC / PAL	
	Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 960 x 480 (960H)	
Live	Frame Rate	(HRD-E1630L) NTSC : 480fps@1920 x 1080, 480fps@1280 x 720, 480fps@960 x 480 PAL : 400fps@1920 x 1080, 400fps@1280 x 720, 400fps@960 x 576 (HRD-E830L) NTSC : 240fps@1920 x 1080, 240fps@1280 x 720, 240fps@960 x 480 PAL : 200fps@1920 x 1080, 200fps@1280 x 720, 200fps@960 x 576 (HRD-E430L) NTSC : 120fps@1920 x 1080, 120fps@1280 x 720, 120fps@960 x 480 PAL : 100fps@1920 x 1080, 100fps@1280 x 720, 100fps@960 x 576	
		Resolution	1080p, 720p, 960H
		Multi Screen Display	1/4/Sequence(E430L), 1/4/8/Sequence(E830L), 1/4/9/16/Sequence(E1630L)
		<b>PERFORMANCE</b>	
Operating System	Embedded	Linux	
	Installation Wizard	Support	
	Compression	H.264	
Recording	Record Rate	HRD-E1630L : Up to 240fps@1920 x 1080, Up to 480fps@1280 x 720 Up to 480fps@960 x 480, Up to 400fps@960 x 576 HRD-E830L : Up to 120fps@1920 x 1080, Up to 240fps@1280 x 720 Up to 240fps@960 x 480, Up to 200fps@960 x 576 HRD-E430L : Up to 60fps@1920 x 1080, Up to 120fps@1280 x 720 Up to 120fps@960 x 480, Up to 100fps@960 x 576	
		Mode	Manual, Schedule (Continuous / Event), Event (Pre / Post)
		Event	Video loss, Motion (Sensitivity level 1 ~ 8)
	Overwrite Modes	Off / On (Auto / 1 / 3 / 7 / 14 / 30 / 90days)	
	Pre-alarm	Min. 1sec	
	Post-alarm	Up to 5min (30sec, 1 / 2 / 5min)	
	Search & Playback	Search Mode	Date/Time, Event, Motion
Playback Function		Fast forward / backward (2x, 4x, 8x, 16x) Slow forward (1/2x, 1/4x, 1/8x, 1/16x) Step forward (CMS support) (Applicable for local DVR only)	
		Synchronous	16CH (HRD-E1630L), 8CH (HRD-E830L), 4CH (HRD-E430L)
Network (IPv4)	Transmission Speed	Max. 240fps@1080p (HRD-E1630L), Max. 120fps@1080p (HRD-E830L) Max. 60fps@1080p (HRD-E430L)	
	Bandwidth	Up to 64Mbps (HRD-E1630L), Up to 32Mbps (HRD-E830L), Up to 16Mbps (HRD-E430L)	
	Live Stream	Max. 240fps@1080p (HRD-E1630L), Max. 120fps@1080p (HRD-E830L), Max. 60fps@1080p (HRD-E430L)	
	Max. Remote Users	20 (Max. bandwidth 32M)	
	Protocol Support	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, DHCP(Server, Client), PPPoE, SMTP, DNS, DDNS, uPnP	
	Monitoring	Webviewer, Mobile Viewer, CMS (HD E-Viewer)	
Remote Monitoring	Platform	Supported OS - PC : Windows® XP, Windows® Vista, Windows® 7, Windows® 8 Mac OS X® 10.9 or above - Mobile : Android Ver.3.0 or above, iOS® 5.1 or above	
		Supported browser - Microsoft Internet Explorer (Ver. 11, 10, 9, 8), Mozilla Firefox Ver 19.x or higher, Google Chrome Ver 44.x or lower, Safari® 5.1 or above	
		Protocol Support	TCP/IP, UDP/IP, UDP
	Protocol Support	Max.30fps@CIF, 4CIF, 720p, 1080p (per Channel)	
	Max. Remote Users	20 (Max. bandwidth 64M-HRD-E1630L, 32M-HD-E830L, E430L)	
Storage	Internal HDD	1 SATA HDD *Support max. 6T	
	External (e-SATA Interface)	2 USB ports	
	File Format (Backup)	H.264, AVI, MPEG-4	
Security	Password Protection	1 Admin, 6 User	
<b>INTERFACE</b>			
Monitors	VGA	1 VGA (1024 x 768, 1280 x 1,024, 1280 x 720, 1440 x 900, 1920 x 1080)	
	HDMI	1 HDMI (1024 x 768, 1280 x 1,024, 1280 x 720, 1440 x 900, 1920 x 1080)	
Audio	Inputs / Output	4CH RCA in / 1CH RCA out	
	Compression	G.711, 8KHz	
Alarm	Remote Notification	Notification via e-mail	
Connections	Ethernet	1 RJ-45 1000 Base-T	
	USB	USB 2.0, 2 ports (Front / Rear)	
	Serial	RS-485	
	Application Support	Mouse, Remote controller	
	RS-485 Protocol	Pelco-D/P	
	Coax Protocol	ACP (UTC)	
<b>GENERAL</b>			
Electrical	Input Voltage / Current	12V / 2A DC adaptor	
	Power Consumption	Max. 15.5W (HRD-E1630L), Max. 9.5W (HRD-E830L), Max. 7W (HRD-E430L) (HDD not included)	
Environmental	Operating Temperature	+0°C ~ +40°C (+32°F ~ +104°F)	
	Operating Humidity	20% ~ 85% RH	
Mechanical	Dimensions (WxHxD)	300.0 x 52.0 x 220.0mm (11.8" x 2.05" x 8.66")	
	Weight (With hard disks)	1.17Kg (2.58 lb) (HRD-E1630L), 1.04Kg (2.29 lb) (HRD-E830L), 1.02Kg (2.25 lb) (HRD-E430L)	
Language		English, French, German, Spanish, Italian, Russian, Turkish, Portuguese (For Korean model : Korean only)	

\* This Model don't support the SSM, SmartViewer & ipolis Mobile Viewer

\* The latest product information / sepecification can be found at [hanwha-security.com](http://hanwha-security.com)

# HCO-E6070R/E6020R, HCD-E6070R/E6020R

1080p Analog HD IR Camera



HCO-E6070R

HCO-E6020R



HCD-E6070R

HCD-E6020R

## Key Features

- Full HD (1920 x 1080) resolution
- B/W : 0Lux (Auto IR LED on)@F1.4 (E6070R) / F2.1 (E6020R)
- 2.8 ~ 12mm (4.3x) varifocal lens (E6070R), Built-in 3.6mm (E6020R)
- Day & Night (ICR), DWDR, Motion detection
- IR viewable length 20m (E6070R)
- IP66 (HCO-E6070R/E6020R)
- Transmission distance max.500m (5C-2V)

	HCO-E6070RN/E6020RN HCD-E6070RN/E6020RN	HCO-E6070RP/E6020RP HCD-E6070RP/E6020RP
<b>VIDEO</b>		
Imaging Device	1/2.7" 2M CMOS	
Total Pixels	1,952(H) x 1,092(V)	
Effective Pixels	1,920(H) x 1,080(V)	
Scanning System	Progressive scan	
Min. Illumination	0Lux (Auto IR LED on)	
S/N Ratio	52dB (AGC off)	
Video Output	BNC (AHD, CVBS Selectable) AHD: 30fps@1080p CVBS: 30fps@928 x 480	BNC(AHD, CVBS Selectable) AHD: 25fps@1080p CVBS: 25fps@928 x 576
<b>LENS</b>		
Focal Length (Zoom Ratio)	2.8 ~ 12mm (4.3x) varifocal (E6070R), 3.6mm fixed (E6020R)	
Max. Aperture Ratio	F1.4 (E6070R), F2.1 (E6020R)	
Angular Field of View	H : 98.6°(Wide) ~ 36.8°(Tele) / V : 53.1°(Wide) ~ 20.9°(Tele) / D : 115.2°(Wide) ~ 40°(Tele) (E6070R) H : 88.9° / V : 46.3° / D : 104.6° (E6020R)	
Min. Object Distance	0.5m (1.64ft)	
Focus Control	Manual (E6070R), Fixed (E6020R)	
<b>OPERATIONAL</b>		
On Screen Display	English, French, German, Spanish, Italian, Russian, Turkish, Portuguese	
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (ICR)	
Backlight Compensation	Off / BLC / HLC	
Wide Dynamic Range	DWDR	
Digital Noise Reduction	2D/3D DNR	
Defog	Off / On	
Motion Detection	Off / On (4 zones)	
Privacy Masking	Off / On (4 zones)	
Gain Control	AGC	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,800K ~ 10,500K)	
Electronic Shutter Speed	AUTO / FLK / 1/50,000sec ~ 1/30sec / 2x ~ 30x	AUTO / FLK / 1/50,000sec ~ 1/25sec / 2x ~ 30x
Reverse	Off / Mirror / V-Flip / Rotate	
Protocol	ACP	
IR Distance	20m (65.62ft) (E6070R), 10m (32.81ft) (E6020R)	
Video Transmission Distance	300m (3C-2V), 500m (5C-2V)	
<b>ENVIRONMENTAL</b>		
Operating Temperature / Humidity	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH (HCO-E6070R/E6020R) -10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH (HCD-E6070R/E6020R)	
Ingress Protection	IP66 (HCO-E6070R/E6020R)	
<b>ELECTRICAL</b>		
Input Voltage / Current	12V DC ±10%	
Power Consumption	Max. 5W (HCO-E6070R), Max. 3.8W (HCO-E6020R), Max. 3.8W (HCD-E6070R), Max. 4.4W (HCD-E6020R)	
<b>MECHANICAL</b>		
Color / Material	White / Metal (HCO-E6070R/E6020R), White / Plastic (HCD-E6070R/E6020R)	
Dimensions (WxHxD)	81.0 x 84.0 x 231.9mm (3.19" x 3.31" x 9.13") (HCO-E6070R) Ø69.5 x 140.0mm (Ø2.74" x 5.51") (HCO-E6020R) Ø145.0 x 115.0mm (Ø5.71" x 4.53") (HCD-E6070R) Ø100.0 x 89.6mm (Ø3.94" x 3.53") (HCO-E6020R)	
Weight	600g (1.32 lb) (HCO-E6070R), 312g (0.69 lb) (HCO-E6020R) 372g (0.82 lb) (HCD-E6070R), 184g (0.41 lb) (HCD-E6020R)	

\* The latest product information / specification can be found at [hanwha-security.com](http://hanwha-security.com)

## Dimensions

Unit : mm (inch)

HCO-E6070R

HCO-E6020R

HCD-E6070R

HCD-E6020R

# SRN-873S

8CH Network Video Recorder with PoE Switch

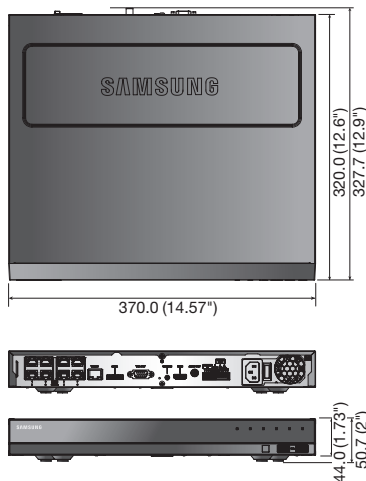


## Key Features

- Up to 8CH 8M supported
- 64Mbps network camera recording
- Plug & play by 8 PoE/PoE+ ports
- Max. 2HDDs, e-SATA storage supported
- HDMI / VGA local monitor

## Dimensions

Unit : mm (inch)



		SRN-873S
<b>DISPLAY</b>		
Video	Inputs / Resolution	Up to 8CH / CIF ~ 8M
	Protocols	Samsung, ONVIF
Live	Local Display	HDMI / VGA
	Multi Screen Display	[Local monitor] 1 / 4 / 6 / 8 / Auto sequence, [Web] 1 / 4 / 8 / Auto sequence
	Performance	[Local monitor] 8M (20fps), 5M (30fps), 3M (50fps), 2M (150fps), 720p (240fps), D1 (240fps) [Web] 5M (30fps), 3M (60fps), 2M (120fps), 720p (240fps), D1 (240fps)
<b>PERFORMANCE</b>		
Operating System	Embedded	Linux
	Compression	H.264, MJPEG
Recording	Recording Bandwidth	64Mbps, 2M 8 camera real-time recording
	Resolution	CIF ~ 8M
	Mode	Normal, Scheduled, Event (Pre / Post)
	Event Trigger	Alarm input (4), Video loss, Camera event (Alarm in, MD, Video analytics)
	Event Action	E-mail, PTZ preset, Alarm out, Buzzer, Monitor out
Search & Playback	Playback Bandwidth	32Mbps
	Performance	Max. 3 users
	Mode	Date & Time (Calendar) / Event log list / Text Search (POS)
	Simultaneous Playback	[Local monitor] Up to 8CH, [Web, CMS] Up to 8CH
	Resolution	CIF ~ 8M
	Fish-eye Dewarping	Via Smartviewer
Storage	Internal	2 SATA
	External (DAS)	1 e-SATA
	Max.Capacity	Internal 8TB
Back up	File Back up	BU/EXE (USB), JPG/AVI (Web, CMS)
	Function	Max. 8CH playback, Date-time/title display
Sensor	Input / Output	4 / 3 (NO 2ea, NO/NC 1ea)
Audio	Input / Compression	8CH (Network) / G.711, G.726, AAC (16/48KHz)
	Audio Communication	2-way
<b>NETWORK</b>		
Protocol Support		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, Client), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S)
DDNS		Samsung iPOLiS DDNS
Transmission Bandwidth		Max. 128Mbps
Max. Remote Users		Search 3 / Live unicast 10 / Live multicast 20
IP		IPv4 / IPv6
Security		IP address filtering, User access log, 802.1x authentication, Encryption
Language	GUI / Web	English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai
OS		Supported OS : Window XP (Service pack 2 or above), Vista, 7, 8, Mac OS X (10.6 or above)
Web Browser		Microsoft Internet Explorer (Updated Ver. 8 ~10, IE 9 or above recommended) Mozilla Firefox (Ver. 19.x or above), Google Chrome (Ver. 26.x or above), Apple Safari (Ver. 6.0.3 or above)
Viewer Software	Type	SSM, Webviewer, SmartViewer, iPOLiS mobile viewer
Software	CMS Support	SDK / CGI (SUNAPI)
<b>FUNCTIONS</b>		
Camera Setup	Register	PnP mode, Manual mode
	Setup Items	IP address, Add profile edit, Bitrate, Compression, GOP, Quality
		Camera MD setup Camera video setup (Simple focus, Brightness/Contrast, Flip/Mirror, IRIS, WDR, D&N, SSNR, Shutter, SDDR, DIS)
Camera Control	PoE	Monitor PoE power consumption, On/Off control for each PoE camera Remote reset for each PoE camera
Easy Configuration		Setup Wizard (Date/Time, Network, Auto camera configuration)
PTZ	Control / Preset	Via GUI, Webviewer, SPC-2000 / 255
	OS	Android, iOS
Smart phone	Control	Live (4CH) / Playback (1CH)
System Control		Mouse, IR Remocoan, Web, SPC-2000 (Controller)
<b>INDICATOR / INTERFACE</b>		
Front	Indicator	Power status LED 1ea, HDD action LED 1ea, Alarm status LED 1ea Record status LED 1ea, Network action LED 1ea, Back up LED 1ea
	USB	2ea (Front 2ea)
	HDMI / VGA	1ea / 1ea
Connections	Audio	Out 1ea (RCA, Line)
	Ethernet	RJ-45 8ea (PoE/PoE+, 100Mbps), RJ-45 1ea (WAN, 1Gbps)
	Alarm	In 4ea (Terminal block) / Out 3ea (Terminal block)
	Reset	Yes (Factory reset)
<b>SYSTEM</b>		
Log	Log List	Max. 20000 (System log, Event log each)
<b>GENERAL</b>		
Electrical	Input Voltage / Current	100 ~ 240V AC, 50/60Hz / 3 ~ 1.5A
	Power Consumption	Max. 166W (2 HDD, PoE on), 44W (2 HDD, PoE off)
	PoE Budget	Max. 100W
Environmental	Operating Temperature	+0°C ~ +40°C (+32°F ~ +104°F)
	Operating Humidity	20% ~ 85% RH
Mechanical	Color / Material	Black / Metal
	Dimensions (WxHxD)	370.0 x 44.0 x 320.0mm (14.57" x 1.73" x 12.6") (1U)
	Weight	Approx. 3.4Kg (7.49lb), 1TB HDD 1ea included

\* The latest product information / specification can be found at [www.samsungsecurity.com](http://www.samsungsecurity.com)