

# SPE-1610

16CH Network Video Encoder

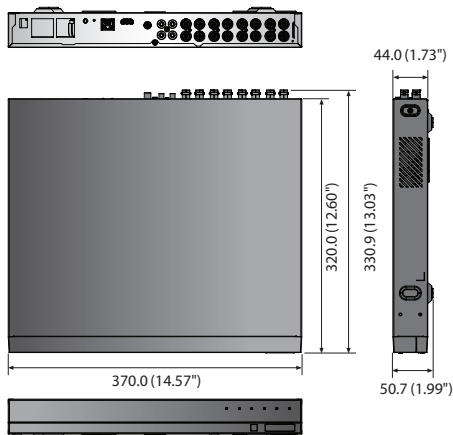


## Key Features

- Max. 4MP resolution
- Max. 15fps@4MP, 30fps@1080p
- H.264, MJPEG-4 codec support
- Dual streaming (up to 3 profiles per CH)
- 10/100/1000 Base-T

## Dimensions

Unit : mm (inch)



	SPE-1610N	SPE-1610P
<b>VIDEO</b>		
Input Channel	16CH BNC 1.0Vpp / 75Ω composite NTSC/PAL	
Input Signal & Resolution	CVBS, AHD(2&4MP), CVI(2MP), TVI(2MP) Auto/Manual Detection	
Video Out	1 HDMI OUT (16 multi Image, 1920x1080)	
<b>OPERATIONAL</b>		
Motion Detection	Off / On	
Privacy Masking	Off / On (4ea rectangular zones)	
Alarm I/O	16 Input / 4 Output	
Alarm Trigger	Motion detection, Alarm input, Video loss, Tampering, Network disconnect	
Alarm Events	File Upload Via FTP, E-mail	
Remote Control Interface	1ea RS-485 (Half duplex)	
RS-485 Protocol	SAMSUNG-T, PELCO-P/D	
Coaxial Control	NTSC/PAL : Pelco-C (Coaxitron), AHD : ACP (AHD Coax protocol)	
<b>NETWORK</b>		
Ethernet	1 RJ-45 (10/100/1000 BASE-T)	
Video Compression Format	H.264 (MPEG-4 Part 10/AVC) : Main / Baseline / High, JPEG	
Resolution	4M, 1920 x 1080, 1280 x 720, 928 x 480, 928 x 240, 704 x 480, 704 x 240, 352 x 240	4M, 1920 x 1080, 1280 x 720, 928 x 576, 928 x 288, 704 x 576, 704 x 288, 352 x 288
Max. Framerate	- Main Stream 4MP : 15fps/CH, 1080p/720p/ WD1/4CIF/CIF : 30fps/CH - Sub Stream WD1/4CIF : 12fps/CH, 2CIF/CIF/ QVGA/QCIF : 30fps/CH - MJPEG : 2fps @1920 x 1080, 1280 x 720, 960H, D1	- Main Stream 4MP : 15fps/CH, 1080p/720p/ WD1/4CIF/CIF : 25fps/CH - Sub Stream WD1/4CIF : 12fps/CH, 2CIF/CIF/ QVGA/QCIF : 25fps/CH - MJPEG : 2fps @1920 x 1080, 1280 x 720, 960H, D1
Bitrate Control Method	H.264 : CBR or VBR, MJPEG : CBR	
Streaming Capability	Dual streaming (Up to 3 Profiles per channel)	
Audio I/O	4 Line Input / 1 Line Output	
Audio Compression Format	G.711 u-law	
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, UPnP, ONVIF, Bonjour	
Security	HTTPS (SSL) login authentication, Digest login authentication IP address filtering, User access log, 802.1X authentication (EAP-TLS, EAP-LEAP)	
Streaming Method	Unicast / Multicast	
Max. User Access	10 users at Unicast Mode	
Webpage Languages	English, French, German, Spanish, Italian, Russian, Turkish, Polish, Dutch, Swedish, Portuguese, Czech, Chinese, Japanese	
Web Viewer	Supported OS : Windows 7, 8, 10, Mac OS X 10.10, 10.11, 10.12 - Non-plugin WebViewer Supported Browser : Google Chrome 54, MS Edge 38, IE11, Mozilla Firefox 49 (Windows 64bit only), Apple Safari 9 (Mac OS X only)	
Application Programming Interface	ONVIF profile S, SUNAPI (HTTP API)	
Compatible Software & Recorder	Smart viewer, SSM, Wisenet mobile viewer, NVR (Hanwha Techwin, P / X / Q series)	
<b>ENVIRONMENTAL</b>		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 20% ~ 80% RH	
<b>ELECTRICAL</b>		
Input Voltage / Current	12V DC	
Power Consumption	Max. 24W (12V, 2A)	
<b>MECHANICAL</b>		
Color / Material	Black / Metal	
Dimensions (WxHxD)	370.0 x 50.7 x 320.0mm (14.57" x 2.00" x 12.60")	
Weight	2.25kg (4.96 lb)	

\* The alarm feature of SSM or NVR (connected to encoder) is in preparation.

\* We will announce through our web site when it is available. Please find more information at [hanwha-security.com](http://hanwha-security.com)

\* Design and specifications are subject to change without notice.

\* Wisenet is the proprietary brand of Hanwha Techwin, formerly known as Samsung Techwin.