

SG-TL80 & SG-TL55



The SG-TL80 and SG-TL55 deliver Sony HD Video Conferencing combined with a smaller form-factor, high-power camera that includes a built-in microphone. It's the perfect solution for the executive desktop environment or smaller meeting spaces with two to three people in medical care, distance learning, and corporate conference rooms and training.

The SG-TL80 can host a 6-site multipoint call with the optional embedded MCU. Both systems also come standard with built-in conference recording and unicast/multicast streaming capabilities.

HD Codec Unit

PCS-XG80S / PCS-XG55S (software version 2.0)	
Communication Protocol Standards	
	H.320, H.323, IETF SIP
Video	
Compression Standard	ITU-T H.261, H.263, H.263+, H.263++, H.264, MPEG-4 Video (SIP only)
Resolution	4:3 QCIF (176 x 144), CIF (352 x 288), 4CIF (704 x 576) 16:9 wCIFw288p (512 x 288), w432p (768 x 432), w4CIF (1024 x 576), 720p (1280 x 720), 1080i (1920 x 1080)
Maximum Frame Rate	H.261 QCIF 30fps, CIF 30fps H.263 QCIF 30fps, CIF 30fps, 4CIF 10fps H.264 QCIF 30fps, CIF 30fps, 4CIF 30fps, wCIF 30fps, w432p 30fps, w4CIF 30fps, 720p 60fps, 1080i 60fps
Bit Rate	IP PCS-XG80S-64 kb/s to 10 Mb/s, PCS-XG55S-64 kb/s to 4 Mb/s. ISDN 56 kb/s to 768 kb/s (with optional PCSA-B768S) 56 kb/s to 384 kb/s (with optional PCSA-B384S)
Audio	
Bandwidth and Coding	MPEG-4 AAC-LC Stereo: 22 kHz at 128kb/s, 192 kb/s - IP Only MPEG-4 AAC-LC Mono: 14 kHz at 48 kb/s, 64 kb/s, 96 kb/s MPEG-4 AAC-LC Mono: 22 kHz at 64 kb/s, 96 kb/s - IP only G.711: 3.4 kHz at 56 kb/s, 64 kb/s G.722: 7.0 kHz at 48 kb/s, 56 kb/s, 64 kb/s G.728: 3.4 kHz at 16 kb/s
Echo Cancellation	Stereo echo-cancellation supported Noise reduction included Automatic gain control included
Screen Layout	
	Full screen, Picture-in-Picture, Picture-and-Picture, Side-by-Side split screen
ITU-T Standards (excludes audio/video standards)	
	H.221, BONDING, H.225.0, H.231, H.241, H.242, H.243, H.245, H.350, H.460.18, H.460.19
Other Standards	
	RFC2190, RFC3016, RFC3047, RFC3261, RFC3264, RFC3550, RFC3984, RFC4537, RFC4587, RFC4629, RFC4856
Network Protocol	
	TCP/IP, UDP/IP, RTP/RTCP, DHCP, DNS, SNMP, TELNET, SSH, HTTP, NTP, PPPoE, UPnP
Multipoint Capability for PCS-XG80S only	
	Internal MCU Up to 6 sites (H.320/H.323) with optional software PCSA-MCG80 Internal MCU Up to 10 sites (H.320/H.323) with optional software PCSA-MCG80 Using Cascaded Connection
Data Sharing	
	H.239 (video and presentation data option)
Lip Synchronization	
	ON/OFF
Mic Off Function	
	ON/OFF
Encryption Protocols	
	H.233, H.234, H.235 ver.3
Network Features	
Intelligent QoS (Quality of Service)	Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control)
Others Network Features	NAT, IP Precedence/Diffserv, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6
Camera Control	
Far End Camera Control	H.281
Interface	
Video Input	AUX Video Input (S-Video x 1-PCS-XG80S only, analog component Y/Pb/Pr x 1, RGB x 1)
Video Output	HDMI (video, audio) x 1, RGB x 1
Audio Input	Mic Input x 2 (stereo x 1/mono x 2, plug-in power) up to 14 kHz EC-Mic Input x 2 (PCSA-A7) up to 14kHz (PCS-XG80S only) Audio Input (MIC/AUX) (RCA pin, stereo) up to 22 kHz (AUX) PCS-XG80S x2, PCS-XG55S x1
Audio Output	HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1
Control	RS-232C
Memory Stick	Memory Stick™ Slot x 1
Tablet Interface	Tablet Interface x 1
Maintenance Interface	RS-232C x 1
Network	10BASE-T/100BASE-TX x2 for PCS-80S, x1 for PCS-XG55S, ISDN Unit Interface x1
General	
Operating Temperature	41 to 95 °F (5 to 35 °C)
Operating Humidity	20 to 80% (non condensing)
Storage Temperature	-4 to 140 °F (-20 to 60 °C)
Storage Humidity	20 to 80% (non condensing)
Power Requirements	DC 19.5 V (AC Adapter: AC 100 to 240 V, 50/60 Hz)
Power Consumption	40 W (codec only)/90 W (with PCSA-CXG80, PCSA-A7P4, PCSA-B768S)
Power Consumption (stand-by)	10 W (codec only)/15 W (with PCSA-CXG80, PCSA-A7P4, PCSA-B768S)
Dimensions (W x H x D)	11 1/8 x 2 1/4 (including rubber feet) x 9 5/8 inches (282 x 56 x 244 mm), excl. projections
Weight	Approx. 4 lb 14 oz (2.2 kg)
Supplied Accessories	
	AC adapter, HDMI cable (3m), RF Remote Commander® Unit, Batteries for Remote Commander® unit x 2, CD-ROM (Operating instructions, Before using this unit, Connection sheet, Quick dial guide), Before using this unit, Connection sheet, Quick dial guide, Important notice regarding software, Warranty booklet

HD Camera Unit

SG-CXTL80	
Image Device	1/3-type CMOS Number of
Pixels	Approx. 2 Megapixels
Lens	10 x Zoom F=5.1 wide)
Digital Zoom	12 x (120x optical zoom)
Distance	10mm (wide) to 800mm (tele)
Lens Distortion	Less 3% (wide)
Pan/Tilt Angle	-100° to +100°(Pan), -25° to +25° (Tilt)
S/N Ratio	50 dB
Min Illumination	12 Lx (F1.8 50IRE)
White Balance	Auto / Manual / One Push / Indoor / Outdoor
Focus	Auto / One Push / Manual
Configured Signal Setting	1080i/60
Aspect Ratio	16:9
INTERNAL MICROPHONE SPECIFICATIONS	
Microphone Type	OMNI Directional ECM
Sensitivity	7.9mV/Pa/1 kHz
Frequency Response	50Hz - 16000Hz
Impedance	2.2kohm
Signal to Noise Ratio	58dB

* PC images up to SXGA resolution is supported.

If requires the optional HD data solution software PCSA-DSG80 to send video and presentation data simultaneously.

Package Configuration

	SG-TL80	SG-TL55
HD Camera Unit (SG-CXTL80)	○	○
HD Codec Unit (PCS-XG80S)	○	-
HD Codec Unit (PCS-XG55S)	-	○



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