SRP-X700P

DIGITAL POWERED MIXER

The SRP-X700P Digital Powered Mixer has been designed for the type of modern presentation system which is required to process material from a wide range of sources whether they be microphones, video, audio, DVD or PC graphics.

The unit provides the functionality of up to seven traditional presentation devices in a compact 3U and rack-mounting chassis:

- RGB SWITCHER
- VIDEO SWITCHER
- WIRELESS TUNER BASE UNIT
- AUDIO MIXER
- POWER AMPLIFIER
- FEEDBACK REDUCER
- EQ

Utilising digital processing and control technology, the SRP-X700P combines an impressive set of features with high quality processing, while remaining user-friendly.

Six into one, multi-media switcher

The SRP-X700P has a 'six into one' switcher that allows a wide range of audio, video and PC graphics material to be routed to the presentation system. The SRP-X700P can handle the latest presentation signal sources such as PC graphics, wireless/ wired microphones, DVD playback and surround sound audio.

- Six picture inputs: 3 RGB/ Component, 3 Composite/S Video
- Six audio inputs: 4 stereo and 2 surround sound (5.1 format)
- High resolution Component signal processing, including 480p or 1080i
- High-performance switching, with a 150 MHz frequency response for RGB signals (1280 x 1024 pixels, SXGA)

Improved system efficiency

The SRP-X700P is supplied with two PC applications: the SRP-X700P 'Manager' and the 'User Control Panel'. The 'Manager' is a 'set and forget' application - it allows the unit to be fully configured during installation and provides a complete set of control GUIs. The User Control Panel provides a simple control GUI for real-time presenter control. Furthermore, the 20 internal Scene memories, four of which can be recalled from front panel buttons and the User Control panel, allow an instant reset all of the internal processing, thus minimising downtime between operating modes.

X700P Manager - Example BLOCK Screen

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6-mono and 2-stereo channels audio mixing with extensive processing to maximise sound quality

The SRP-X700P can mix and process 6 mono (4 mic, 2 mic/line) and 2 stereo (a stereo line and the 5.1/stereo line input of the switcher) input signals into 10 outputs (8 general purpose outputs and a stereo record output). With comprehensive audio processing such as EQ, dynamics, routing and delay, the quality of the audio signals can be maximised and room acoustics can be corrected.

- High quality audio A/D and D/A conversion (24-bit, 48 kHz sampling frequency).

Advanced audio processing functions - 'Feedback Reducer' and 'Automixer'

Two special audio processing tools are included to allow professional quality audio processing to be set up at the touch of a button. The 'Feedback Reducer' works by analysing and 'nulling out' potential howl round frequencies. The 'Automix' function allows the SRP-X700P to analyse, in real time, the incoming signals and make adjustments to maintain the quality of the output.

Multiple operating modes with 10 outputs and the on-board stereo power amplifier

A routing function allows the SRP-X700P to offer many different operating modes to support surround sound matrix switching or 'Zoned' speaker configurations. In addition the on-board 150 W stereo power amplifier can be switched between high and low impedance modes.

- Power rating 200 W + 200 W (4 Ω), 150 W + 150 W (8 Ω), Max 150 W (70 V Line)

Integrated Machine control and automation control interfacing

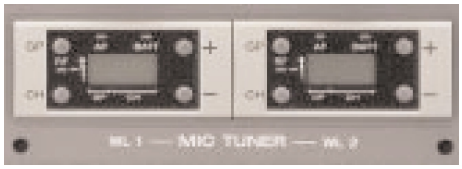
The SRP-X700P has extensive machine control capabilities with four CRTL-S control ports (allowing a wired machine control interface to Sony CD, MD and VTRs). Moreover, parallel and serial RS-232C control ports provide extensive control from professional presentation controllers.

- RS-232C port allows for remote control of Sony projector and PDP.
- USB, RS-232C and parallel input ports for remote control from an external PC (or other control systems).
- Control-S ports on the unit allow for remote operation of Sony VCRs, DVD players, CD players, MD recorders and projectors.*1
- Parallel output port for remote control of devices such as video screen (up/down), window curtains (open/close), projector (up/down), lighting (on/off), etc.*2

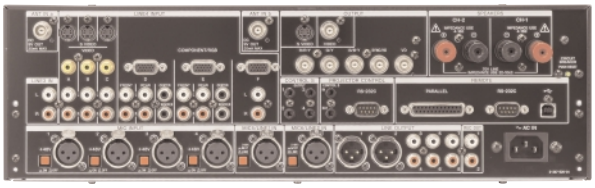
*1 In case of control of projector with the Control-S port, it is unable to switch between RGB and Component Video.
*2 Requires Interface Box between SRP-X700P and the devices.

Integrated wireless tuner unit slots

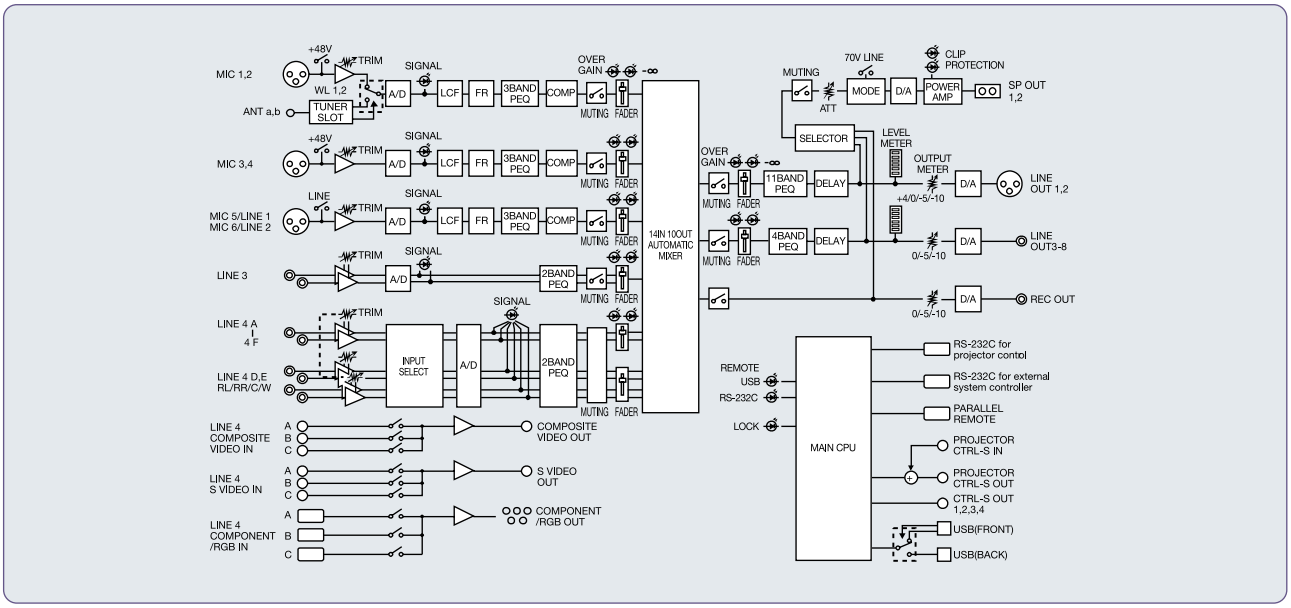
Up to two Sony WRU-806 wireless tuner units (option) can be directly installed into the SRP-X700P, making it simple to integrate a high quality Sony wireless microphone system into the presentation system.



SRP-X700P FRONT & REAR VIEW

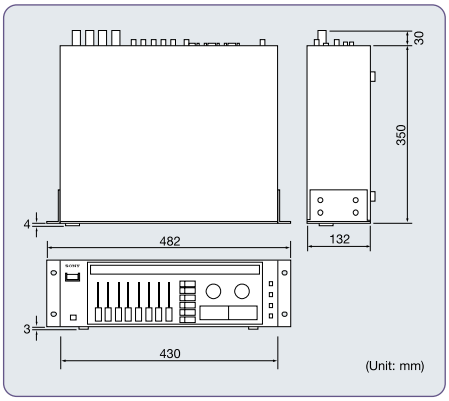


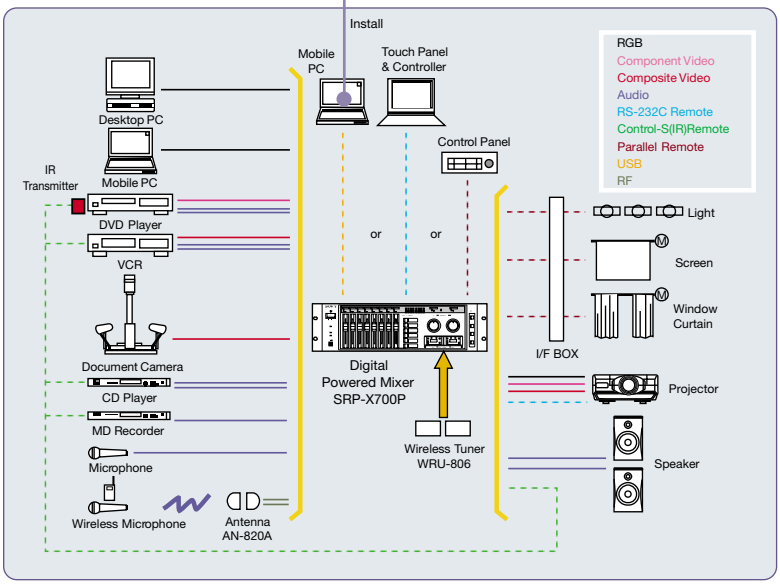
SRP-X700P BLOCK DIAGRAM



SRP-X700P DIMENSIONS & SYSTEM EXAMPLE

User Control Panel





SRP-X700P SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

Composite Video/S Video			
Colour system	NTSC/PAL/SECAM		
Frequency response		50 Hz - 10 MHz	
Level		1 Vp-p (75 Ω)	
Component Video			
Colour system		NTSC/PAL/SECAM	
Frequency response		50 Hz - 150 MHz	
Level	Y	1 Vp-p (75 Ω)	
	R-Y	0.7 Vp-p (75 Ω)	
	B-Y	0.7 Vp-p (75 Ω)	
RGB			
Frequency response		50 Hz - 150 MHz	
Resolution		1280 x 1024 pixels, 60 Hz (SXGA)	
Level	G	0.7 Vp-p (75 Ω)	
	B	0.7 Vp-p (75 Ω)	
	R	0.7 Vp-p (75 Ω)	
	SYNC/HD, VD	1-5 V (47 kΩ) sync positive/negative	
Audio (analogue)			
Frequency response		Line in - Line out	20 Hz - 20 kHz
T.H.D		Line in - Line out	Less than 0.01 % (1 kHz)
S/N ratio		Line in - Line out	More than 104 dB (IHF A)
Crosstalk		Line in - Line out	Less than -90 dB (1 kHz)
Others			
ANTENNA IN a-b		BNC x 2, DC 9 V OUT	
Microphone power supply		DC 48 V, MIC1-6 Inputs	
GENERAL			
Power requirement		120/220/230 V AC, 50/60 Hz	
Power Consumption		150 W	
Operating temperature		0°C to +40°C (+32°F to +104°F)	
Storage temperature		-20°C to +60°C (-4°F to +140°F)	
Dimensions		482 (W) x 132 (H) x 350 (D) mm, 3U (19 x 5 1 /4 x 13 7 /8 inches)	
Mass		Approx. 13 kg (28 lb 11 oz)	
Supplied Accessories		AC Power cord (1), Operating manual (1), IR Transmitter (1), Foot (4), Control software disk (1) * Requires Microsoft Windows 98SE/ME/ 2000/XP	
Optional Accessories		WRU-806 UHF Synthesized Tuner Unit AN-820A UHF Antenna	

SPEAKER OUTPUTS

Output	Connector	Impedance	Rated Power
CH1	Screw type binding terminal x 4	4 Ω -16 Ω	150 W (8 Ω) 200 W (4 Ω)
CH2		4 Ω -16 Ω	150 W (8 Ω) 200 W (4 Ω)
70V LINE		32 Ω -10 kΩ	Max 150 W

AUDIO INPUTS/OUTPUTS

Input	Connector	Circuit	Channel	Reference/Peak Level	Impedance
MIC/WL 1,	2 XLR-3-31type	Balanced	Mono	-60 to -45 dBu/-37 to -22 dBu	more than 2.2 kΩ
MIC 3, 4	XLR-3-31type	Balanced	Mono	-60 to -45 dBu/-37 to -22 dBu	more than 2.2 kΩ
MIC 5, 6	XLR-3-31type	Balanced	Mono	-60 to -45 dBu/-37 to -22 dBu	more than 2.2 kΩ
(LINE 1, 2)				-10 to +4 dBu/-+10 to +24 dBu	more than 10 kΩ
LINE 3	Phono x 2	Unbalanced	Stereo	-10 to 0 dBu/+10 dBu to +20 dBu	more than 10 kΩ
LINE 4 (A, B, C, F)	Phono x 2	Unbalanced	Stereo	-10 to 0 dBu/+10 dBu to +20 dBu	more than 10 kΩ
LINE 4 (D, E)	Phono x 6	Unbalanced	Stereo/Surround	-10 to 0 dBu/+10 dBu to +20 dBu	more than 10 kΩ
Output	**Connector**	**Circuit**	**Channel**	**Reference/Peak Level**	**Load impedance**
LINE 1, 2	XLR-3-32type	Balanced	Mono	+4 dBu/+24 dBu	more than 600 Ω
LINE 3, 4, 5, 6, 7, 8	Phono x 1	Unbalanced	Mono	-5 dBu/+15 dBu	more than 10 kΩ
REC 1, 2	Phono x 1	Unbalanced	Mono	-5 dBu/+15 dBu	more than 10 kΩ

VIDEO/RGB INPUTS/OUTPUTS

Input	Connector	Signal Type
LINE 4 (A, B, C)	Phono x 1 4-pin Mini Din	Composite S Video
LINE 4 (D, E, F)	D-sub 15-pin	Component/RGB
Output	**Connector**	**Signal Type**
R/R-Y G/Y B/B-Y SYNC/HD VD	BNC x 5	Component/RGB
S VIDEO	4-pin Mini Din	S Video
VIDEO	BNC x 1	Composite

* Can switch inputs of Sony applicable Projectors automatically by using RS-232C control function when the switcher of SRP-X700P is operated.

REMOTE CONTROL TERMINAL

RS-232C ports	Connector	Function	Type
PROJECTOR CONTROL (RS-232C)	D-sub 9-pin x 1, male, inch standard	Input Selection, Power On/Standby (applicable Projectors/PDP: Sony VPL-FX50, VPL-PX21/31/32, PFM-42B1)*1*2	
RS-232C	D-sub 9-pin x 1, male, inch standard	Fully controlled Audio and Switch functions	
USB ports	**Connector**	**Function**	
USB (Front/Rear)	Series B connector x2	Fully controlled Audio and Switch functions	
Parallel I/O ports	**Connector**	**Function**	**Type**
PARALLEL IN (12-pin)	D-sub 25-pin x 1, female, milli standard	AV Selection(LINE 4), Power On/Off, Scene Recall, Volume, Volume Up/Down, Muting, Remote control of connected products with Control-S	Make-Contact CMOS level, active low
PARALLEL OUT (10-pin)		Output status of Pallalel Input Function (expect for status of Controlled products with Control-S)	Open collector
Control-S ports	**Connector**	**Function**	
OUTPUT 1-4	Mini Jack x 4	Play, Stop, Pause, FF, REC, PREV, NEXT (applicable AV Products: Sony VHS/8mmVTR/Betamax VTR/DV/CD/CDR/MD equiped with Control-S terminal, DVD by using supplied IR Transmitter)	
PROJECTOR IN	Mini Jack x 1	For the connection of Projector remote commander	
PROJECTOR OUT	Mini Jack x 1	Input Selection, Power On/Standby (applicable Projectors: Sony's VPL-PX15/10, PS10, CX11/10)*1*2	

*1 These applicable models are as of April 2002 and will increase in future. When using a external System Controller to control Projector, there is no restriction on the type of projector that can be used in the system.

*2 When both RGB and Component Video are used, it is necessary to connect RS-232C port of X700P to Projector/PDP. Because Control-S control function is unable to switch between RGB and Component Video.

Sony address/contact details/dealer stamp

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