## **SONY**®

# **Digital Powered Mixer**

**Operating Instructions** 

Before operating the unit, please read this manual thoroughly and retain it for future reference.



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# WARNING

#### English

#### WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

#### Français

#### **AVERTISSEMENT**

Afin d'éviter tout risque d'incendie ou d'électrocution, ne pas exposer l'appareil à la pluie ou à l'humidité.

Afin d'écarter tout risque d'électrocution, garder le coffret fermé. Ne confier l'entretien de l'appareil qu'à un personnel qualifié.

#### Español

#### **ADVERTENCIA**

Para evitar incendios o el riesgo de electrocución, no exponga la unidad a la lluvia ni a la humedad.

Para evitar descargas eléctricas, no abra la caja. En caso de avería solicite los servicios de personal cualificado solamente.

#### Deutsch

#### VORSICHT

Um die Feuergefahr und die Gefahr eines elektrischen Schlages zu vermeiden, darf das Gerät weder Regen noch Feuchtigkeit ausgesetzt werden.

Um einen elektrischen Schlag zu vermeiden, darf das Gehäuse nicht geöffnet werden. Überlassen Sie Wartungsarbeiten stets nur einem Fachmann.

#### Nederlands

#### WAARSCHUWING

Stel het apparaat niet bloot aan regen of vocht, om gevaar van brand of een elektrische schok te voorkomen.

Open niet de behuizing, om gevaar van elektrische shokken te vermijden. Laat reparatiles aan de erkende vakhandel over.

#### Svenska

#### VARNING

Utsätt inte apparaten för regn och fukt för att undvika riskerna för brand och/eller elektriska stötar.

Öppna inte höljet. Det kan resultera i risk för elektriska stötar. Överlåt allt reparations- och underhållsarbete till fackkunniga tekniker.

#### Italiano

#### **ATTENZIONE**

Per evitare il pericolo di incendi o scosse elettriche, l'apparecchio non deve essere esposto alla pioggia o all'umidià.

Per evitare scosse elettriche, non aprire l'apparecchio. Per le riparazioni rivolgersi solo a personale qualificato.

#### Norsk

#### ADVARSEL

For å hindre brann og støtfare må enhetens overflate ikke utsettes for regn eller fuktighet.

For å unngå elektrisk støt må kassen ikke åpnes. Service må bare utføres av kvalifisert personell.

#### Suomi

#### VAROITUS

Tulipalon ja iskuvaaran välttämiseksi ei laitetta saa altistaa sateelle ja kosteudelle.

Sähköiskun välttämiseksi ei koteloa saa avata. Anna vain asiantuntijan suorittaa huolto.

#### Dansk

#### **ADVARSEL**

For at undgå faren for brand eller elektrisk stød må udstyret ikke udsættes for regn eller kraftig fugt.

Åbn ikke kabinettet, da der er risiko for elektriske stød. Overlad alle reparationer til kvalificeret servicepersonale.

#### Português

#### **ADVERTÊNCIA**

Para evitar o risco de incêndio ou de choques eléctricos, não exponha o aparelho à chuva nem à humidade.

Para evitar descargas eléctricas, não abra o aparelho. Peça assistência somente a técnicos especializados.

#### Notice for the Customers in the United Kingdom

#### WARNING: THIS APPARATUS MUST BE EARTHED

#### IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow	:	Earth
Blue	:	Neutral
Brown	:	Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol Y or coloured green or green-and-yellow. The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

## Precautions

## For the customers in Europe

This product with the CE marking complies with both the EMC Directive(89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European standards:

•EN60065 :Product Safety

•EN55103-1:Electromagnetic Interference(Emission)

•EN55103-2:Electromagnetic Susceptibility(Immunity)

This product is intended for use in the following

Electromagnetic Environment(s):

E1(residential),E2(commercial and light industrial),E3 (urban outdoors) and E4(controlled EMC environment ex. TV studio).

#### Peak inrush current

(1)Power ON, current probe method: 14A (240V)
(2)Hot switching inrush current, measured in accordance with European standard EN55103-1: 7A (230V)

#### Pour les clients européens

Ce produit portant la marque CE est conforme à la fols à la Directive sur la compatibilité électromagnétique (EMC) (89/ 336/CEE) et à la Directive sur les basses tensions (73/23/ CEE) émises par la Commission de la Communauté européenne.

La conformité à ces directives implique la conformité aux normes européennes suivantes:

•EN60065 :Sécurité des produits

•EN55103-1:Interférences électromagnétiques (émission)
•EN55103-2:Sensibilité électromagnétique (immunité)
Ce produit est prévu pour être utilisé dans les environnements électromagnétiques suivants:
E1(résidentiel),E2(commercial et Industrie légère),E3 (urbain extérieur) et E4(environnement EMC contrôlé ex. studio de télévision).

#### Appel de courant de créte

(1)Mise sous tension (ON), méthode de sondago du courant: 14A (240V)
(2)Mesuré conformément à la norme européenne EN55103-1: 7A (230V)

## Für Kunden in Europa

Dieses Produkt besitzt die CE-Kennzeichnung und erfüllt sowohl die EMV-Direktive (89/336/EEC) als auch die Dilevtive Niederspannung (73/23/EEC) der EG-Kommission. Die Erfüllung dieser Direktiven bedeutet Konformität für die folgenden Europäischen Normen: •EN60065 :Produktsicherheit •EN55103-1:Elektromagnetische Interferenz(Emission) •EN55103-2:Elektromagnetische Empfindlichkeit(Immunität) Dieses Produkt ist für den Einsatz unter folgenden elektromagnetischen Bedingungen ausgelegt: E1(Wohnbereich),E2(kommerzleller und in beschränktem Maße industrieller Bereich),E3(Stadtbereich im Freien) und E4(kontrollierter EMV-Bereich, z.B. Fernsehstudio).

#### Spitzenstrom

(1)Einschaltstrom, Stromsonde: 14A (240V)(2)Gemossen in EN55103-1: 7A (230V)

#### On safety

- To prevent fire, do not Cover the ventilation of the apparatus with news papers, table-cloths, curtains, etc. And don't place lighted candles on the apparatus.
- To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.
- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.

#### **On installation**

Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

#### On operation

- Before making program source connections, be sure to turn the power switch off and unplug the unit.
- •When the unit is not used, turn the power off to conserve energy and to extend the useful life of your unit.

#### On cleaning the cabinet

Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

#### On repacking

Do not throw away the carton and the packing material. It makes an ideal container for transport the unit in. When shipping the unit for repair work or to another location, repack it as it was.

If you have any questions or problems concerning your unit, please contact your nearest Sony dealer.

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This unit can be used even without setting the parameters by using the supplied SRP-X700P Manager software. See page 17 for the default parameters when shipped from the factory.

#### CONTENTS OF SUPPLIED CD-ROM

The supplied CD-ROM contains the two applications SRP-X700P Manager and User Control Panel. In addition to the two applications, the supplied CD-ROM contains the dedicated USB driver software, the Control Software Manual and the SRP-X700P Operating Instructions.

The Control Software Manual and the SRP-X700P Operating Instructions are supplied as PDF files.

To open these files, Adobe  $\mathsf{Acrobat}^{\scriptscriptstyle(\!\!\!\!\ensuremath{\mathbb{B}}\)}$  Reader must be installed into your PC.

To get Adobe Acrobat Reader, download from www.adobe.com

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The SRP-X700P is a versatile digital powered mixer that incorporates an audio mixer, RGB/video switcher, processor and power amplifier in the 3U rack size.

#### **Built-in digital mixer**

The digital mixer incorporates A/D and D/A converters operating at 24 bit/48 kHz sampling and a high-performance DSP. In addition to the usual functions of conventional ordinary audio mixers, the SRP-X700P offers functions such as a feedback reducer in the independent channel and automatic mixing by using digital technology.

#### Many audio input/output terminals

Six microphone input systems and two stereo line input systems can be freely assigned to ten output systems.

#### Support for RGB/Component signals

The SRP-X700P is equipped with three composite/S-video input systems and three RGB/component input systems. This broad input system eliminates need for a separate RGB switcher and video switcher and enables simple system configuration. The SRP-X700P supports high-resolution component signals such as 480 p and 1080 i, and also supports SXGA<sup>1)</sup> (1280 × 1024 pixels) of RGB signals.

#### Built-in power-saving digital amplifier

A power amplifier of  $150 \text{ W} + 150 \text{ W} (8 \Omega)$  or 200 W + 200 W(4  $\Omega$ ) is incorporated. The rated power consumption is almost twothirds that of the conventional amplifier. The SRP-X700P also supports high impedance speakers  $150 \text{ W} (70 \text{ V LINE}, 32 \Omega)$ .

#### Support for 5.1-channel audio input

4D and 4E INPUT terminals of LINE4 INPUT terminal support 5.1-channel audio input.

#### Useful external remote terminal

• RS-232C terminal

This terminal enables outside personal computer and system controller to control various operations of the SRP-X700P. This terminal can also be used to turn on the power of a Sony projector and plasma display, or put it in STANDBY. It also can be used to select the input signals.

- Equipped with Control S output terminal Basic operations (playback, stop, fast forward, rewind, etc.) of the Sony AV products are possible.
- Equipped with parallel input and output terminals Input selection, volume control and scene control of the SRP-X700P can be performed in the input terminal. Operation of environment equipment such as screen and lighting, and the status display of the SRP-X700P can be performed via the output terminal.

## Installation of two systems of 800 MHz band wireless tuner units WRU-806B (option)

Mountable in the EIA standard 19-inch rack (occupying 3U size)

## Setting up and operating the SRP-X700P using the supplied software

The CD-ROM supplied with the SRP-X700P contains two software applications. One is the User Control Panel that enables an external personal computer to perform basic operations (sound volume adjustment, input selection and scene control) of the SRP-X700P and also the basic operations (playback, stop, fast forward, rewind, etc.) of a Sony DVD, VCR, CD and MD. The other is SRP-X700P Manager, which enables you to perform internal settings of the SRP-X700P.

<sup>1)</sup> SXGA are registered trade marks of the International Business Machines Corporation, U.S.A.

# Location and function of parts

## Front panel



#### **1** POWER button and POWER indicator

Pressing the POWER button turns on the power. The POWER indicator lights in green when the power turns on.

You can switch the projectors and displays connected to the SRP-X700P, to power-on state or to power standby state from the SRP-X700P as they are interlocked by the SRP-X700P Manager setup.

By default when shipped from the factory, the projectors and displays powers are interlocked with the POWER button of the SRP-X700P.

Turning on the POWER button of the SRP-X700P, sets the AV equipment connected to the CONTROL S OUT terminals 1 through 4, to power-on state. Note that the AV equipment does not enter the power standby state when the POWER button of the SRP-X700P is turned off.

#### **2** Input faders

#### • MIC1/WL1 and MIC2/WL2 faders

Adjusts the level of the signals supplied from the MIC1/ WL1 and MIC2/WL2 input terminals.

Either a wireless microphone or wired microphone can be connected. When the wireless tuner receives the signal, the wireless microphone is selected automatically.

• MIC3 and MIC4 faders

Adjusts the level of the signals supplied from the MIC3 and MIC4 input connectors.

#### • MIC5/LINE1 and MIC6/LINE2 faders

Adjusts the level of the signals supplied from the MIC5/ LINE1 and MIC6/LINE2 input terminals. The MIC/LINE selector button on the rear panel can be used to switch the reference input level.

By default, LINE is selected.

#### • LINE3 and LINE4 faders

Adjusts the level of the signals supplied from the LINE3 and LINE4 input terminals.

These input faders are not the "moving" type.

#### **3** Input indicators

• SIGNAL indicator The SIGNAL indicator lights in green when a signal is input to each input terminal.

• OVER GAIN indicator

The OVER GAIN indicator lights in red when the input level exceeds the GAIN LIMIT value that is set up by the SRP-X700P Manager.

By default, the GAIN LIMIT is set to 10 dB.

• -∞ indicator

The  $-\infty$  indicator lights in yellow when no audio is output in such cases as muting or when the INPUT fader is located at the  $-\infty$  level position.

#### 4 Tuner slots (WL 1/2)

This slot accepts the 800 MHz band wireless tuner unit WRU-806B (option). It accepts up to two units. (For installation, refer to page 10.) The WRU-806B Operating Instructions provide full details on operating the tuner unit. For operation of the tuner unit, read the WRU-806B Operating Instructions thoroughly.

#### **5** LINE 4 SELECT button

You can select a device to be connected to the input connectors from A to F of LINE 4.

#### 6 Master volume

With the master volume, you can control multiple faders that are set as a single group. The faders to be controlled by the master volume are set by the SRP-X700P Manager. By default, the MASTER A is set to MIC1 to MIC4 input faders, and the MASTER B is set to LINE1 to LINE4 input faders.

The master volume is not the "moving" type.

• OVER GAIN indicator

The OVER GAIN indicator lights in red when the input level exceeds the GAIN LIMIT value that is set by the SRP-X700P Manager.

By default, the GAIN LIMIT is set to 10 dB.

-∞ indicator

The  $-\infty$  indicator lights in yellow when no audio is output in such cases as muting or when the INPUT fader is located at the  $-\infty$  level position.

#### **7** Power amplifier indicators

#### PROTECTION indicator

The PROTECTION indicator lights in red when the protection circuit of the internal power amplifier works.

CLIP indicator

The CLIP indicator lights in red when the output level of the internal power amplifier is excessive such that the output signal is distorted.

#### Notes

#### When the PROTECTION indicator lights

The protection circuit operates (PROTECTION indicator lights) and the speaker and amplifier are protected from damage by decreasing or cutting the output signal in case of the following:

• If the temperature of the heat sink inside the amplifier exceeds the specified value.

The connected speaker impedance is too low. Air intake and exhaust holes (on the right and left sides of the SRP-X700P) are choked by dust.

- The SPEAKERS terminal is short-circuited. In such a case, turn the POWER button to the OFF position and remove the cause of the fault before using the unit again.
- If DC voltage appears in the SPEAKERS terminal due to failure.

Turn off the POWER button and contact your local Sony Sales office or Dealer.

#### **8** Level meters

Displays the output signal levels of the LINE OUTPUT 1 to LINE OUTPUT 8 terminals, with the 5-point LED.

#### 9 LOCK indicator

The LOCK indicator lights in red when the SRP-X700P Manager locks the front panel to prevent illegal operation. While lit, you cannot operate from the front panel.

#### **10** RS-232C indicator

The RS-232C indicator lights in green when a command is sent or received through the RS-232C remote terminal.

#### **11** USB indicator

The USB indicator lights in green when a command is sent or received through the USB terminal.

#### **12** USB terminal

Connect the SRP-X700P to a computer in which the supplied software (SRP-X700P Manager and User Control Panel) is installed using the USB terminal.

#### **13** SCENE RECALL button

You can recall the scene memories A to D. Use the SRP-X700P Manager to assign the scenes to the scene memories A to D.

By default, the scene memory A is assigned to scene No. 1, the scene memory B is assigned to scene No. 2, the scene memory C is assigned to scene No. 3 and the scene memory D is assigned to scene No. 4.

# Location and function of parts

**Rear panel** 



## **1** MIC INPUT 1 and MIC INPUT 2 terminals

The microphone input terminals.

The wireless microphone has the first priority when the tuner unit is installed.

You can use the wired microphone up until you turn ON the POWER button of the wireless microphone.

- **2** MIC INPUT 3 and MIC INPUT 4 terminals The microphone input terminals.
- **3** MIC 5/LINE 1 IN and MIC 6/LINE 2 IN terminals

The microphone and line input terminals.

You can select the input level of these input terminals with the **19** MIC/LINE selector button. When you select the microphone level by pressing the selector button, the DC +48 V power is supplied to the condenser microphone automatically.

By default, they are set to the LINE.

#### 4 LINE 3 IN terminals

The input terminals for audio products.

#### 5 LINE 4 INPUT terminals

The input terminals for AV equipment.

As to the video input signals, the combination of composite signal and S-video signal or the combination of component signal and RGB signal is selected by the SRP-X700P Manager for each channel.

#### • 4A, 4B and 4C input terminals

The video input terminals for accepting the composite and S-video signals, and the stereo audio input terminal. By default, they are set to -10 dBu with the composite signal.

4D and 4E input terminals

The video input terminals for accepting the component and RGB signals, and the audio input terminal accepting the 5.1channel surround audio signal.

By default, 4D is set to -10 dBu with the component signal and 4E is set to -10 dBu with the RGB signal.

#### • 4F input terminal

The video input terminals for accepting the component and RGB signals, and the stereo audio input terminal. By default, it is set to -10 dBu with the RGB signal.

<LINE4 INPUT COMPONENT/RGB terminal>



Pin No.	Function	Pin No.	Function
1	Video input R/R-Y	9	N.C
2	Video input G/Y	10	GND
3	Video input B/B-Y	11	N.C
4	GND	12	N.C
5	N.C	10	Composite sync signal/
6	GND	13	horizontal sync signal, SYNC/HD
7	GND	14	Vertical sync signal VD
8	GND	15	N.C

- 6 LINE OUTPUT 1 and LINE OUTPUT 2 terminals The audio output terminals.
- **[7] LINE OUTPUT 3 to LINE OUTPUT 8 terminals** The audio output terminals.

#### 8 REC OUT terminal

The audio output terminal. Usually, connect this terminal to an MD unit for recording.

#### 9 SPEAKERS terminal

The output terminal of the internal power amplifier. You can connect a high impedance speaker (70 V LINE). (In the case of high impedance speaker 70 V LINE, the output signal becomes monaural.) You can select the output signal and operating mode with the SRP-X700P Manager. By default, the operating mode is set to Lo impedance and the output signal is set to LINE OUT1 and LINE OUT2. For the speaker connection, see "Connecting the Speaker" on page 13.

#### **10** Video output terminals

The video signal that is selected by the LINE 4 SELECT button on the front panel is output from this terminal. (The video signal format is not converted from each other.)

5BNC output terminals

The RGB and component signal output terminals.

- VIDEO terminal The composite signal output terminal.
- S-VIDEO terminal The S-VIDEO signal output terminal.

#### 11 CONTROL S OUTPUT 1 to CONTROL S OUTPUT 4 terminals

You can control AV equipments connected to the LINE 3 IN terminal and LINE 4 INPUT terminal by remote control through these terminals.

#### Note

The AV equipment connected to the LINE3 IN terminal cannot be controlled from supplied software User Control Panel.

You can perform the basic operations of Sony DVD, VCR, CD, MD and CD-R audio, such as playback, stop, fast forward and rewind. You can select either the wired connection or the wireless connection for each terminal from the SRP-X700P Manager.

#### **12 PROJECTOR CONTROL terminals**

The SRP-X700P can controls a applicable projector and plasma display connected to the video output terminals from this terminal.

By default, connection to use the VPL-FX50 is set through RS-232C.

• RS-232C terminal

This terminal is for a projector or plasma display having the RS-232C terminal.

#### CONTROL S IN/OUT terminal

The SRP-X700P can control a projector without the RS-232C terminal through the CONTROL S.

When controlling a projector using the CONTROL S OUT terminal, mixed use of the component signal and the RGB signal is not possible.

#### **13 REMOTE PARALLEL terminal**

The parallel remote terminal contains 12 INPUTs and 10 OUTPUTs.

You can control the SRP-X700P from external remote equipment using the INPUT parallel remote pins. You can control the external remote equipment from the SRP-X700P using the OUTPUT parallel remote pins. You can select the functions of the respective terminals using the supplied SRP-X700P Manager software.

#### **14 REMOTE RS-232C terminal**

The RS-232C remote terminal.

You can control the SRP-X700P with external equipment connected to the RS-232C terminal from a remote location.

#### **15 REMOTE USB terminal**

You can connect a personal computer in which the supplied software (SRP-X700P Manager and User Control Panel) is installed, to the SRP-X700P through the USB terminal. Note that the USB terminal on the front panel has priority if the USB terminal on the front panel is being used.

#### **16** ANT IN terminal

The antenna input terminal for the wireless tuner. Connect a UHF antenna of the AN-820A (option). 9V power is supplied from this terminal as the power for the antenna booster. Do not connect any antenna other than the AN-820A, otherwise the system may not work or may cause failure.

#### Note

For details of installation and connection of an antenna, thoroughly read the operating instructions supplied with the antenna.

If the antenna is not installed correctly, it may cause defective reception resulting in intermittent sound. Especially, if the location cannot be changed easily after installing the antenna, check the operations thoroughly prior to installation. Connect the antenna using coaxial cable having the impedance of 50  $\Omega$ . The maximum length of the cable is approximately 50 m with 5D-FB. Do not use the cable of a 75  $\Omega$  system such as 5C-2V, as its maximum length is half that

of the 5D-FB and it may cause a trouble.

#### If noise occurs:

There can be a case that a specific channel cannot be used due to external noise or the noise caused by interference radio wave depending on the installation location. In such a case, find a channel that does not illuminate the RF indicator when the wireless microphone power and the transmitter power are turned off (i.e., the channel that is not adversely affected by noise and interference radio wave). Use the unaffected channel. Select the same unaffected channel for the wireless microphone and the transmitter.

#### **17** AC IN terminal

Connect the power cord supplied to this terminal.

#### **18** + 48 V button

Press this button to supply the DC +48V condenser microphone power to the MIC INPUT 1 to MIC INPUT 4 terminals. When this button is pressed ON (<u>n</u>), DC +48 V is output.

By default, this button is set to OFF  $(\square)$ .

#### **19 MIC/LINE** selector button

You can select the input level of the MIC 5/LINE 1 IN and MIC 6/LINE 2 IN terminals with this button. (Refer to page 20.) Also, when this button is set to the (+48 V) MIC (\_\_) position, the DC +48 V condenser microphone power is output automatically.

By default, this button is set to LINE  $(\square)$ .

#### Notes

- The depressed position, which is the ON position, of both the +48 V button and the MIC/LINE selector button is lower than the face of the rear panel. The depressed ON position is designed intentionally to prevent mis-operation.
- Before you make any attempt to disconnect and connect cables or to press any of the +48 V button, MIC/LINE selector button or other buttons, be sure to decrease the input fader completely or to turn off the power.

#### **20 CIRCUIT BREAKER**

The circuit breaker works to turn off the main power of this unit if an excessive current flows in the power supply of this unit. If the circuit breaker trips, please contact your local Sony Sales office or Dealer.

# Location and function of parts

## **Tuner Unit**

### How to install the tuner unit

- **1** Turn off the power of this unit.
- **2** Remove the tuner cover.
- **3** Check the up and down sides of the tuner unit, and insert it into the slot. (Fig. 1)



**4** After installation of the tuner unit, turn on the power of the unit and turn on the power of the wireless microphone to check it is receiving. While receiving, the RF/SIGNAL indicator lights up. Note that the RF/SIGNAL indicator will not light up when the setting channel of the microphone is different from the setting of the tuner unit, or when the microphone power is consumed.

#### Notes

Take the following precautions to prevent interference and noise.

- If there is a TV broadcasting station nearby, to avoid possible interference from its broadcasting, do not use that station's channel.
- When simultaneously using two tuners, always set the tuners to different channels within the same group (other than group 00).
- Please make a choice of model in accordance with your area to use picking up an unused TV channel.
- Make sure that the channel selected on the microphone is the same as that selected on the tuner being used in the same system.

## How to remove the tuner unit

- **1** Turn off the power of this unit.
- **2** Insert a screwdriver having the shaft diameter of 2 to 4 mm or less with shaft length of 30 mm or longer, into the hole under the lower part of the tuner slot as shown. Remove the tuner unit. (Fig. 2)

# Fig. 2

#### Note

Insert it deeply into the slot.

Do not insert or remove the tuner unit while the power is on. This may cause noise or malfunction of the connector.

#### CAUTION

To prevent breakdown or injury, do not put your hand inside of the slot.

Please refer to the table Sony 800 MHz-band system models frequency range in the Operating Manual of Wireless Microphone or Transmitter.



#### **1** GP (group) button

To change the group, press the + or – button while holding this button down.

#### **2** CH (channel) button

To change the channel in a group, press the + or – button while holding this button down.

#### **3** + button

To go to a higher group or channel, press this button while holding the GP or CH button. Press this button changes the indication from GP/CH to

frequency.

#### 4 – button

To go to a lower group or channel, press this button while holding the GP or CH button.

#### **5** AF (audio frequency) indicator

#### **6** AF (audio frequency) level indications

The indicator lights and the indications appear when the audio output level is higher than the reference level.

#### **7** BATT (battery) indicator

#### **8** BATT (battery) indication

Indicate the condition of the wireless microphone transmitter batteries. The indicator and indication appear and start flashing about one hour before the transmitter batteries go flat. The time at which flashing begins will depend on the type of battery used in the transmitter, and its condition.

#### **9** GP/CH (group/channel) indication

Shows the reception channel group and respective channel number.

Pressing the + button changes this indication to the frequency indication.

#### **10 RF** (ratio frequency) level indications

#### **11 RF** (ratio frequency) indicator

The indicator lights and the indications (dots) appear when the antenna reception is optimal. Depending on the RF input level, the number of dots changes.

# How to Control the Display from the SRP-X700P

You can connect the following projectors and displays to the SRP-X700P. For setting the projectors and displays, refer to the "PROJECTOR CONTROL Block" described on page 18 of the Control Software Manual.

Model	Vid	eo terminal	RS-232	C control	CONTROL S control		
name	X700P side	Input terminal of connection destination	X700P side	Remote terminal of Connection destination	X700P side	Control S terminal of connection destination	
VPL-FX50	5BNC output terminal	INPUT A 5BNC terminal					
VPL-PX21 VPL-PX31	S-VIDEO terminal	VIDEO IN S-VIDEO terminal	CONTROL	RS-232C terminal			
VPL-PX32	VIDEO terminal	VIDEO IN VIDEO terminal	(RS-232C) terminal				
	5BNC output terminal	INPUT1 RGB/YUV terminal					
PFM-42B1	S-VIDEO terminal	VIDEO Y/C IN terminal	CONTROL	REMOTE terminal			
	VIDEO terminal	VIDEO COMPOSITE IN terminal	(RS-232C) terminal				
	5BNC output terminal	INPUT A terminal				CONTROL S/ PLUG IN POWER	
VPL-PX15	S-VIDEO terminal	S-VIDEO terminal			PROJECTOR OUT		
VPL-PS10	VIDEO terminal	VIDEO terminal			terminai	terminal	
	5BNC output terminal	INPUT A terminal				CONTROL S IN/ PLUG IN POWER	
VPL-CX11 VPL-CX10	S-VIDEO terminal	VIDEO IN S-VIDEO terminal			PROJECTOR OUT		
	VIDEO terminal	VIDEO IN VIDEO terminal			terminai	terminal	
PLC-XP45 PLC-XP40 made by	5BNC output terminal	INPUT2 5BNC terminal					
	S-VIDEO terminal	INPUT3 S-VIDEO terminal	CONTROL	CONTROL PORT terminal			
Electric	VIDEO terminal	INPUT3 VIDEO terminal	(HS-232C) terminal				

#### Note

Models other than those above may be supported. For details, please contact your local Sony Sales office or Dealer. List of the supported models shown above is as of April 1st, 2002. Maximum RS-232C cable length is 15 m or less.

## **PROJECTOR CONTROL RS-232C Terminal**

**To connect the RS-232C terminal of applicable projectors and that of plasma display to this terminal;** This model can switch the input signals and power ON/STANDBY of the projector and plasma display in interlocked condition.

<srp-x700p sid<="" th=""><th>de&gt;</th><th><math display="block"> \begin{array}{c} 5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 9 \\ 6 \end{array} </math></th><th>(D-sub 9-pin, male)</th><th><sony projecto<br="">plasma displa</sony></th><th>or/ ay side&gt;</th><th></th><th><math display="block"> \begin{array}{c} 5 \\ 0 \\ 0 \\ 0 \\ 9 \end{array} \bigcirc (\text{Dub-sub}) </math></th><th>9-pin, female)</th></srp-x700p>	de>	$ \begin{array}{c} 5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 9 \\ 6 \end{array} $	(D-sub 9-pin, male)	<sony projecto<br="">plasma displa</sony>	or/ ay side>		$ \begin{array}{c} 5 \\ 0 \\ 0 \\ 0 \\ 9 \end{array} \bigcirc (\text{Dub-sub}) $	9-pin, female)
	Pin No.	Signal	Function		Pin No.	Signal	Function	
	1	FG	Frame ground		1	FG	Frame ground	
	2	RD	Receive data		2	RX DA	Receive data	
	3	TD	Send data		3	TX DA	Send data	
	4	ER	Data terminal ready		4	DTR	Data terminal ready	
	5	SG	Signal line ground		5	GND	Ground	
	6	DR	Data set ready		6	DSR	Data set ready	
	7	RS	Request to send		7	RTS	Request to send	
	8	CS	Clear to send		8	CTS	Clear to send	
	9	N.C	Not connected		9	RI	Called display	

## **PROJECTOR CONTROL CONTROL S IN/OUT Terminal**

The SRP-X700P can switch the input signals and power ON/STANDBY of the projector automatically when CONTROL S cable is connected to Sony's projector as interlocked operation. The RGB signal and the component signal cannot be connected at the same time for the interlocked operation. Connect the wired remote commander supplied with a projector to the CONTROL S IN terminal. Then you can establish various setups of a projector from the SRP-X700P. If you want to use the wired remote commander on battery, locally fabricate a connecting cord with STEREO mini plug connected at one end, for supplying the power.



## How to Control the SRP-X700P from External Equipment

#### Note

The USB terminal is the dedicated terminal to control this unit from the SRP-X700P Manager and User Control Panel.

## **REMOTE RS-232C Terminal**

Use of this terminal enables you to control the SRP-X700P from an external controller.

The specifications of the communication protocol are shown below.

Terminal shape	: D-sub 9-pin, male
Electrical specifications	: Conforms to RS-232C standard
Recommended cable	: Multi-core shielded cable for data communication
Cable length	: 15 m or less
Communication format	
Baud rate	: 9600 bps
Bit length	: 8 bits
Stop bit	: 1 bit
Parity	: ODD (odd number)

Pin No.	Signal	Function
1	FG	Frame ground
2	RD	Receive data
3	TD	Send data
4	ER	Data terminal ready
5	SG	Signal line ground
6	DR	Data set ready
7	RS	Request to send
8	CS	Clear to send
9	N.C	Not connected

#### Note

Use the null modem cable when connecting the SRP-X700P with computer.

## **REMOTE PARALLEL Terminal**

The REMOTE PARALLEL terminal enables the SRP-X700P to be remotely controlled with a simple circuit connected externally to this terminal.

#### **INPUT terminal**

You can set the functions of the respective terminals from the PARALLEL INPUT FUNCTION setup box in the REMOTE screen of the supplied SRP-X700P Manager software.

All faders and sound volume controls can be controlled from a remote location by connecting a variable resistor as shown, in the range of 0 to  $-\infty$  dB.

You can perform the following operations by adding a make contact.

- Input selection of LINE 4 system
- Muting ٠
- Scene recall
- Sound volume adjustment (Up/Down)
- Controlling the AV equipment connected to the CONTROL S terminal
- · Power-ON/STANDBY selection of a projector

#### **OUTPUT terminal**

The turning ON conditions of the respective pins of the OUTPUT terminal can be set from the following.

- · Input selector state of LINE 4 system
- Turning ON the OVER and -∞ indicators
- · Turning ON the scene recall button
- Generation of the Power-ON/STANDBY command of a projector

You can select the ON conditions from the PARALLEL OUTPUT FUNCTION setup box on the REMOTE screen of the supplied SRP-X700P Manager software.



(D-sub 25-pin, female)

#### <Example of input circuit>

![](_page_11_Figure_32.jpeg)

#### <Example of output circuit>

![](_page_11_Figure_34.jpeg)

#### Note

Do not apply any reverse voltage across the output terminal.

Pin No.	Function
1	GND
2	INPUT1
3	INPUT2
4	INPUT3
5	INPUT4
6	INPUT5
7	INPUT6
8	INPUT7
9	INPUT8
10	INPUT9
11	INPUT10
12	INPUT11
13	INPUT12
14	GND
15	OUTPUT1
16	OUTPUT2
17	OUTPUT3
18	OUTPUT4
19	OUTPUT5
20	OUTPUT6
21	OUTPUT7
22	OUTPUT8
23	OUTPUT9
24	OUTPUT10
25	GND

# **How to Control AV Equipment from the SRP-X700P**

The SRP-X700P can control the Sony equipment connected to the CONTROL S OUTPUT1 through 4 terminals. The functions which can be operated are as follows.

Note that the functions of REC, POWER ON, and POWER STANDBY cannot be operated from the supplied software SRP-X700P Manager and User Control Panel, to prevent the system from malfunctioning.

	PREV.	NEXT	STOP	REW.	PLAY	F.F.	PAUSE	REC	POWER ON	POWER STANDBY
MD CD-R Audio	0	0	0	0	0	0	0	0	0	0
VTR1 (Beta) VTR2 (8mm) VTR3 (VHS) VTR4 (DV)	_	_	0	0	0	0	0	0	0	0
CD DVD	0	0	0	0	0	0	0	_	0	0

#### Use the supplied IR transmitter VM-50 to control the Sony equipment that is not equipped with the **CONTROL S terminal.**

Confirm location of the remote control signal receptor part of the Sony equipment that you want to control, and fix the supplied IR transmitter VM-50 with a both-sided adhesive tape as shown below.

#### Setting Requirements

![](_page_12_Figure_7.jpeg)

Install the VM-50 inside a rack. Recess the IR receiver behind the IR LED by more than 10 cm. Install the IR receiver in the location that is within the range of 20 cm higher and 20 cm lower than the IR LED (as shown by the dotted line of the illustration). The IR receiver of the equipment should be located more than 5 cm far from the IR LED in the right and left.

#### Note

If any screening object is placed in between the IR LED and the IR receiver, the infrared ray is blocked to disable control of the external equipment.

• Operate the SRP-X700P Manager or the User Control Panel to confirm that it can control the Sony equipment. If they cannot control the equipment, change position of the supplied IR transmitter VM-50 until they can control the equipment.

#### **Connecting the Speaker**

Speaker connection method changes depending on the operating mode. When the "70 V LINE" mode is selected, the output signal becomes monaural. Connect the (+) terminal of a speaker to the (+) terminal (red) of SPEAKERS CH-1 and the (-) terminal of a speaker to the (+) terminal (red) of SPEAKERS CH-2.

 Connecting speakers with low impedance [Lo imp.]

![](_page_12_Figure_15.jpeg)

 Connecting speakers with high impedance [70 V LINE]

![](_page_12_Figure_17.jpeg)

The table below shows the number of speakers that can be connected in the high impedance [70 V LINE] mode.

Impedance	Power applied to each speaker	Number of speakers you can connect		
1 kΩ	5 W	30		
3.3 kΩ	1.5 W	100		
10 kΩ	0.5 W	300		

\* The notation in [ ] is displayed in the SRP-X700P Manager.

## System example when operating the SRP-X700P with the default setting when shipped from the factory

![](_page_13_Figure_2.jpeg)

If you use VHS and DV that can select their remote control mode, set the remote control mode of VHS to "VTR3" and set the remote control mode of DV to "VTR4".

![](_page_14_Figure_0.jpeg)

# System example when external operation panel and environment equipment are connected

•

For the external operation panel and interface box (I/F Box), see "System example when operating the SRP-X700P from the REMOTE PARELLEL terminal" on page 16.

# System example when operating the SRP-X700P from the REMOTE PARALLEL terminal

The REMOTE PARALLEL terminal of the SRP-X700P is shipped from the factory with the default setting on the premise of the external operation panel as described below.

![](_page_15_Figure_3.jpeg)

START button (SCENE No. 1 recall): Sets OUTPUT7 and OUTPUT9 to ON to lower the screen, to close the curtain, to darken the illumination and to start presentation. FINISH button (SCENE No. 2 recall): Sets OUTPUT8 and OUTPUT10 to ON to raise the screen, to open the curtain, to turn on the illumination and to end the presentation. EMG STOP button (SCENE No. 3 recall): Sets OUTPUT7 through OUTPUT10 to OFF to stop moving the screen and the curtain, and to turn on the illumination. Selector block: Switches the LINE4 INPUT terminals A through F.

MIC volume control: Controls the microphone sound volume. AV volume control: Controls sound volume of the AV equipment.

SR	P-X700P REM D-sub 2	OTE PARALLEL terminal 5-pin connector	External operation panel
Pin No.	Terminal name	Function name	
1	GND	GND	
2	INPUT1	VHS selection	VHS VCR selector button
3	INPUT2	DV selection	DV VCR selector button
4	INPUT3	Camera selection	Picture presentation camera selector button
5	INPUT4	DVD selection	DVD selector button
6	INPUT5	PC1 selection	PC1 selector button
7	INPUT6	PC2 selection	PC2 selector button
8	INPUT7	START	START (presentation start) button
9	INPUT8	FINISH	← ← FINISH (presentation finish) button
10	INPUT9	EMG STOP	Emergency stop button
11	INPUT10	Microphone sound volume	Microphone sound volume control (10kΩ B-curve)
12	INPUT11	AV equipment sound volume	AV equipment sound volume control (10kΩ B-curve)
13	INPUT12		
14	GND	GND	40mA or less
15	OUTPUT1	VHS selection tally	VHS VCR selection LED
16	OUTPUT2	DV selection tally	DV VCR selection LED
17	OUTPUT3	Camera selection tally	Picture presentation camera selection LED
18	OUTPUT4	DVD selection tally	DVD selection LED
19	OUTPUT5	PC1 selection tally	PC1 selection LED
20	OUTPUT6	PC2 selection tally	PC2 selection LED
21	OUTPUT7	Lowers the screen.	
22	OUTPUT8	Raises the screen.	
23	OUTPUT9	Close the curtain/turn off illumination.	
24	OUTPUT10	Open the curtain/turn on illumination.	
25	GND	GND	· · · · · · · · · · · · · · · · · · ·

#### Precaution on the environment interface box specifications

• The REMOTE PARALLEL output terminal provides the open-collector output of alternate operation. It means that the output terminal keeps outputting the ON signal after an output command is issued to move the environment equipment for scene recall and others, regardless of the operating condition of the environment equipment. The environment equipment motors should be stopped when you want to stop raising or lowering the screen or curtain, by the Interface Box.

• The Emergency Stop signal turns off the output signals at the OUTPUT7 to OUTPUT10 terminals.

Please create an Interface Box that stops moving the screen and the curtain, and turns on illumination when the output terminals are turned off.

![](_page_15_Figure_11.jpeg)

![](_page_15_Figure_12.jpeg)

# **Default settings**

#### INPUT

	Item		Initial setting		
	MIC1 - MIC4	–60 dBu			
TRIM	MIC5/LINE1, MIC6/	MIC5/LINE1, MIC6/LINE2			
	LINE3, LINE4A - 4F	:	–10 dBu		
	MIC1 - MIC4		ON		
LCF	MIC5/LINE1, MIC6/	MIC5/LINE1, MIC6/LINE2			
PEQ	L		OFF		
FR			OFF		
COMP			OFF		
MUTING			OFF		
GAIN LIMIT	+10 dB				
INPUT FADER			0 dB		
		Band 1	63 Hz		
	FREQ	Band 2	2.5 kHz		
MIC1 - MIC4		Band 3	20 kHz		
MIC5/LINE1,		Band 1	1.0		
MIC6/LINE2	Q	Band 2	1.5		
PEQ		Band 3	0.47		
	GAIN	Band 1 - 3	0 dB		
	5550	Band 1	63 Hz		
	FREQ	Band 2	20 kHz		
LINE3, LINE4	_	Band 1	1.0		
PEQ	Q	Band 2	0.47		
	GAIN	Band 1,2	0dB		

#### ROUTING

	Routing Mix leve					
MIC1/WL1			LINE OUT1, LINE OUT2		–20 dB	
			LINE OUT7, LINE OUT8, REC OUT1, REC OUT2		0dB	
			LINE OUT1, LINE OUT2		–20 dB	
MIC2/W	/L2		LINE OUT7, LINE OUT8, REC OUT1, RE	C OUT2	0 dB	
			LINE OUT1, LINE OUT2		–20 dB	
MIC3			LINE OUT7, LINE OUT8, REC OUT1, REC OUT2		0 dB	
			LINE OUT1, LINE OUT2		–20 dB	
MIC4			LINE OUT7, LINE OUT8, REC OUT1, RE	C OUT2	0 dB	
MIC5/LI	NE1		LINE OUT1, REC OUT1		0 dB	
MIC6/LI	NE2		LINE OUT2, REC OUT2		0 dB	
		L	LINE OUT1		0 dB	
LINE3		R	LINE OUT2		0 dB	
	A·B·C·F	L	LINE OUT1, REC OUT1		0 dB	
		R	LINE OUT2, REC OUT2		0 dB	
		L	LINE OUT1, REC OUT1		0 dB	
LINE4		С	LINE OUT5		0 dB	
	D·E	R	LINE OUT2, REC OUT2		0 dB	
		SW	LINE OUT6		0 dB	
		LS	LINE OUT3		0 dB	
	RS		LINE OUT4		0 dB	
			ROUTING		ATT LEVEL	
SP OUT CH1 CH2		CH1	LINE OUT1		–10 dB	
		CH2	LINE OUT2		–10 dB	
AUTOMATIC MIXER OFF						

#### OUTPUT

	Initial setting		
	OUTPUT1, OUTPUT2	+4 dBu	
REF LEVEL	OUTPUT3 - OUTPUT	–5 dBu	
	REC OUT1, REC OUT	Γ2	–5 dBu
HCF			OFF
EQ			OFF
DELAY			0 ms
MUTING			OFF
GAIN LIMIT			+10 dB
OUTPUT FADER			0 dB
		Band 1	25 Hz
		Band 2	40 Hz
		Band 3	80 Hz
		Band 4	160 Hz
		Band 5	315 Hz
OUTPUT1,	FREQ	Band 6	630 Hz
OUTPUT2		Band 7	1.25 kHz
EQ		Band 8	2.5 kHz
		Band 9	5 kHz
		Band 10	10 kHz
		Band 11	20 kHz
	Q	Band 1 - 11	1.5
	GAIN	Band 1 - 11	0 dB
	HCF	OFF	
		Band 1	63 Hz
	EREO	Band 2	250 Hz
	FREQ	Band 3	2.5 kHz
OUTPUT3 -		Band 4	20 kHz
OUTPUT8		Band 1	1.0
EQ	Q	Band 2, 3	1.5
		Band 4	0.47
	GAIN Band 1 - 4		0 dB
	HCF	OFF	
	MODE	1	Lo Imp.
SPEAKED	SELECT	CH1	OUTPUT 1
	SELEUI	CH2	OUTPUT 2
GOIFOI	ATT	CH1	10 dB
		CH2	10 dB

# **Default settings**

#### REMOTE

	Initial setting			
		INPUT1	AV SEL A	
		INPUT2	AV SEL B	
		INPUT3	AV SEL C	
		INPUT4	AV SEL D	
		INPUT5	AV SEL E	
	INPUT	INPUT6	AV SEL F	
		INPUT7	RECALL 1	
		INPUT8	RECALL 2	
		INPUT9	RECALL 3	
		INPUT10	LVL Master A	
		INPUT11	LVL Master B	
PARALLEL I/O		INPUT12	NONE	
		OUTPUT1	AV SEL A	
		OUTPUT2	AV SEL B	
		OUTPUT3	AV SEL C	
		OUTPUT4	AV SEL D	
	OUTPUT	OUTPUT5	AV SEL E	
		OUTPUT6	AV SEL F	
		OUTPUT7	RECALL 1	
		OUTPUT8	RECALL 2	
		OUTPUT9	RECALL 1	
		OUTPUT10	RECALL 2	
		MACHINE TYPE	MD	
	LINE3	CTRL S OUTPUT CH	1	
	LINE4A	MACHINE TYPE	VTR3 (VHS)	
		CTRL S OUTPUT CH	2	
		MACHINE TYPE	VTR4 (DV)	
	LINE4B	CTRL S OUTPUT CH	2	
		MACHINE TYPE	NONE	
MACHINE	LINE4C	CTRL S OUTPUT CH	1	
CONTROL		MACHINE TYPE	DVD	
	LINE4D	CTRL S OUTPUT CH	3	
	LINE4E,	MACHINE TYPE	NONE	
	LINE4F	CTRL S OUTPUT CH	1	
		CH1	WIRED	
	CONNECTION	CH2	WIRED	
	TYPE	СНЗ	IR	
		CH4	WIRED	
	I/F TYPE	RS-232C		
	PROJECTOR P	VPL-FX50		
PROJECTOR	REMOTE POW	REMOTE POWER ENABLE		
CONTROL		LINE4A - LINE4C	VIDEO	
		LINE4D	COMPONENT	
	IYPE	LINE4E, LINE4F	RGB	

#### **GROUP FADER**

Item	Initial setting
MASTER A	MIC1/WL1, MIC2/WL2, MIC3, MIC4
MASTER B	MIC5/LINE1, MIC6/LINE2, LINE3, LINE4
REMOTE1 - REMOTE6	Not assigned

# **Block Diagram**

![](_page_18_Figure_1.jpeg)

# **Specifications**

#### AUDIO INPUT/OUTPUT

Input	Terminal shape	Circuit	Channel	Reference input level	Maximum input level	Impedance
MIC 1/WL 1, MIC 2/WL 2, MIC 3, MIC 4	XLR 3-31type	Balanced	Monaural	-60 to -45 dBu	-37 to -22 dBu	2.2 kΩ or more
MIC 5/LINE 1	XLR 3-31type	Balanced	Monoural	-60 to -45 dBu	-37 to -22 dBu	2.2 k $\Omega$ or more (in MIC mode)
MIC 6/LINE 2	AER 5 5 Hype	Balanceu	Wionaurai	-10 to +4 dBu	+10 to +24 dBu	$10 \text{ k}\Omega$ (in LINE mode)
LINE 3	Pin	Unbalanced	Stereo	-10 to 0 dBu	+10 dBu	$10 \text{ k}\Omega$ or more
LINE 4 (A B C F)	Pin	Unbalanced	Stereo	-10 to 0 dBu	+10 dBu	$10 \text{ k}\Omega$ or more
LINE 4 (D E)	Pin	Unbalanced	Stereo/ 5.1 surround	-10 to 0 dBu	+10 dBu	$10 \text{ k}\Omega$ or more
Output	Terminal shape	Circuit	Channel	Reference output level	Maximum output level	Load impedance
LINE OUT 1-2	XLR 3-32type	Balanced	Monaural	-10/-5/0/+4 dBu	+24 dBu	$600 \Omega$ or more
LINE OUT 3-8	Pin	Unbalanced	Monaural	-10/-5/0 dBu	+15 dBu	10 k $\Omega$ or more
REC OUT 1-2	Pin	Unbalanced	Monaural	-10/-5/0 dBu	+15 dBu	$10 \text{ k}\Omega$ or more

#### SPEAKERS OUTPUT

Output	Terminal shape	Impedance	Maximum output
CH 1		$4 \Omega$ to $16 \Omega$	150 W + 150 W (8 Ω 1 kHz, T.H.D 10%)
CH 2	Screw-type terminal	$4 \Omega$ to $16 \Omega$	200 W + 200 W (4 Ω 1 kHz, T.H.D 10%)
70 V LINE		$32 \Omega$ to $10 k\Omega$	150 W (32 Ω 1 kHz, T.H.D 10%)

#### **VIDEO/RGB INPUT/OUTPUT**

Input	Terminal shape	Signal format	Level	Impedance
I INE A (A B C)	Pin	Composite	1 Vp-p (75Ω)	75 Ω
LINE 4 (A B C)	MINI Din	Y/C	1 Vp-p (Y)/0.3 Vp-p (C)	75 Ω
I INE 4 (D E E)	HD D sub 15 pin	Component/PGB	0.7 Vp-p (video signal)	75 $\Omega$ (video signal)
$LINE \neq (D E \Gamma)$	HD D-sub 13-pill	Component/KOB	1 to 5 V (sync signal)	47 k $\Omega$ (sync signal input)
Output	Terminal shape	Signal format	Level	Impedance
R/R-Y, G/Y, B/B-Y,	BNC	Component/PGB	0.7 Vp-p (video signal)	75 $\Omega$ (video signal)
SYNC/HD, VD	DIVC	Component/KOB	1 to 5 V (sync signal)	47 k $\Omega$ (sync signal input)
S-VIDEO	MINI Din	Y/C	1 Vp-p (Y)/0.3 Vp-p (C)	75 Ω
VIDEO	BNC	Composite	1 Vp-p	75 Ω

#### AUDIO

Frequency response	20 Hz to 20 kHz $\pm$ 0.5 dB	PROJECTOR CONTROL	
	(with LINE OUT, 1 kHz reference)	RS-232C	D-sub 9-pin (male)
T.H.D	0.01 % or less (LINE OUT, 1 kHz)	CONTROL S IN/OUT	Mini jack
S/N ratio	94 dB or more (LINE 3, LINE 4, IHF-A)	REMOTE	
Crosstalk	-85 dB or less (between LINE channels,	PARALLEL I/O	D-sub 25-pin (female)
	1 kHz with input cutoff)	IN	Make contact input
Equivalent input noise	level		Logic: C-MOS LEVEL active L
	-124 dBu or less (-60 dBu, with input		Input pulse width: 100 msec or more
	terminated in 150 $\Omega$ , IHF-A)	OUT	Open collector output
0 dBu = 0.775 V			Withstand voltage: +24 V or less
			Maximum sink current: 40 mA
VIDEO/S-VIDEO		RS-232C	D-sub 9-pin (male)
Frequency response	50 Hz to 10 MHz	USB (front/rear)	TYPE-B
COMDONENT/DCB		OTHERS	
	50 H	ANT IN terminal	BNC DC +9 V is supplied.
Frequency response	50 Hz to 150 MHz	. 40 37 1	

REMOTE

+48 V power supply

50 Hz to 150 MHz 480 p, 1080 i, 1280 × 1024 60 Hz (SXGA) supported

#### BNC DC +9 V is supplied. Supplied to MIC 1 to MIKE 6 XLR terminals. (For MIC 1 through MIC 5, supplied when the +48 V button is ON.) (For MIC 5 and MIC 6, supplied at MIC level setting only.)

General	
Power requirement	AC 230 V, 50/60 Hz
Power consumption	150 W
Dimensions	$482 \times 132 \times 350 \text{ mm} (\text{w/h/d})$
	$(19 \times 5^{-1}/_4 \times 13^{-7}/_8 \text{ inches})$
	(excluding protrusions)
Mass	Approx. 13 kg (28 lb 11 oz)
Operating temperature	$0^{\circ}$ C to $40^{\circ}$ C
Storage temperature	$-20^{\circ}$ C to $60^{\circ}$ C
Supplied accessories	Power cord (1), Foot (4), CD-ROM (1),
	IR transmitter VM-50 (1),
	Operating instructions (1)
Optional accessories	UHF antenna AN-820A,
	UHF synthesizer tuner unit WRU-806B

Design and specifications are subject to change without notice.

This unit conforms to "Harmonics Guideline".

## To prevent electromagnetic wave interference due to portable communication devices:

If communication devices such as cellular phones are used near this unit, incorrect operation may be caused or the image, sound, etc. may be affected. Turn off the power of all portable communication devices near this unit if possible.

## Dimensions

![](_page_20_Figure_6.jpeg)

# Troubleshooting

Before contacting us, please check the following again. If the trouble persists, please contact your local Sony Sales office or Dealer.

Start the supplied software SRP-X700P Manager and check the settings of the SRP-X700P. Check the following if the problem still cannot be solved.

Symptom	Cause/Remedy
Power is not turned on.	• Power cord is disconnected.
	$\rightarrow$ Firmly insert the power cord fully into the AC IN terminal and wall outlet.
No sound is output.	• Input fader is decreased.
	$\rightarrow$ Increase the input fader.
	• Master volume is decreased.
	$\rightarrow$ Increase the master volume.
	• ROUTING setup is incorrect.
	$\rightarrow$ Set the ROUTING correctly using the SRP-X700P Manager.
No microphone sound is output.	• MIC/LINE selector button is set to LINE.
	$\rightarrow$ Set the MIC/LINE selector button to MIC.
Sound is distorted.	• The LINE equipment is connected to MIC5/LINE 1 IN and MIC6/LINE 2 IN terminals
	while the MIC/LINE selector button is set to the MIC position.
	$\rightarrow$ Set the MIC/LINE selector button to LINE.
No video comes out.	Video input signal setup is incorrect.
	$\rightarrow$ Set the video input signal correctly again.
The SRP-X700P cannot be controlled	• The cable routing method does not satisfy the specifications of this unit.
by RS-232C.	• The RS-232C parameter settings do not satisfy the specifications of this unit.
	$\rightarrow$ Connect cables following the instructions for "REMOTE RS-232C Terminal" described on
	page 12.
PROTECTION indicator remains lit.	• When DC voltage appears in the SPEAKER terminal due to failure.
	$\rightarrow$ Set the POWER switch to OFF.
	• If the heat sink temperature inside the amplifier exceeds the specified value.
	The connected speaker impedance is too low.
	$\rightarrow$ Set the POWER switch to OFF and connect the SRP-X700P to a speaker having the
	correct impedance.
	Air intake and exhaust holes (on the right and left sides of the SRP-X700P) are choked
	by dust.
	$\rightarrow$ Clean the air intake and exhaust holes by removing dust with a vacuum cleaner.
	Speaker terminal is short-circuited.
	$\rightarrow$ Set the POWER switch to OFF and remove the cause of the short-circuit.