SONY

2-347-304-**32** (1)

AUDIO MIXER

Operating Instructions

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

SRP-X100

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2347304320

For the customers in the U.S.A.

Owner's Record

The model and serial numbers are located at the side of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. SRP-X100

Serial No. _____

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

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

THIS APPARATUS MUST BE EARTHED.

When installing the unit, incorporate a readily accessible disconnect device in the fixed wiring, or connect the power plug to an easily accessible socket-outlet near the unit. If a fault should occur during operation of the unit, operate the disconnect device to switch the power supply off, or disconnect the power plug.

WARNING

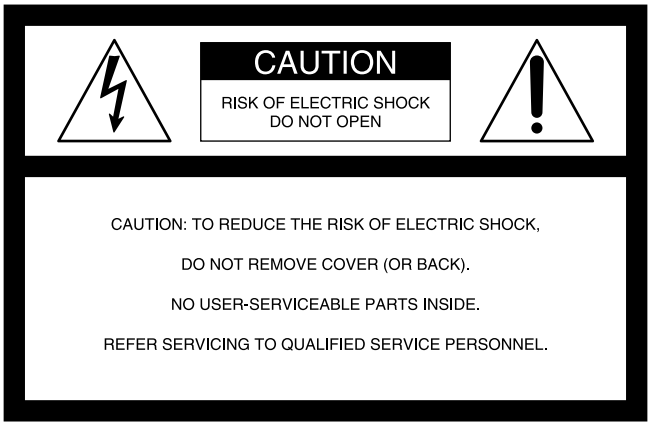
Changing the voltage selector may require the use of a different line cord or attachment plug, or both. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel.

Important Safety Instructions

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings.
  Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.
  When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.





This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

This apparatus shall not be exposed to dripping or splashing and no objects filled with liquid, such as vases, shall be placed 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.

Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan

Apparatet må tilkoples jordet stikkontakt

Apparaten skall anslutas till jordat uttag

For the customers in Europe

This product with the CE marking complies with both the EMC Directive and the Low Voltage Directive 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 Environments:
E1 (residential), E2 (commercial and light industrial), E3 (urban outdoors), E4 (controlled EMC environment, ex. TV studio).

The manufacturer of this product is Sony Corporation, 1-7-1 Konan, Minato-ku, Tokyo, Japan.
The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

AVERTISSEMENT

Afin de réduire les risques d'incendie ou d'électrocution, ne pas exposer cet 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.

CET APPAREIL DOIT ÊTRE RELIÉ À LA TERRE.

Lors de l'installation de l'appareil, incorporer un dispositif de coupure dans le câblage fixe ou brancher la fiche d'alimentation dans une prise murale facilement accessible proche de l'appareil. En cas de problème lors du fonctionnement de l'appareil, enclencher le dispositif de coupure d'alimentation ou débrancher la fiche d'alimentation.

AVERTISSEMENT :

Le changement de sélecteur de tension peut nécessiter l'utilisation d'un type différent de cordon ou de fiche de fixation, ou les deux. Afin de réduire les risques d'incendie ou d'électrocution, faites appel à un technicien qualifié pour toute réparation/entretien.





Ce symbole est destiné à avertir l'utilisateur de la présence d'une « tension dangereuse » non isolée dans l'enveloppe du produit, qui pourrait être suffisamment importante pour représenter un risque d'électrocution pour les personnes.



Ce symbole est destiné à avertir l'utilisateur de la présence d'instructions d'utilisation et de maintenance (entretien/réparation) importantes dans la documentation accompagnant l'appareil.

ATTENTION

Eviter d'exposer l'appareil à un égouttement ou à des éclaboussures. Ne placer aucun objet rempli de liquide, comme un vase, sur l'appareil.

Cet appareil n'est pas déconnecté de la source d'alimentation secteur tant qu'il est raccordé à la prise murale, même si l'appareil lui-même a été mis hors tension.

Pour les clients en Europe

Ce produit portant la marque CE est conforme à la fois à la Directive sur la compatibilité électromagnétique (EMC) et à la Directive sur les basses tensions 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).

Le fabricant de ce produit est Sony Corporation, 1-7-1 Konan, Minato-ku, Tokyo, Japon.
Le représentant autorisé pour EMC et la sécurité des produits est Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Allemagne. Pour toute question concernant le service ou la garantie, veuillez consulter les adresses indiquées dans les documents de service ou de garantie séparés.

WARNUNG

Um die Gefahr von Bränden oder elektrischen Schlägen zu verringern, darf dieses Gerät nicht Regen oder Feuchtigkeit ausgesetzt werden.

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

DIESES GERÄT MUSS GEERDET WERDEN.

Beim Einbau des Geräts ist daher im Festkabel ein leicht zugänglicher Unterbrecher einzufügen, oder der Netzstecker muss mit einer in der Nähe des Geräts befindlichen, leicht zugänglichen Wandsteckdose verbunden werden. Wenn während des Betriebs eine Funktionsstörung auftritt, ist der Unterbrecher zu betätigen bzw. der Netzstecker abzuziehen, damit die Stromversorgung zum Gerät unterbrochen wird.

VORSICHT

Das Gerät ist nicht tropf- und spritzwassergeschützt. Es dürfen keine mit Flüssigkeiten gefüllten Gegenstände, z. B. Vasen, darauf abgestellt werden.

Solange das Netzkabel an eine Netzsteckdose angeschlossen ist, bleibt das Gerät auch im ausgeschalteten Zustand mit dem Strommetz verbunden.

Für Kunden in Europa

Dieses Produkt besitzt die CE-Kennzeichnung und erfüllt die EMV-Richtlinie sowie die Niederspannungsrichtlinie der EG-Kommission.
Angewandte Normen:

- EN60065: Sicherheitsbestimmungen
- EN55103-1: Elektromagnetische Verträglichkeit (Störaussendung)
- EN55103-2: Elektromagnetische Verträglichkeit (Störfestigkeit)

Für die folgenden elektromagnetischen Umgebungen: E1 (Wohnbereich), E2 (kommerzieller und in beschränktem Maße industrieller Bereich), E3 (Stadtbereich im Freien) und E4 (kontrollierter EMV-Bereich, z.B. Fernsehstudio).

Der Hersteller dieses Produkts ist Sony Corporation, 1-7-1 Konan, Minato-ku, Tokyo, Japan.
Der autorisierte Repräsentant für EMV und Produktsicherheit ist Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Deutschland. Bei jeglichen Angelegenheiten in Bezug auf Kundendienst oder Garantie wenden Sie sich bitte an die in den separaten Kundendienst- oder Garantiedokumenten aufgeführten Anschriften.

For the customers in the U.S.A.
SONY LIMITED WARRANTY - Please visit http://www.sony.com/psa/warranty for important information and complete terms and conditions of Sony's limited warranty applicable to this product.

For the customers in Canada
SONY LIMITED WARRANTY - Please visit http://www.sonybiz.ca/solutions/Support.do for important information and complete terms and conditions of Sony's limited warranty applicable to this product.

For the customers in Europe
Sony Professional Solutions Europe - Standard Warranty and Exceptions on Standard Warranty.
Please visit http://www.pro.sony.eu/warranty for important information and complete terms and conditions.

For the customers in Korea
SONY LIMITED WARRANTY - Please visit http://bpeng.sony.co.kr/handler/BPAS-Start for important information and complete terms and conditions of Sony's limited warranty applicable to this product.

Pour les clients au Canada
GARANTIE LIMITÉE DE SONY - Rendez-vous sur http://www.sonybiz.ca/solutions/Support.do pour obtenir les informations importantes et l'ensemble des termes et conditions de la garantie limitée de Sony applicable à ce produit.

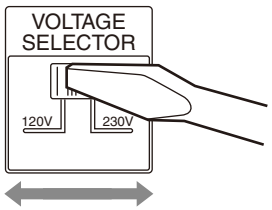
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Precautions

On safety

- Check that the voltage selector on the rear panel is set to the local power line voltage. If not, set the selector to the correct position using a screwdriver before connecting the AC power cord to a wall outlet.



- Should any liquid or solid object 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.

For areas other than US or Canada

- This set includes 2 types of AC power cords. Please select the one that is suitable for the region that you are living in.

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 lightly moistened with 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.

Features

The SRP-X100 is a 1U audio mixer having a 6 channel monaural input, and 3 channel stereo input.

This mixer is ideal as a public address (PA) mixer in small-scale halls such as civic and banquet halls, and in schools, AV systems in offices, etc.

6 channel Monaural Inputs

A 6 channel monaural input (XLR jack) for microphone level inputs is provided.
Supplies power (+48V DC) to condensor microphones with just one setting.
Input level selector buttons (for 3 - 6 channels) on rear panel can also be used for stereo input (+4dBu) at line level.

3 channel Stereo Inputs

Phono jack stereo inputs (–10dBu) for 3 channels are provided.
A dedicated input connector (ST3) for recorders is provided to prevent self-oscillation due to feedback from its own signal.
The REC bus is isolated to prevent self-oscillation due to feedback from the original signal.

Plentiful Output connectors

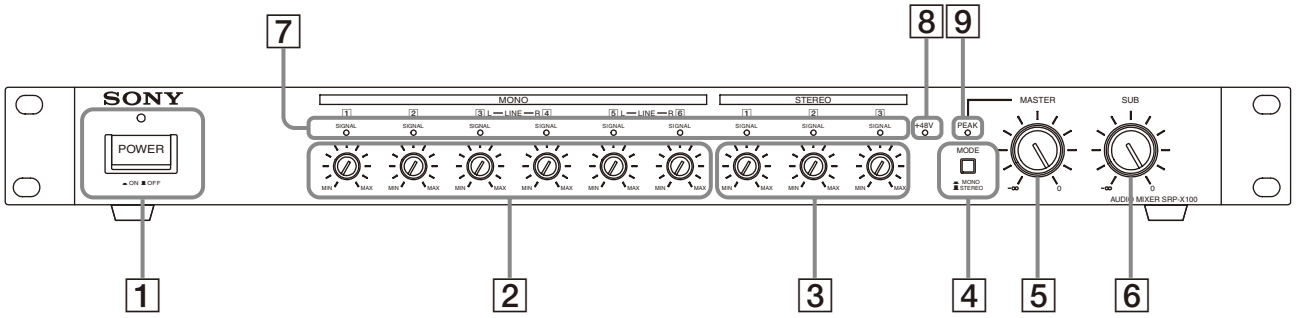
Compatible with many systems thanks to Plentiful outputs including MASTER OUTPUT, SUB OUTPUT and REC OUTPUT.

All Channels are equipment with Signal Indicators and the MASTER OUTPUT is equipment a Peak Indicator.

Easy Mounting into 19"EIA Standard Rack.

Location and Function of Parts

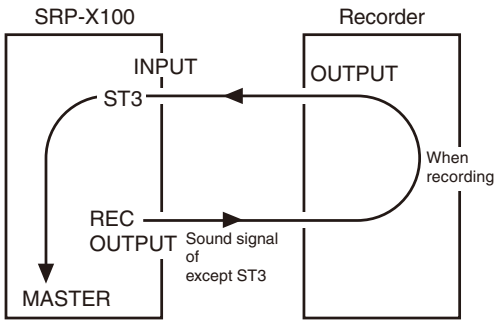
Front Panel



1 POWER button & Power Indicator
This turns the power to the unit on and off. Power indicator lights up (green) when power is on.

2 MONO INPUT knobs
Use to adjust the mixing level on MONO INPUT channels 1 - 6.

3 STEREO INPUT knobs
Use to adjust the mixing level on STEREO INPUT channels 1 - 3.
The ST3 audio is output from REC OUTPUT connectors. Therefore no signal loop occurs and sounds can be safely recorded even if the ST3 INPUT knob is still set high during recording. (See illustration.)



4 MODE button
Selects how to use the MASTER OUTPUT.
At MONO (▂) issues a monaural output, at STEREO (▟) issues a stereo output.

5 MASTER OUTPUT knob
Use this knob to adjust the output level at the MASTER OUTPUT connectors.

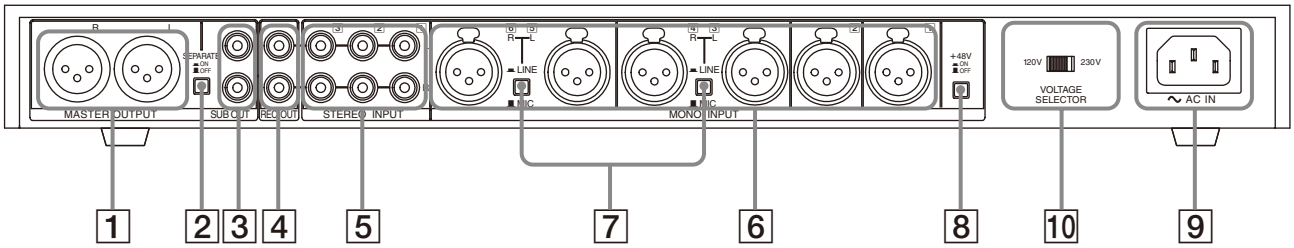
6 SUB OUTPUT knob
Use this knob to adjust the output level at the SUB OUTPUT connectors.

7 SIGNAL indicators
This indicator lights up when input with a signal ranging from standard input level to more than –20dB.

8 +48V indicator
This indicator lights up when power (+48V DC) is supplied to the MONO INPUT connectors.

9 PEAK indicator
Warns that the output signal is too high.
The INPUT knob must be adjusted when this indicator keeps lighting up. (If indicator lights up only occasionally then there is no problem.)

Rear Panel



1 MASTER OUTPUT connectors
XLR-3-32 type. (balanced, reference output level: +4dBu)
No.1 pin: GND No2 pin: HOT No.3 pin: COLD
Outputs signal from MASTER OUTPUT VOLUME.

2 SEPARATE button
Pressing this button to ON (▬) outputs only STEREO INPUT signals or MONO INPUT signals that is set to line level from the MASTER OUTPUT connector, output only MONO INPUT signal that is set to microphone level from SUB OUTPUT connector.
Used for separate to the line level output signals and microphone signals.

3 SUB OUTPUT connectors
Phono jack (unbalanced, reference output level: –5dBu)
Outputs a mono-mixed signal from SUB OUTPUT VOLUME.
Outputs the same signal from two phono jacks.

4 REC OUTPUT connectors
Phono jack (unbalanced, reference output level: –10dBu)
Outputs the signal not passing through MASTER OUTPUT VOLUME.

5 STEREO INPUT connectors
Phono jack (unbalanced, reference output level: –10dBu)
These are input jacks for the STEREO INPUT channel. ST1, 2 are usually only for playback equipment. ST3 is connected to a recording equipment wired to the REC OUTPUT connector of this unit (SRP-X100).

6 MONO INPUT connectors
XLR-3-31 type. (balanced, reference input level LINE: +4dBu, MIC: –60dBu)
No.1 pin: GND No.2 pin: HOT No.3 pin: COLD
This is an input connector for the MONO INPUT channel. MONO 1/2 are for microphones but MONO 3 - 6 connect to either microphones or line level devices.
Set the input level selector button to LINE position (▬) when a line level output device is connected to MONO 3 - 6.
The LCF for Fc=100Hz functions when setting the mic level.

7 INPUT LEVEL Selector buttons
These buttons switch the MONO INPUT 3 - 4, MONO INPUT 5 - 6 input levels according to the connected equipment.
When these buttons is set to LINE (▬) to a line level (+4dBu) input and automatically assigns Ch. 3, 5 to the L channel, and Ch. 4, 6 to the R channel.

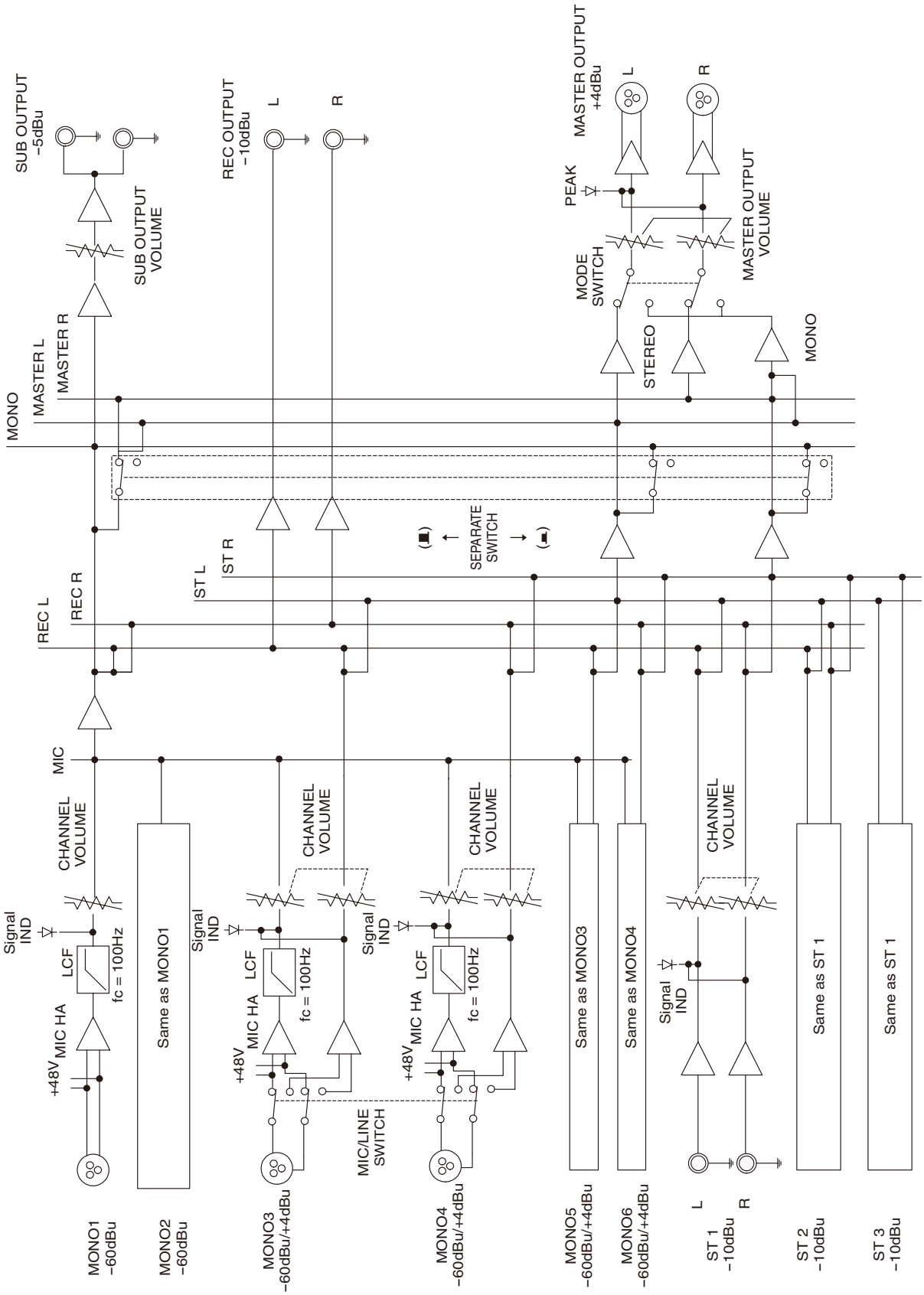
8 +48V button
This button supplies power (+48V DC) for the condensor microphone to MONO INPUT connectors 1 - 6.
Setting this button to ON (▬), supplies +48V DC to the MONO INPUT connectors that is set to mic level.

Note
Before removing cables, or using the +48V button, always be sure to turn the MONO INPUT button all the way down.

9 AC Inlet
Attach the supplied AC power cord here.

10 VOLTAGE SELECTOR
Set the VOLTAGE SELECTOR to your areas voltage value. Please refer to P6.Precautions.

Block Diagrams



Specifications

Item	Conditions	Standard
Frequency response (LINE/STEREO-IN)	20Hz to 20kHz, 1kHz fundamental, MASTER OUT 5Hz to 100kHz, 1kHz fundamental, MASTER OUT	+0.5dB/–1dB +0.5dB/–2dB
Total harmonic distortion (T.H.D.)	MONO IN-MASTER OUT, 1kHz –44dBu input STEREO IN-MASTER OUT, 1kHz +4dBu input STEREO IN-MASTER OUT, 1kHz –10dBu input	less than 0.01% less than 0.005% less than 0.005%
Residual noise level	ch fader: - ∞ MASTER VOL: 0 MASTER OUT IHF-A	less than –83dBu
Equivalent input noise	MONO IN input terminal at 150Ω IHF-A	less than –126dBu
Crosstalk	1kHz across L-R 1kHz across channels 1kHz across MAX-MIN (ch fader)	less than –70dB less than –80dB more than 90dB

INPUTS/OUTPUTS

Connector	Connector type	Channel	Reference I/O Level	Max I/O Level	I/O Impedance
MONO IN [1)]	XLR3-31	6	MIC: –60dBu LINE: +4dBu	MIC: –30dBu LINE: +24dBu	MIC: more than 2.2kΩ LINE: more than 10kΩ
STEREO IN	PHONO	3 (Stereo)	–10dBu	+10dBu	more than 47kΩ
REC OUT	PHONO	1 (Stereo)	–10dBu	+10dBu	less than 470kΩ
SUB OUT	PHONO	2	–5dBu	+15dBu	less than 470kΩ
MASTER OUT	XLR3-32	1 (Stereo)	+4dBu	+24dBu	less than 47Ω

0dBu=0.755V

1) MONO 1 - 2: MIC level only
MONO 3 - 6: MIC level or LINE level selectable

OTHERS

+48 V Power supply	MONO 1 - 6 jacks (MONO 3 - 6 are only during Mic level settings)

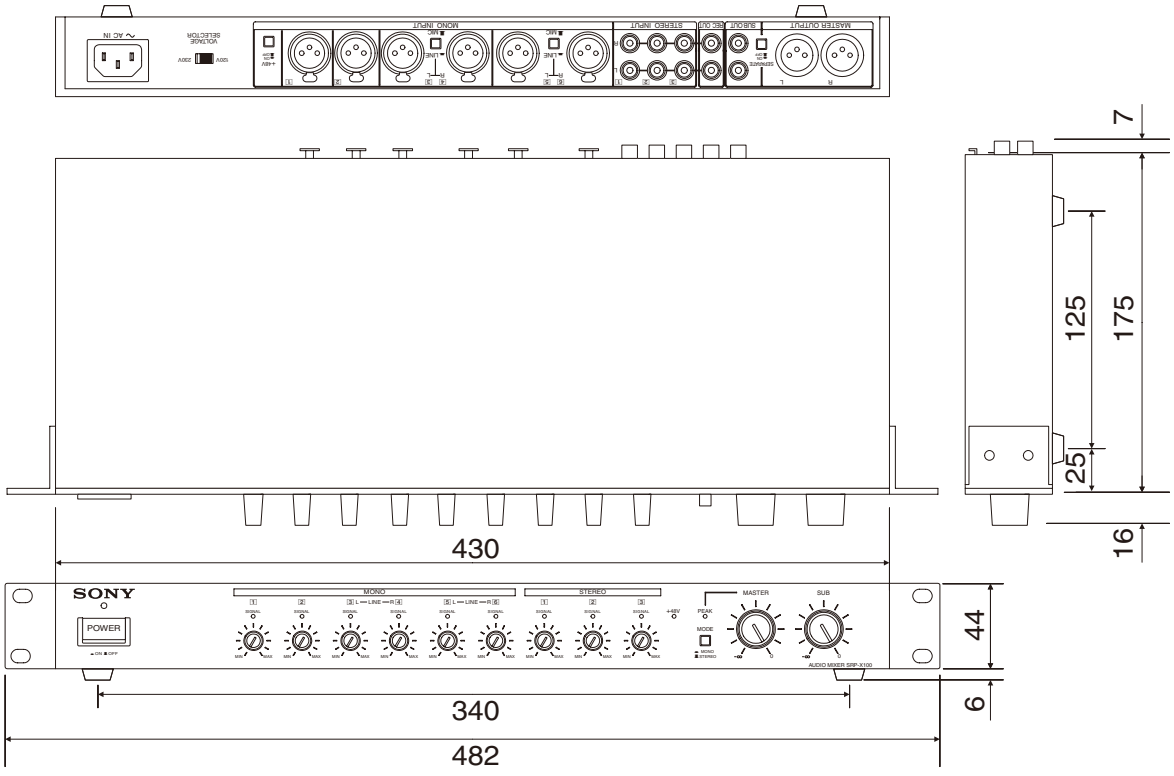
Power requirements
AC 120/230V (switch selectable)
50/60Hz
Power consumption
19W
Peak inrush current
(1) Power ON, current probe method: 1 A (240 V)
(2) Hot switching inrush current, measured in accordance with European standard EN55103-1: 1 A (230 V)
Dimensions 482 × 44 × 175 mm (width/height/depth) not including max protrusion
Mass Approx. 2.6 kg
Operating temp. 0 ˚C to 40 ˚C
Storage temp. –20 ˚C to +60 ˚C
Supplied accessories
Operating instructions (1)
For US and Canada: AC power cord (1)
For other areas: AC power cord (2) (EURO type and US type)

Design and specifications are subject to change without notice.

Note

Always verify that the unit is operating properly before use. SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION OR REIMBURSEMENT ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS DUE TO FAILURE OF THIS UNIT, EITHER DURING THE WARRANTY PERIOD OR AFTER EXPIRATION OF THE WARRANTY, OR FOR ANY OTHER REASON WHATSOEVER.

Dimensions


AC IN
VOLTAGE SELECTOR
MONO INPUT
STEREO INPUT
SUB OUT
MASTER OUTPUT
7
125
175
25
16
430
SONY
POWER
MONO
STEREO
MASTER
SUB
PEAK
MODE
44
340
482
6
Unit: mm

Troubleshooting

Power will not turned on.	Has AC power cord been pulled out?
No sound.	• Is INPUT knob set to MIN? • Is OUTPUT knob set to – ∞ ?
No sound from microphone.	Was INPUT LEVEL Selector button mistakenly set to LINE (instead of MIC) for microphones connected to MONO 3 - 6. (page 8)
• No microphone audio from MASTER OUTPUT. • No audio from equipment connected to line level -stereo system from SUB OUTPUT.	Was SEPARATE button set to ON (▬)? (page 8)
No ST3 input audio from REC OUTPUT.	Signal from ST3 does not output to REC OUTPUT. (page 7)
Audio does not sound like stereo.	Is the MODE button set to STEREO? (page 7)
Sound is distorted.	• Is PEAK indicator lighting up? (page 7) • Was INPUT LEVEL Selector button set to MIC (instead of LINE) for line equipment connected to MONO 3 - 6? (page 8)

For Customer in China

根据中华人民共和国信息产业部第39号令《电子信息产品污染控制管理办法》及标准中要求的“有毒有害物质或元素名称及含量”等信息，本产品相关信息请参考以下链接:

http://pro.sony.com.cn



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