

AUDIO MIXER

SRP-X100

Operating Instructions

Thank you for purchasing a Sony Audio Mixer. Before operating, please read this manual carefully. Be sure to keep it properly 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'écartier 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 schokken te vermijden. Laat reparaties 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'umidità.

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 koteloä 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 elétricos, 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 \perp 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.

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

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

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

WARNING: THIS WARNING IS APPLICABLE FOR OTHER COUNTRIES.

- 1 Use the approved Power Cord/Plug with earthing-contacts that conforms to the safety regulations of each country if applicable.
- 2 Use the Power Code/Plug conforming to the proper ratings (Voltage, Ampere).

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: 1A (240V)
- (2)Hot switching inrush current, measured in accordance with European standard EN55103-1: 1A (230V)

Pour les clients européens

Ce produit portant la marque CE est conforme à la fois 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 crête

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

Für Kunden in Europa

Dieses Produkt besitzt die CE-Kennzeichnung und erfüllt sowohl die EMV-Direktive (89/336/EEC) als auch die Directive 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(kommerzeller und in beschränktem Maße industrieller Bereich),E3(Stadtbereich im Freien) und E4(kontrollierter EMV-Bereich, z.B. Fernsehstudio).

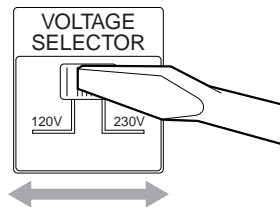
Spitzenstrom

- (1)Einschaltstrom, Stromsonde: 1A (240V)
- (2)Gemessen in EN55103-1: 1A (230V)

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.



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

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 condenser 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.

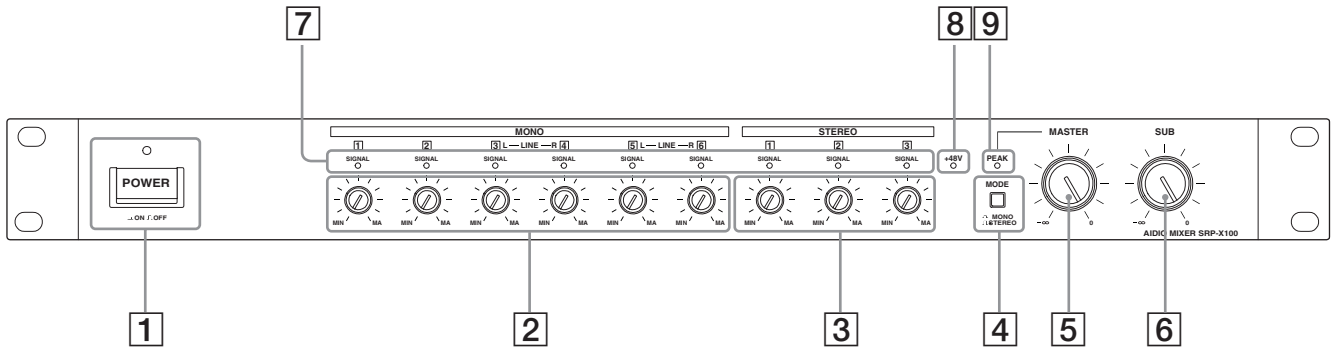
Easy Mounting into 19'EIA Standard Rack.

Afront guard MU-11G (sold separately) can be attached to this unit.

Afront guard MU-11G (sold separately) to cover buttons other than the power switch knob can be attached to this unit to prevent accidental or mistaken operation.

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

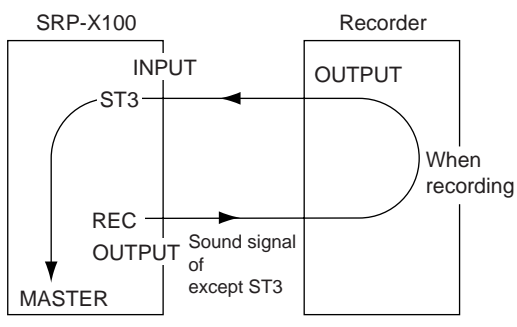
This indicator lights up when input with a signal ranging from standard input level to more than -20dB.

8 +48V indicator

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

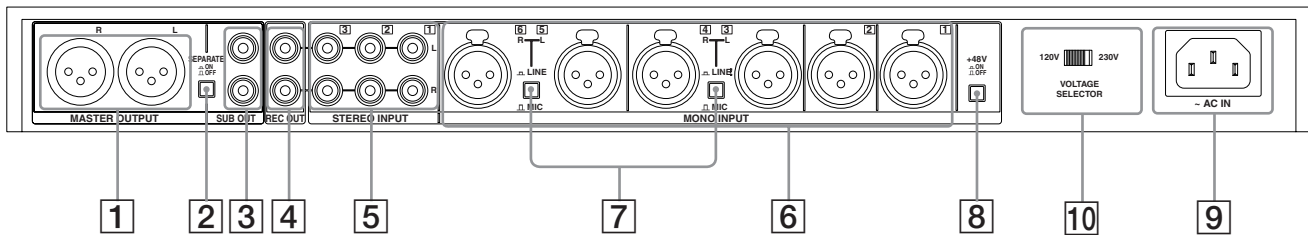
9 PEAK indicator

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.)



Location and function of parts

Rear panel



1 MASTER OUTPUT connectors

XLR-3-32 type. (balanced, reference output level:+4dBu)

No.1 pin:GND No.2 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.

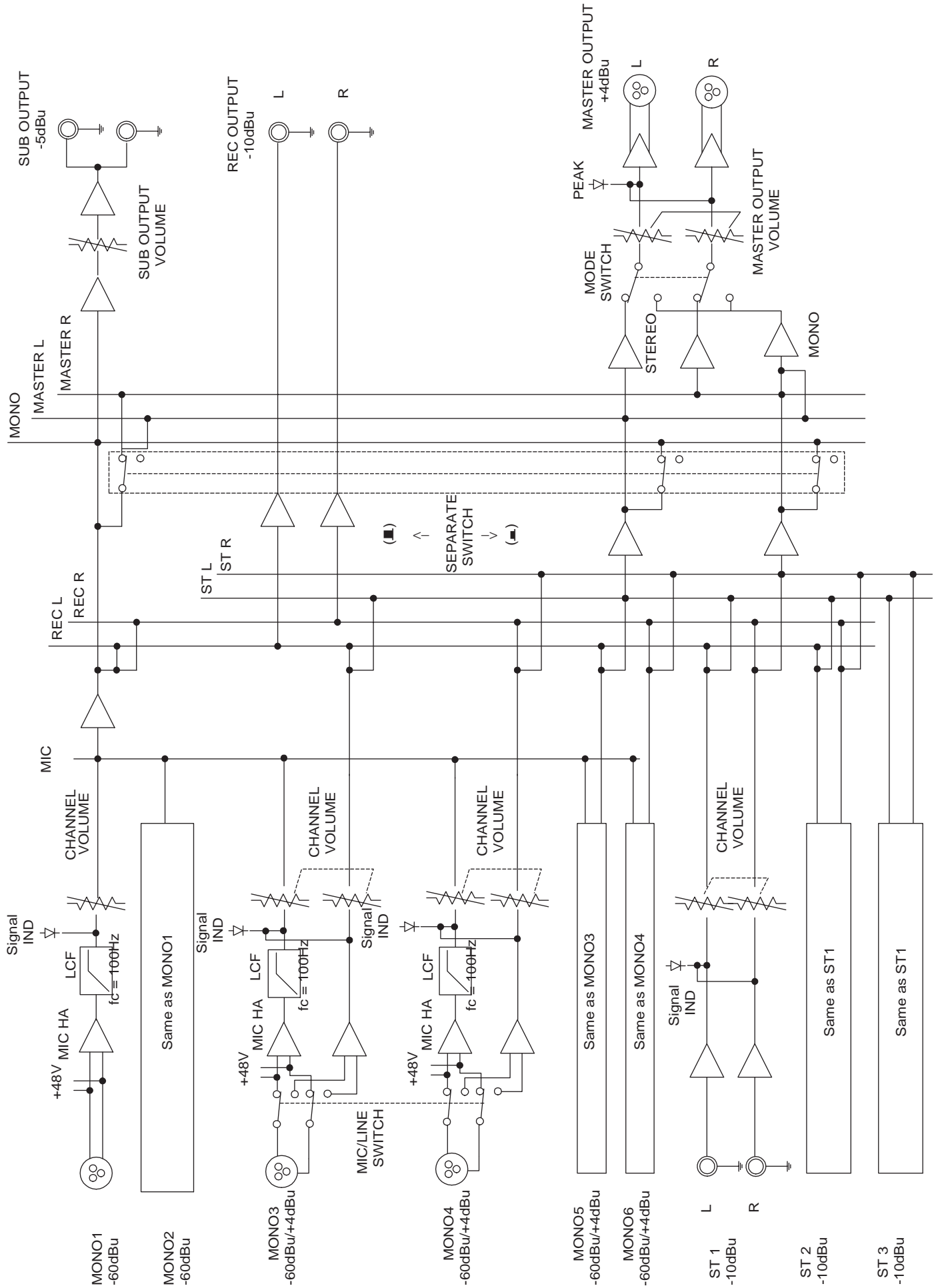
9 AC Inlet

Attach the supplied AC power cord here.

10 VOLTAGE SELECTOR

Set the VOLTAGE SELECTOR to your areas voltage value. Please refer to P4.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: $-\infty$ MASTER VOL : 0 MASTER OUT IHF-A	less than -83dBu
Equivalent input noise	MONO IN input terminated at 150 Ω IHF-A	less than -126dBu
Crosstalk	1kHz 1kHz across L-R 1kHz across channels 1kHz 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 2.2k Ω LINE: more than 10k Ω
STEREO IN	PHONO	3(Stereo)	-10dBu	+10dBu	more than 47k Ω
REC OUT	PHONO	1(Stereo)	-10dBu	+10dBu	less than 470k Ω
SUB OUT	PHONO	2	-5dBu	+15dBu	less than 470k Ω
MASTER OUT	XLR3-32	1(Stereo)	+4dBu	+24dBu	less than 47 Ω

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)
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Power requirements AC 120/230V (switch selectable) 50/60Hz

Power consumption 19W

Dimensions 482 x 44 x 175 mm(width/height/depth)

not including max protrusion

Mass 2.6kg

Operating temp. 0°C to 40°C

Storage temp. -20°C to 60°C

Supplied accessories Operating instructions (1)

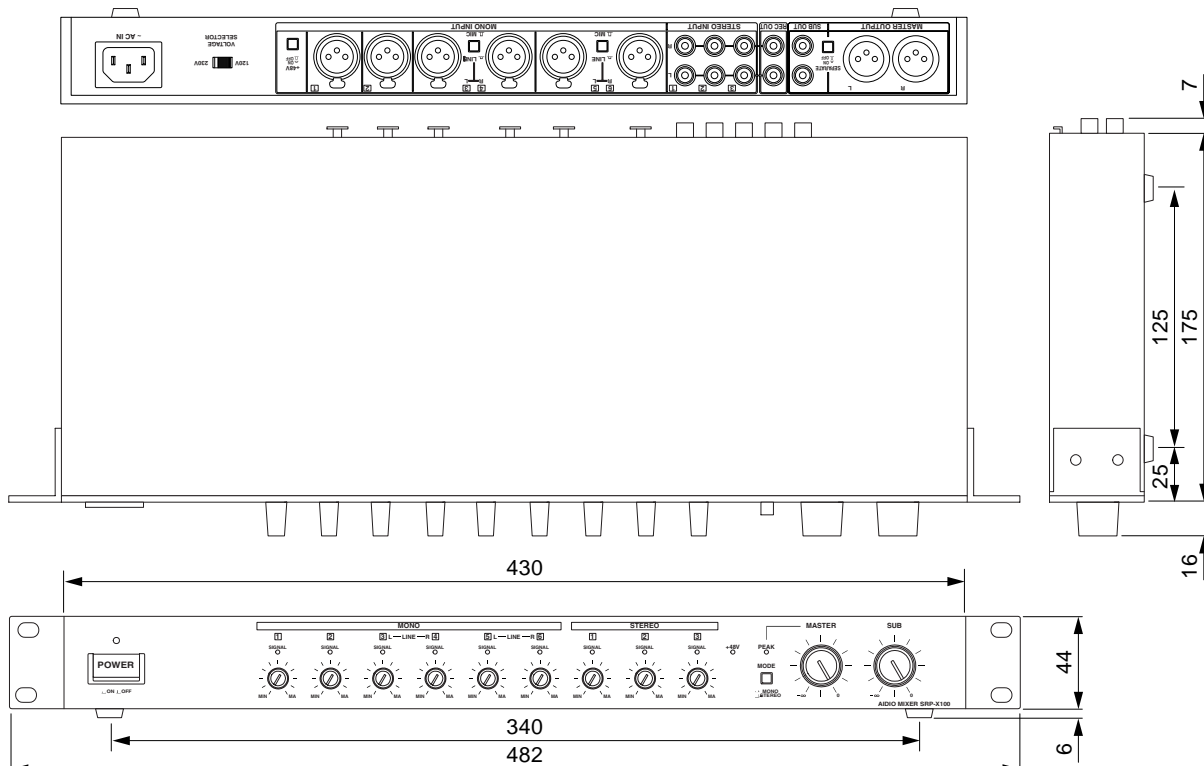
EURO type AC power cord (1)

US type AC power cord (1)

Recommend accessory MU-11G Front guard

Design and specifications are subject to change without notice.

Dimensions



Troubleshooting

Power will not turned on.	Has AC power cord been pulled out?
No sound.	<ul style="list-style-type: none">• Is INPUT knob set to MIN?• Is OUTPUT knob set to $-\infty$?
No sound from microphone.	Was INPUT LEVEL Selector button mistakenly set to LINE (instead of MIC) for microphones connected to MONO 3 - 6. (page 6)
<ul style="list-style-type: none">• No microphone audio from MASTER OUTPUT.• No audio from equipment connected to lene level - stereo system from SUB OUTPUT.	Was SEPARATE button set to ON (■)? (page 6)
No ST3 input audio from REC OUTPUT.	Signal from ST3 does not output to REC OUTPUT. (page 5)
Audio does not sound like stereo.	Is the MODE button set to STEREO? (page 5)
Sound is distorted.	<ul style="list-style-type: none">• Is PEAK indicator lighting up? (page 5)• Was INPUT LEVEL Selector button set to MIC (instead of LINE) for line equipment connected to MONO 3 - 6. ?(page 6)

