



XR[®]1000L

1000-WATT, 8-Channel Powered Mixer

Operating Manual





FCC Compliancy Statement

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, that may cause undesired operation.

Warning: Changes or modifications to the equipment not approved by Peavey Electronics Corp. can void the user's authority to use the equipment.

Note - This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



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CAN ICES-3 B/NMB/3B

XR® 1000L

Powered Mixers

Congratulations on the purchase of your new XR 1000L powered mixer from Peavey®. The Peavey XR 1000L is a revolutionary all in one powered mixer. Everything a musician needs providing up to eight combination XLR and 1/4" inputs using Peavey's award winning mic preamps, and 500 watts per channel for crystal clear audio reproduction. The Peavey XR 1000L uses exclusive and patented features like Mid Morph® to accurately help improve tone and clarity of vocals. Feedback is quickly and easily identified and removed with Peavey's 7-band graphic EQ combined with our patented and revolutionary FLS® Feedback Locating System. The XR 1000L is equipped with Peavey's exclusive Kosmos®-C technology which drastically enhances both the low and high end of the audio spectrum. Footswitchable built in 24-bit digital effect compliments the already feature packed unit. Connect almost anything to this versatile mixer via the onboard 1/4", RCA and 1/8" mini jacks.



Before you begin using your powered mixer it is very important to ensure that the product has the proper AC voltage supplied. You can find the proper voltage for your amp printed next to the IEC line (power) cord on the rear panel of the unit.

FEATURES:

- FLS Feedback Locating System
- Mid-Morph EQ
- Kosmos-C
- On-board 24-bit digital effects with mute button
- Digital effects parameter control
- Combination XLR and 1/4" input jacks
- Dual 7-Band Graphic EQ with FLS
- Master Mute for channels 1-7
- Footswitchable effects defeat
- Global Phantom Power
- RCA, 1/8" Media input
- Bluetooth® (XR 1000L model)
- Selectable Main or Monitor dual power section
- RCA Record outputs
- LED Meter bridge
- Power amp sub-sonic filtering
- Clip light and signal present indicator
- Main line level 1/4" output
- DDT™ Speaker protection circuit

VENTILATION: For proper ventilation, allow 6" (15.5 cm) clearance on all sides.



CHANNEL CONTROLS

1 HIGH EQ

This High EQ shelving type of active tone control varies the treble frequencies (+/- 15 dB at 12 kHz) and is designed to remove noise or add brilliance to the signal, depending on the quality of the source.

2 MID-MORPH® EQ

Where most mid-range controls work at just one frequency, the Mid-Morph works at two. When turned counterclockwise, it cuts at 250 Hz to reduce frequencies that muddy the sound. When turned clockwise, it boosts at 4 kHz to add intelligibility to vocals. Either way, improved vocal or instrument definition can be achieved.

3 LOW EQ

A shelving type of EQ that varies the bass frequency levels (+/- 15 dB at 80 Hz). Low EQ adds depth to thin-sounding signals or cleans up the muddy ones. As with any EQ, use sparingly. Too much of this EQ can give you a booming bottom end.

4 MONITOR SEND

The monitor send adjusts the level of the channel signal added to the monitor send. Keep in mind the monitor send can be assigned to one of two power amplifiers and power an external monitor speaker.

5 EFX - DIGITAL EFFECTS

This control adjusts the level of the channel signal added to the effects mix. The signal is sent to the internal effects processor. Turning the knob to the left (0) will turn off effects on the associated channel, while turning the knob to the right will increase the amount of the selected effect.

6 LEVEL

This control sets the signal level sent to the main mix.

7 CLIP

When this LED turns or blinks red, is an indication that the signal coming into the channel is too strong potentially causing distortion. Turn down the Level control (6) until the Clip light is no longer present. If you are having difficulty getting a clean signal, try varying the output of the connected device.

8 SIG

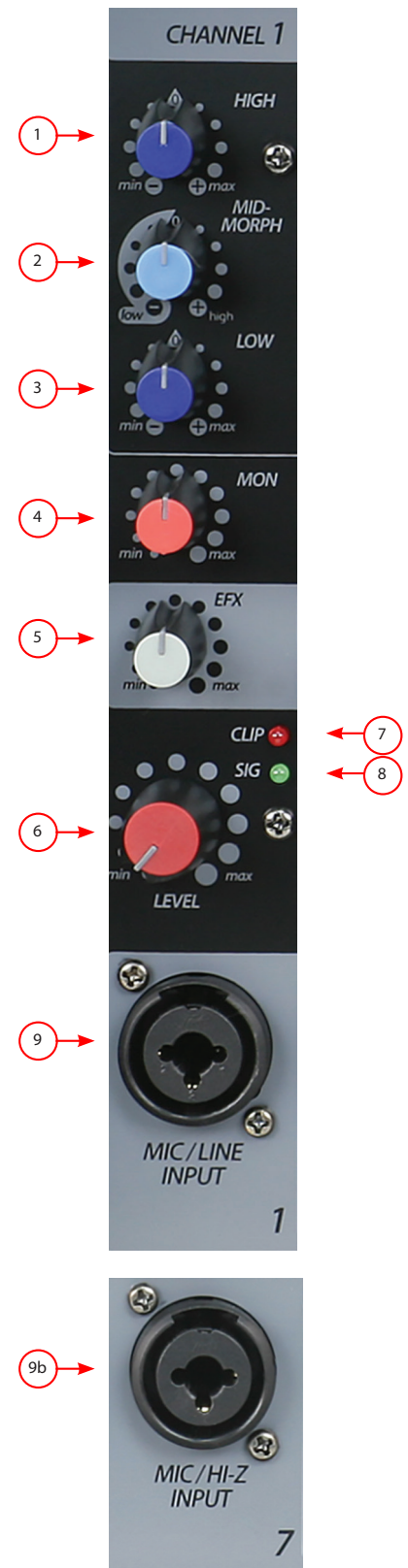
When this LED is green, it is an indication the mixer is receiving signal at the input of the channel. If you are having trouble getting sound out of the mixer and this LED is not on, check the microphone, instrument or cable that is connected to the channel.

9 MIC/LINE INPUT

This combination input jack can accept either a 1/4" (balanced or unbalanced) input or a XLR balanced, low-impedance connection. The tip is positive on the 1/4" balanced input, and pin 2 is positive on the XLR.

9b MIC/HI Z INPUT

Channel 7 line input is a Hi-Z unbalanced input for use with high impedance microphones, acoustic/electric guitars or other high impedance sources equipped with a 1/4" plug (TS).



10 XLR BALANCED INPUT
Channel 8 is designed specifically for pre-recorded (program) music, but can also be used with a microphone. This XLR input provides a balanced low impedance connection.

11 MIC OR MEDIA SELECT BUTTON
This control selects between the low impedance XLR (9) and the RCA / 1/8", or Bluetooth® signal.

12a MEDIA INPUT
These inputs, both RCA and 1/8" accept a stereo input from the output of an MP3 player, CD player, tape deck or other similar device.

13 FLS®
When feedback occurs, the corresponding LED of the frequency that is closest to the frequency that is feeding back will illuminate over the slider to be adjusted. Slowly bring the corresponding slider down until feedback is gone. The LED will remain illuminated for a few seconds after the feedback is gone.

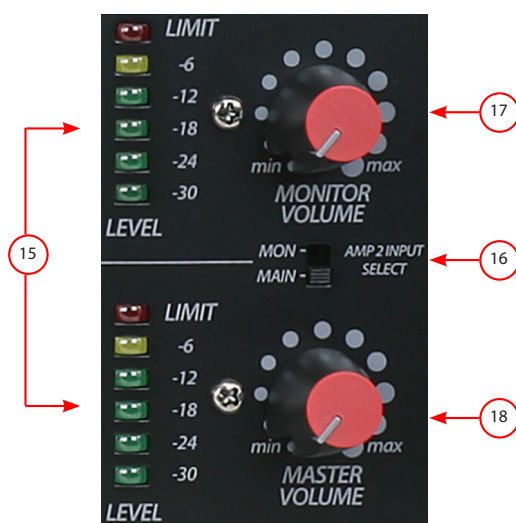
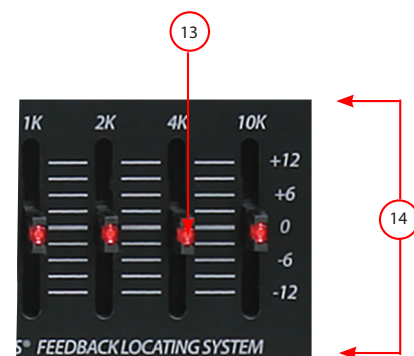
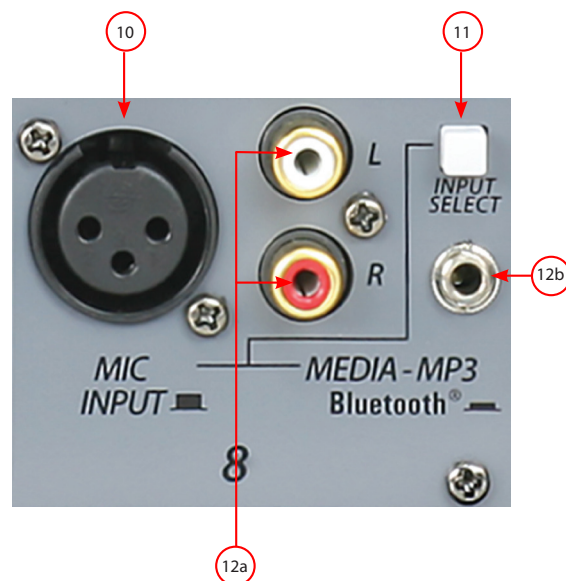
14 GRAPHIC EQ
These 7-band EQs are designed for 12dB cut or boost. These EQs are used to make minor adjustments to the overall mix and should be used sparingly.

15 AMP LEVEL LED LADDER
These LEDs indicated the signal level going to the power amplifier. The top LED indicates LIMIT and activation of our revolutionary DDT™ speaker protection circuit. Peavey's award winning speaker protection circuit is built into the XR 1000L and activated automatically to maximize the power amplifier without fear of distortion.

16 POWER AMP INPUT SELECT
This control allows the user to select whether the 2nd power amplifier receives its signal from the Master Volume (18) or from the Monitor Volume (17) control. This allows the user to run both power amps for mains, or use power amp 1 for mains and power amp 2 for monitors.

17 MONITOR VOLUME
The master level control adjusts the level of the signal coming out the Monitor send 1/4" jack. It can also be assigned to feed the 2nd power amplifier via selector switch (16).

18 MASTER VOLUME
The master level control for the main mix and the overall volume of the powered mixer.



19 KOSMOS®-C
The Kosmos -C module uses special circuitry to enrich the sound of your system. The low control is not just a simple bass boost. It provides 'natural bass enhancement' by adding harmonically related bass signals that track envelope of the original signal. The Kosmos-C, High control can be used to add clarity to dull signals.

20 MASTER MUTE LED
When the LED is ON it indicates the master mute is activated.

21 MASTER MUTE
Depressing this button mutes channels one through seven, preventing signal from passing to the power amplifier. This button does not affect channel 8.

22 EFFECTS TYPE TABLE
This table lists the type of effects available and the abbreviation used for that effect in the first character of the LED display. The chart also lists the parameter associated with the effect that is controlled by turning encoder 24. A more detailed list of effects can be found at the end of this manual.

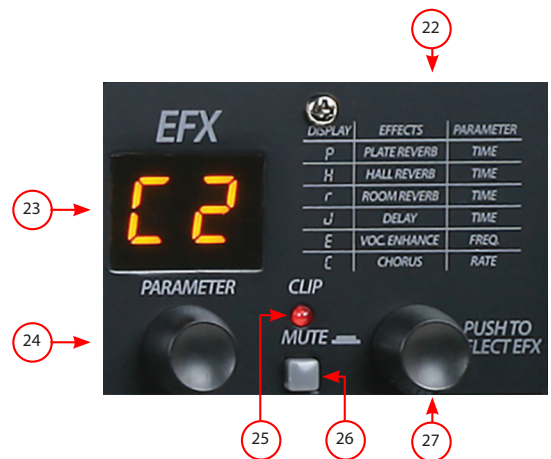
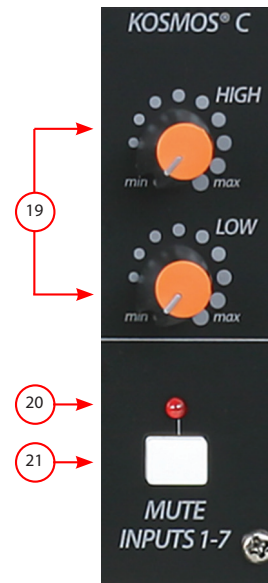
23 EFX LED
This LED indicates the type of effect currently selected. When turning encoder 27 the display will flash until the encoder is depressed, selecting a new effect.

24 PARAMETER CONTROL
This encoder controls the parameter associated with the selected effect, listed both on the mixer (23) and in this manual. The parameter control is used to make adjustments to the sound of the effect.

25 CLIP LED
This LED blinks RED when the signal to the effects section is too hot and is causing distortion. Find the source of the hot signal by reducing the EFX SEND (5) on each channel until the LED is no longer clipping (blinking red).

26 EFX MUTE
When pushed this button bypasses the effects section, letting the user listen to the dry signal. When depressed and muted, LED 23 displays two dashes "--".

27 EFFECTS SELECT
Turn and push this encoder to select the desired effect.



Front Panel



28 PHANTOM POWER

This switch when depressed, applies +15 VDC to all input XLR connectors to power microphones that require phantom power.

Caution: When phantom power is switched on, make sure that any channel you are plugging a microphone into is turned down and the Master Main and Monitor controls are set to minimum. Otherwise, there will be a loud pop in the system. For best results, first plug in all microphones into their respective channels before phantom power is switched on. This reduces noise through the system and reduces the chance of damage to the microphones. If phantom power is used, do not connect unbalanced, dynamic microphones or other devices to the XLR inputs that cannot handle this voltage. (Some wireless receivers may be damaged. Consult their manuals.) The line input jacks are not connected to the phantom supply and are safe for all inputs (balanced or unbalanced). An unbalanced to balanced impedance converter such as the Peavey 5116 or a Peavey 1:1 Interface Adapter may also be used to isolate a microphone from phantom voltage.

29 Bluetooth® Activation Button

Press and hold this button until the LED blinks 3 times, indicating the Bluetooth has been powered on or off, then release. Once turned on, the Bluetooth will automatically enter pairing mode. You can pair any Bluetooth-enabled device with the mixer using the PIN 7878. To clear the paired device memory, make sure the Bluetooth is turned off and press and hold the button for at least 10 seconds. The LED will initially blink 3 times but then should remain off. Once you have released the button after 10 seconds, you can proceed by powering it on as normal, and the memory will be cleared.

30 BLUETOOTH® LED

Indicates that the XR 1000L is receiving signal from a Bluetooth® device. LED blinks while finding a signal and is solid once paired with the Bluetooth® device.

31 RECORD LEVEL

This knob adjusts the main signal level sent to the RCA record outs.

32 RCA RECORD OUT

This pair of RCA jacks provides a signal to the recording inputs of a CD recorder, stereo tape deck, or other recording device.

NOTE: Do not connect a single device to the Media In (12a/12b) and Record Out (33). This improper setup forms a loop, which can cause severe feedback. Use separate devices for recording and playback.

33 FOOTSWITCH

This 1/4" TRS (tip ring sleeve) jack accepts a momentary 1/4" TRS dual button footswitch (Peavey part number 03014070) designed to defeat the effects on all channels and activate the MASTER MUTE switch (21). This function is extremely useful for playing program music during breaks.

34 MONITOR OUT

This 1/4" jack provides a signal from the monitor mix (4) for an external power amplifier. An external power amplifier, such as our IPR® series of amplifiers, can then drive additional monitor speakers.

35 MAIN OUT

This 1/4" jack provides a signal from the main mix (after the graphic EQ) for an external power amplifier. An external power amp, such as our IPR series of amplifiers, can then drive additional speakers.



36 MODE

If both, a memory stick and SD card are present, a short press of the MODE button will change between the USB input and the SD card input. A long press of the MODE button will shut off the MP3 player. Another long press is needed to turn it back on.

37 PLAY/PAUSE

A short press of the PLAY/PAUSE button causes the operation to change from PLAY to PAUSE or from PAUSE back to PLAY. A long press of the PLAY/PAUSE button will put the player into navigation mode. When in navigation mode the player can toggle between multiple folders on the memory device. The file folder num is displayed at the top of the screen while the file folder name is at the bottom. The “track skip (42)” buttons can be used to toggle between the folders on the memory device. Once the desired folder is found, press “PLAY/PAUSE” to select the folder. The first song in the folder will begin playing.

38 STOP

Press the STOP button to stop a file that is playing.

39 REPEAT

Pressing the REPEAT button toggles the function between ALL, RANDOM and SINGLE.

ALL: Repeats all songs.

RANDOM: Plays songs in random order.

SINGLE: Repeats a single song.

Note: The REPEAT functions only apply to the songs in the selected folder.

40 TRACK SKIP

In playback mode the TRACK SKIP buttons let you select the track to play.

A short press skips to the next track. A long press allows you to fast forward/rewind through a song. Hold the button down until the desired playback point is found. Release the button and the song will start playing. In navigation mode, the TRACK SKIP buttons are used to increment/decrement through the folders on the memory device.

41 USB DRIVE SLOT

On the right side of the device is a USB drive slot where a USB memory stick can be connected. The player will accept a memory stick up to 32Gb.

42 SD CARD SLOT

To connect the SD card, push the card completely in the slot until it clicks into place. The player will accept a SD card up to 32Gb in size.

- 43 **POWER SWITCH**
This is the main power switch.



- 44 **FUSE**
This is the main safety fuse for the AC line voltage. Only replace with a fuse of the exact type and rating. If the fuse continues to open, do not over fuse. Take the unit to an authorized Peavey service center.
NOTE: If the main AC voltage is changed, the fuse must also be changed to one of the appropriate rating for the voltage you are switching to.



- 45 **AC POWER INLET**
This is the receptacle for an IEC line cord, which provides AC power to the unit. Connect the line cord to this connector to provide power to the unit. Damage to the equipment may result if improper line voltage is used. (See line voltage marking on unit).



Never break off the ground pin on any equipment. It is provided for your safety. If the outlet used does not have a ground pin, a suitable grounding adapter should be used and the third wire should be grounded properly. To prevent risk of shock or fire hazard, always make sure that the amplifier and all associated equipment is properly grounded.



NOTE: FOR UK ONLY

As the colors of the wires in the mains lead of this apparatus may not correspond directly with the colored markings identifying the terminals in your plug, proceed as follows: (1) The green and yellow wire must be connected to the terminal which is marked with the letter E, or by the earth symbol, or is colored green, or green and yellow. (2) The blue wire must be connected to the terminal which is marked with the letter N, or the color black. (3) The brown wire must be connected to the terminal which is marked with the letter L, or the color red.

- 46 **VOLTAGE SELECTOR SWITCH**
This switch allows the user to select between 115VAC / 60Hz or 230VAC / 50Hz. To change the voltage selector, you must first unscrew and remove the plastic cover that protects the switch. After changing the voltage, please replace the plastic cover to ensure the voltage level is not inadvertently altered.

NOTE: The fuse **MUST** be changed to the appropriate value to match the voltage you have selected. Please see the note on the back of the mixer for the correct value.



- 47 **MAIN / MONITOR SPEAKER OUTPUTS**
A two-conductor 1/4" speaker output and Speakon jack are assigned to each channel. Each amp is rated at 4 ohms minimum impedance. You may connect either one 4-ohm, one 8-ohm or two 8-ohm speakers to each output. Do not operate below rated minimum impedance. For maximum power transfer, be sure to use speaker cables and not instrument cables to connect to the speakers. We recommend the use of 18-gauge or larger speaker wire.

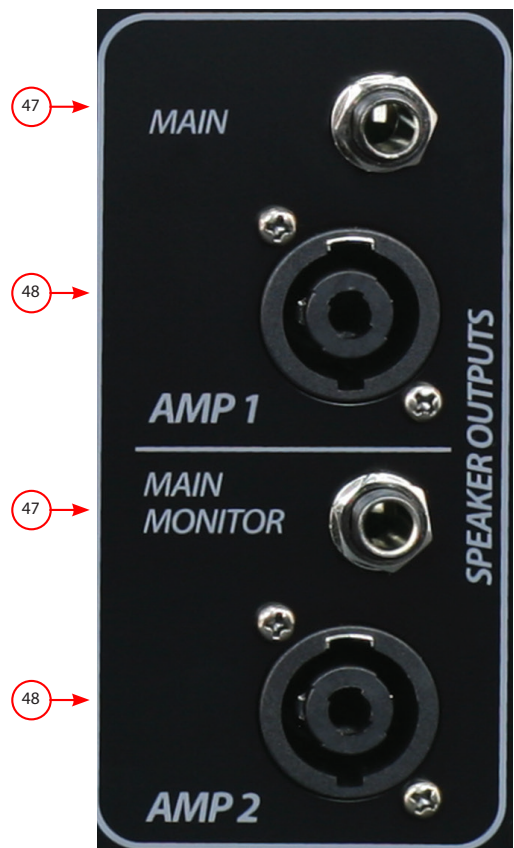
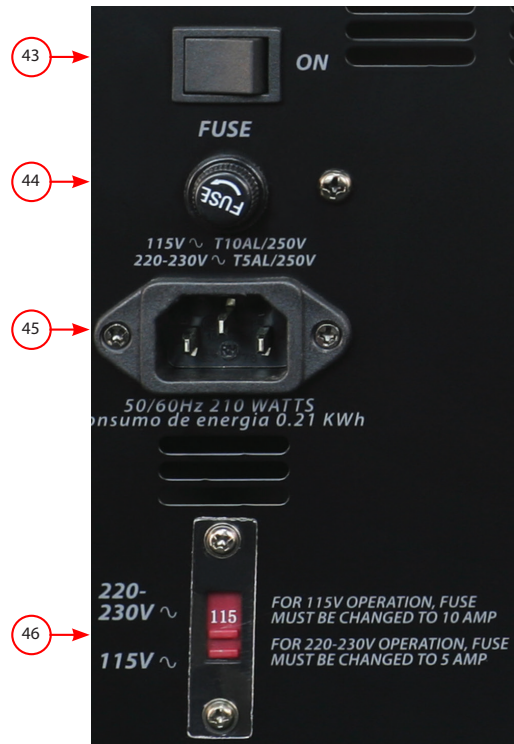


PLATE (TIME)	DESCRIPTION	PREDELAY DAMP FACTOR	ROOM	ROOM SIZE	FRONT END HP	BACK END LP	MORE DESCRIPTIVE NAME
P1	Bright	35 ms					
P2	Gentle LP	48 ms					
P3	Med LP	62 ms					
P4	Hard LP	78 ms					
P5	Dark	95 ms					

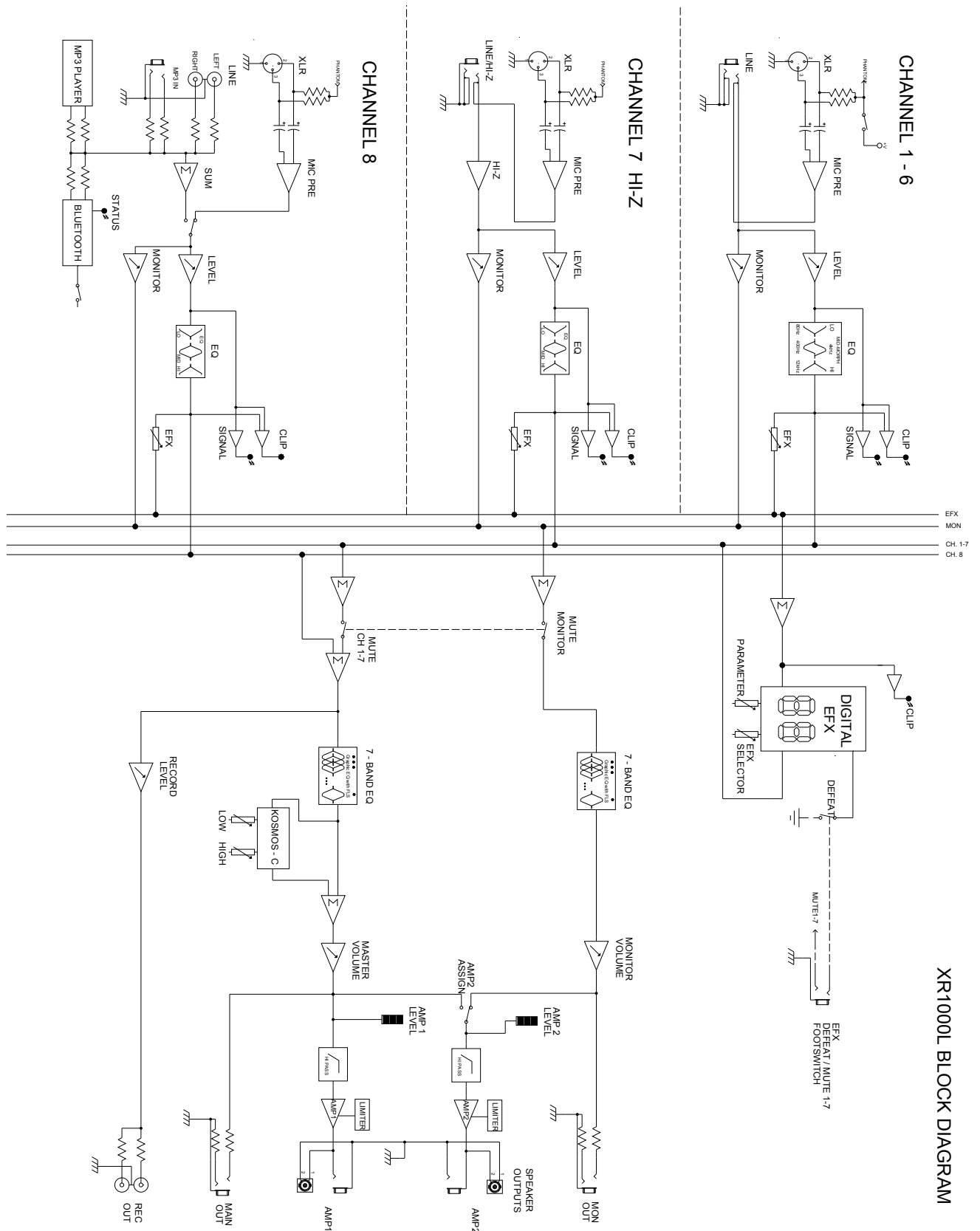
HALL (TIME)							
H1	Vox Fox	35 ms	Med	Med	Subtle	Subtle	Med Hall
H2	Vox Huge	42 ms	Med	Large	Subtle	Subtle	Cathedral
H3	Vox Glow	10 ms	Med	Large	Subtle	Subtle	Auditorium
H4	Strings	30 ms	Med	Med	Subtle	Subtle	Concert Hall
H5	Brass Hall	35 ms	High	Med	Subtle	Moderate	Concert Hall 2

ROOM (TIME)							
R1	Vox Air	30 ms	Low	Small	Aggressive	Subtle	Hard Walls
R2	Vox Club	35 ms	High	Small	Subtle	Moderate	Club
R3	Snare Low	70 ms	Low	Small	Moderate	Subtle	Bathroom
R4	AC GTR	42 ms	Med	Small	Moderate	Subtle	Med Walls
R5	Brass Room	40 ms	High	Med	Subtle	Moderate	Med Room Damped Walls

DELAY (TIME)	
D1	Double
D2	Slapback
D3	Bright, Few Repeats
D4	Bright, More Repeats
D5	Bright, Most Repeats
D6	Dark, Few Repeats
D7	Dark, More Repeats
D8	Dark, Most Repeats

ENHANCE (CUTOFF FREQ)	
E1	Light Harmonics
E2	Moderate Harmonics
E3	Heavy Harmonics

CHORUS (RATE)	PREDELAY	CHORUS TIME	RATE	MODULATION	
C1	High Depth, Slow Rate	10 ms	20 ms	0.1 – 1 Hz	Random Sine
C2	Mod Depth, Wide Rate	10 ms	5 ms	0.5 - 4 Hz	Random Sine
C3	Short Depth, Wide Rate	10 ms	2 ms	0.5 - 6 Hz	Sine
C4	Short Depth, Fast Rate	5 ms	1 ms	5 - 15 Hz	Random Sine
C5	High Depth, Mod Rate	2 ms	20 ms	0.2 - 3 Hz	Random Sine



Specifications

INPUT SENSITIVITY:

Mic In to full power at the power amp. Master Volume Nom.

Full	Nominal
-45 dBu	-25 dBu

Line In to full power at the power amp. Master Volume Nom.

Full	Nominal
-15 dBu	+5 dBu

CHANNEL EQ:

Shelving EQ

Low EQ	80 Hz	±15 dB
Mid-Morph		
Low	250 Hz	±15 dB
High	4 kHz	±15 dB
High EQ	12 kHz	±15 dB

CLIP LED:

Clip LEDs come on 3 dB before clipping.

FREQUENCY RESPONSE:

All controls nominal (detent)

Mic to Main	20 Hz – 20 kHz	+0, -1 dB
Line to Main	20 Hz – 30 kHz	+0, -1 dB
Mic to Amp	50 Hz – 20 kHz	+0, -3 dB
Line to Amp	40 Hz – 20 kHz	+0, -3 dB

PHANTOM POWER:

+15 VOLTS

NOISE:

Main = Main line output, 22 – 22 kHz filter

Amp 1 = Amplifier output, loaded at 4 Ohms, through AP

AUX-0025 switching amplifier filter

All controls full down.

Main <-95 dBu

Amp 1 <-60 dBu

Master Volume nominal

Main <-88 dBu

Amp 1 <-55 dBu

THD:

All controls nominal

<0.01% @ main line output, -26 dBu in mic input Channel 1

<0.1% @ amp 1 @ 400 Watts into 4 Ohms

All controls nominal

<0.005% @ main line output, +4.5 dBu in line input Channel 1

1 <0.1% @ amp 1 @ 400 Watts into 4 Ohms

MASTER EQ:

80Hz	±12 dB
250Hz	±12 dB
500Hz	±12 dB
1kHz	±12 dB
2kHz	±12 dB
4kHz	±12 dB
10kHz	±12 dB

METER ARRAY:

LIMIT

-6 dB
-12 dB
-18 dB
-24 dB
-30 dB

AMP LIMITER:

Limits amplifier power just before clipping. The limiter holds the amp power without clipping and can be driven up to 18 dB past maximum output.

AMPLIFIER OUTPUT POWER:

120VAC

Both channels loaded at 8 ohms: 300 Watts RMS per ch

Both channels loaded at 4 ohms: 500 Watts RMS per ch

POWER REQUIREMENTS:

Domestic:	120VAC 50/60Hz	350 Watts Nominal
Export:	230VAC 50/60Hz	350 Watts Nominal

SIZE:

Dimensions:	H x W x D 11.25" x 19.375" x 10.75"
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WEIGHT: 35.8 lbs.



Features and specifications subject to change without notice.

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This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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Logo referenced in Directive 2002/96/EC Annex IV
(OJ(L)37/36, 13.02.03 and defined in EN 50419: 2005
The bar is the symbol for marking of new waste and
is applied only to equipment manufactured after
13 August 2005