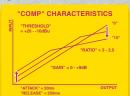


## Serious Live Sound Capability Plus Innovative Digital Features

The EMX5016CF delivers the convenience of an integrated powered mixer with input capacity, flexible features, and solid sound that critical live sound applications demand. It is remarkably compact and portable for a live sound system with this much capability, but offers performance and reliability that will satisfy the discerning professional user either on the road or in installed applications. And thanks to leading Yamaha digital technology, the EMX5016CF also includes a number of innovations that make it easier than ever to achieve top-class sound in just about any venue. An impressive power output of 500 watts per channel means it can handle fairly large audiences, indoors or out. The EMX5016CF goes considerably beyond the standard definition of "powered mixer," entering the realm of serious sound reinforcement.



## EMX 5016CF Up To 12 Mics, 16 Inputs Total 4 Stereo inputs 500 W + 500 W (4Ω) Input Gain Trim and Pads LPF S-band Mid-oween Channel FO. Ons-knob Compression PFL and AFL Monitoring Dual AUX Sends Dual SPX Processors Foodback Suppressor 9-band Digital Graphic EQ FRG System Standby Mode Power Amp Mode Switch YAMAHA Speaker Processing Lightweight Design Lightweight Design (11kg) Rack Mountable Lamp Connector \*Optional Standard gooseneck lamp

# Dimensions mmaa.ii:

**Rear Panel** 



### **Versatile 16-Input Configuration Adapts to Varied Source Requirements**

The EMXS0TGCF has a total of 16 input channels – eight for monaural microphone or line input plus four stereo pairs. The stereo channel pairs can function either as monaural microphone inputs, or stereo line inputs. This system gives used rain incipolate inputs for you coucces are mostly microphones, or if you need to handle more stereo sources the EMXCP will comfortably handle four pairs in addition to eight microaural microphone or line inputs. Switchable phartom power is provided for all microphone inputs.

Auvailed Unitine LQ 
Aband EQ is available on all input channels, but extra versatility is provided on the eight mono channels 
with mid-frequency sweep controls. The mid EQ center frequency can be continuously swept from 250 Hz 
through 5 H/x so you can precisely pinpoint frequencies in the critical midrange that require compensation 
providing significantly enhanced equalization potential.

Ample I/O for Expansion and Integration
All you need to create a powerful, high-performance live sound system is the EMX5016CF, a pair of
speakers or two, and your sources. But it does feature a range of inputs and outputs that allow it to be
expanded with external gear or integrated into larger systems. Insert patch points on the, mono input
channels, for example, it you add outboard signal processing to individual input channels. And although
you have all the monitor power and effects you're lively to need but in, external AUX and EFFECT sends
allow you to trout be themes's signals to external signal processing and/or monitor systems as required.

Stereo out, stereo sub-out, and record outputs are also provided.

### One-knob Compression On Mono Channels

## 9-band Digital Graphic EQ with Presets & Memory

## FRC (Frequency Response Correction) System

### **Automatic Feedback Suppression**

## Multi-band "Maximizer"

# Dual Yamaha SPX Effect Processors The EMX5016CF includes not one but two top-perform

Jual I Yamana Sinz Let Intel Processors

The BMSO1665 foundation do not but how be performance Yamaha SPX digital effect processors built infinitionly need ambience fetchs such as revert and delay for live sound upplications and the BMSO166 includes some of the finest revert and delay for live sound upper land the BMSO166 includes some of the finest reverts and delay fetch so foundations and the EMSO166 includes some of the first reverts and the first reverts and the processor of 16 pequality effects including reverts, echo, chronic, language that ever the control foundation in the first reverts and language that the processor parameters that all processor parameters that all processor parameters that all processor parameters that all processors are defected.

JULIA LAX Settles
AUXT and AUX set seems controls with pre/post fader switching adjust the level of the channel signal sent to
the auxiliary bless for motion or external effects send. The availability of two AUX sends provides
considerable flexibility of reflect and monitor routing. You could, for example, use the channel FFFECT
controls to control send to control send to the internal SPX effect processor while using AUX 2 to feed an external
effects unit, and XIX to feed as date groundor system.

### Other Pro-class Features

Gain controls and 26-dB pad switches allow optimum level matching with just about any source.

80-Hz high pass filters for elimination of unwanted low-frequency noise and rumble.

frequency noise and rumble.

Channel ON switches let you switch individual channels into or out of the mix.

Pair control adjusts the postion of mono channel signals in the stereo sound field, while balance controls on stere ochannels control the balance of the stereo image. High-quality linear faders individually adjust the level of each channel.

PFL (pre-fader listen) switches allow isolated monitoring of individual channels.

All input channels feature signal and peak indicators for visual signal monitoring.

visual signal monitoring.

Linear AUX 1, AUX 2, EFF1 RTN and EFF2 RTN faders with
PFL (pre-fader listen) switches on the effect returns and AFL
(after-fader listen) monitor switches on the auxiliary returns.

Stereo master fader with both PFL and AFL monitor switches

Yamaha Speaker Processing delivers enhanced lows and high-end smoothness with Yamaha Club-series speakers. Limiter indicators tell you when the internal limiter circuitry has been activated due to power amplifier overload.

Power Amp mode selector allows two-channel power amplifier to be quickly configured for Main + Main, Mon + Aux 1, or Aux 1 + Aux 2 operation.

Power amplifier output selector allows selection of 500, 200, or 75 watt output per channel.

Stand-by switch instantly mutes all mono inputs.

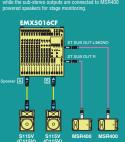
Precise 12-segment stereo level meter.

High-quality SPEAKON speaker connectors for fast, reliable connection.

Rack mountable with the optional RK5014 rack-mount kit.

Console lamp connector accepts standard 3-pin XLR-connector gooseneck lamp (12 volts DC, 5 watts max.).

### System Example 500-watt Mains and Dual Monitors





### **Console Controllability and Versatility**

Consolve That are Uniterlians and control functions provided by the EMXS014C, console style is the only way to with the many tentucing and control functions provided by the EMXS014C, console style is the only way to go. It's still compact enough to the properties of the state of the provided and the state of the s

### **Expanded EQ Capability**

Expanded EU Capability

Like the other EMX-series mixers, the EMX5014C features 3-band EO on all input channels, but goes a step further on the six mono channels with mid-frequency sweep controls. The mid EO center frequency can be continuously sweep from 250 ket through 5 kHz so you can precisely inpinoit frequencies in the critical midrange that require compensation or enhancement, providing significantly greater enhanced talloring potential. The stereo graphic equalizer has also been expanded with 9 bands that can be used for more effective room voicing or feedback control.

### One-knob Compression on Mono Channels

### Feedback Channel Locating (FCL) System

Versatile 14-Input Configuration

The EM/S014C has a total of 14 input channels —six for monaural microphone of line input, plus four stereo pairs. Two of the stereo channels can function either as monaural microphone inputs or stereo ine inputs. Switchable phantom power is provided for all microphone inputs. This system lets you use to eight microphone channels plus thos stereo inputs "your ourses are inestly microphones. Or if you need to handle more stereo sources —say, Background Music, from a DJ mixer, and two stereo keyboards—the EMX5014C will comfortably handle all of these in addition to six monaural microphone or line inputs.

## Comprehensive I/O

Comprehensive I/U

Althoigh the EMS014 Cand a pair of speakers or two are all you need to create a powerful, highperformance live sound system, it features a range of inputs and outputs that allow it to be integrated into 
larger systems. Insert patch points on the more input channels, for example, let you add outboard signal 
processing to findfuld input channels. And although you have all the effects you're likely to need built in, 
and monitor power, external AUX and EFFECT sends allow you to route the mixer's signals to external 
signal processing and/or monitor systems as required. Stereo out, stereo sub-out, and record outputs are 
also provided.

## **SPX Digital Effects**

SYX Digital Effects

Normally you'll only need ambience effects such as reverb and delay for live sound applications – and the EMXG014C includes some of the finest reverb and delay effects available built right in – but if you need other effects as well they're right at your fingertips. You can dial up a selection of 16 top-quality 'Yamaha SYX effects – including reverb, echo, chorus, flanger, phaser, and even distortion. 'Yamaha SYX dightal effects are widely recognized as being some of the finest available, and the effects provided in the EMX mixers five up to that reputation.

### Dual AUX Sends

JULIA LAX SETIUS.

AUX1 and AUX2 sends controls, with prépose fader switching for AUX2, adjust the level of the channel signal sent to the auxiliary busses for mointioning or effects send. Ind. examilable of two AUX sends provides considerable file-holling for effect and mointor routing, You could, for example, use the channel EFFECT controls to could not send to the internal SPX effect processor while using AUX 2 to feed an external effects unit, and to the deal stage mointon system.

### Yamaha Speaker Processing

Tanilation Speaker Flocessing

You'll undoubtedly want to use at least one pair of Yamaha Club-series speakers with the EMX5014C for
the superior sound and projection they provide. If you do you'll really appreciate the enhanced low-end
output and high-end smoothness provided by buill-in Yamaha speaker processing.

## **Rack Mountable**

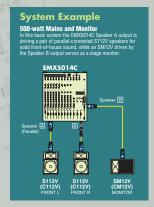
ACK MOUNTABLE
the polional RKS014 rack-mount kit, the EMX5014C can be conveniently mounted in a portable or
talled rack. This has been made possible by a combination of the mixer's configuration and a highly
a cooling system that ensures reliable, stable operation.

### Other Pro-class Features

- Gain controls and 26-dB pad switches allow optimum level matching with just about any source.
- 80-Hz high pass filters for elimination of unwanted low-frequency noise and rumble.
- Channel ON switches let you switch individual channels into or out of the mix.
- Pan control adjusts the position of mono channel signals in the stereo sound field, while balance controls on stereo channels control the balance of the stereo image.
- High-quality linear faders individually adjust the level of each channel.
- . PFL (pre-fader listen) switches allow isolated monitoring of
- All input channels feature signal and peak indicators for visual signal monitoring.
- Linear AUX 1, AUX 2, and EFFECT RTN faders with AFL (after-fader listen) monitor switches.
- Steren master fader with both PEL and AEL monitor switches
- Limiter indicators tell you when the internal limiter circuitry has been activated due to power amplifier overload.
- Power Amp mode selector allows two-channel power amplifier to be quickly configured for Main + Main, Mono + Aux 1, or Aux 1 + Aux 2 operation.



- . Stand-by switch instantly mutes all mono inputs.
- Precise 12-segment stereo level meter.
- . Phones jack with independent level control.
- High-quality SPEAKON speaker connectors for fast, reliable connection. Phone jack connectors are also provided.



## **Integrated Solutions for Superior Live Sound**

Experienced musicians, performers, speakers, and club operators know the importance of a high-quality sound system with the right features and performance to deliver their sound. Where portability and convenience are important criteria, a system based on a highperformance Yamaha EMX-series powered mixer is definitely the way to go. In one integrated, portable unit you have a mixer to combine and balance your microphone, instrument, and line sources, effects to refine and polish your sound, and power to drive the main speakers and even monitor speakers as well. But that's nowhere near the whole story – Yamaha EMX-series Powered Mixers offer a range of features that let you mix, process, and deliver your sound with maximum quality and creative control ... and, of course, that unrivalled Yamaha sound,



## EMX 512sc

For larger venues and audiences, or if you plan to use it for outdoor sound, the EMX512SC with a pair of whopping 500-watt amplifiers to ensure that your music or message comes across with full impact.

Up To 8 Mics, 12 Inputs Total	SPX Digital Effects
2 Stereo inputs	Power Select Switch
500 W + 500 W (4Ω)	Standby Mode
3-band Channel EQ	YAMAHA Speaker Processing
7-band Stereo Graphic EQ	Lightweight Design
One-knob Compression	Angled Cabinet
RGL Sysalterm	Rack Mountable



## EMX 312sc

If you need a little more power -300 watts +300 watts - and the added

may be the model you need.	
Up To 8 Mics, 12 Inputs Total	SPX Digital liffwats
2 Stereo inputs	Power Select Switch
300 W + 300 W (4Ω)	Standby Mode
8-band Channel EQ	YAMAHA Speaker Processing
7-band Storeo Graphic EQ	Lightweight Design
One-knob Compression	Angled Cabinet
FGL System	Rack Mountable
	*Optional RKS12



## EMX212s

wered model in the series offers a pair of 220-watt

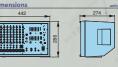
medium size venues.	more than sufficient for small-to-
Up To 8 Mics, 12 Inputs Total	Power Select Switch
2 Stereo inputs	Standby Mode
220 W + 220 W (4Ω)	YAMAHA Speaker Processing
S-band Channel FQ	Lightweight Design
7-band Storeo Graphic EQ	Angled Cabinet
SPX Digital Hillwats	Rack Mountable



# "COMP" CHARACTERISTICS "RATIO" = 3 - 2.5

# 0 O A STEREO





### **Features For Superior Sound and Convenience**

Great Yamaha Sound

Yamaha is a leader in the field or professional live sound for a very good reason: we deliver the
sound and performance that the pros demand. The EMX-series powered mixers are no exception.
They're built at the same standards of sonic performance and rugged reliability that makes. Yamaha the first choice for live sound applications from schools to stadiums around the globe.

## One-knob Compression on Mono Channels (EMX512SC & EMX312SC)

Feedback Channel Locating (FCL) System

### 12 Inputs

12 Inputs
All three mixers in this series offer a total of 12 input channels – four for monaural microphone (incl. 
Phantom Power) or line input, plus four pairs that can function either as monaural microphone inputs or 
stereo line inputs – providing you with a versatile mix of input capabilities for a wide range of 
applications. If you need only microphone inputs you can use up to eight mix of brannels. Or if, for 
example, you want to play recorded background music during breaks (that's one stereo channel), you talk 
you have a keyboard player with a stereo-output keyboard (that's one more stereo channel), you still have 
six micribine inputs. If you use all flour stereo pairs to handle stereo line sources you have four channels 
available for mono mic or line input. This is a very versatile system that can adapt to your needs.

## High Power For Main and Monitor Speakers

HIGH POWER FOR MAIN and MONITOR Speakers
These powered mixers certainly don't skimp on power, From the EMX212S with
200 watts per channel to the EMX512SC with a solid 500 watts per channel,
there's a power configuration to suit any application and venue. All models also
feature a power mode switch that jets you use the two power channels as a
stereo amplifier, or you can use one of the channels for the main speaker(s) and
the other to drive monitors with a separate monitor mix set up via the channel
MONITOR amender. MONITOR controls.

The EMX212S, EMX312SC, and EMX512SC all feature a selection of 16 top-quality Yamaha SPX The Emba 225, Emba 2255, and Emba 255 an Haure a selection for 10 typicality Familian of 74.

Feffects — including reverb, echo, chorus, flanger, phaser, and even distortion — that can add the final touch to your live presentation. Yamaha SPX digital effects are widely recognized as being some of the finest available, and the effects provided in the EMX mixers live up to that reputation.

### Built-in Graphic EQ

Graphic equalizers are provided for both the main and monitor channels, so you can effectively control feedback or tailor the sound to the match the room and program material.

When you're done with a set, simply engage the stand-by mode to mute all mono channels while leaving the 2-track inputs active for background music playback while you're taking your break.

## Yamaha Speaker Processing

Yamaha Club-series speakers are fine performers in their own right, but with Yamaha Speaker Processing you get extra-smooth highs and enhanced low-frequency output.

Durable, Lightweight Design

The EMX powered mixers offer the ideal combination of outstanding sound performance and easy handling. They're lightweight—only 8 kilograms (17.6 lbs.) —and feature conveniently located handles for maximum carrying comfort. They're also built tough to withstand the rigors of use on the road.





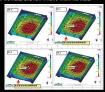


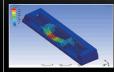


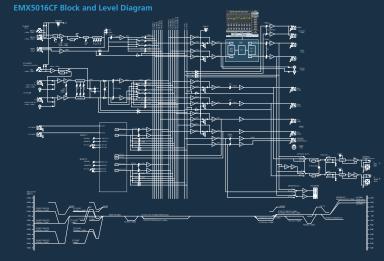
## An Interview with the EMX Design Team

Built-in Compression Adds Live-sound Versatility to the new EMX-









## EMX5016CF Specifications GENERAL SPECIFICATION

	EMXS016CF
Maximum Output Power © 0.5 % THD at 1 kHz	500 W/4 $\Omega$ 350 W/8 $\Omega$ (UA) 320 W/8 $\Omega$ (H)
Frequency Response	-3, 0, 1 dB 20Hz-20kHz, ref to the 1kHz output level, GAIN-MIN, PAD+OFF
Total Harmonic Distortion	Less than 0.3 % (THD+N) +14dBu output into 600 Ω @ 20 Hz-20 kHz
Hum & Noise	Equivalent Input Noise, -128 dBu, GAIN+MAX, 20 Hz-20 kHz, CH1-8 MIC
Crosstalk @ 1 kHz	-68 dB
Input Connectors	CH 1-8: XLR and Phone CH 9/10-15/16: XLR. Phone and Pin
CHANNEL EQ	CH 1-8: HIGH (10 k, Shelving), MID (mono: 250-5 k, st 2.5 k, Peaking), LOW (100, Shelving) CH 9/10-15/16: HIGH (10 k, Shelving), MID (st: 2.5 k, Peaking), LOW (100, Shelving)
Phantom Voltage	48 V
Digital Graphic Equalizer	9 Band (63, 125, 250, 500, 1 k, 2 k, 4 k, 8 k, 16 kHz), Preset x 3, User preset x 3
Digital Effects	SPX Digital Multi Effector (24 bit AD/DA, 32 bit Internal Processing): 16 Programs x 2
Power Amp. Mode	LIR, AUX1/MONO, AUX1/2
Foot Switch	Effect On/Off
Dimensions (W x D x H)	444 x 493 x 155 mm (17-3/g' x 19-3/g' x 6-1/g')
Weight	11 kg (24.2 lbs.)
Power Requirements/Consumption	120 V 60 Hz, 500W 220-240 V 50 Hz, 500W

um & Noise	Equivalent Input Noise, -128 dBu, GAIN+MAX, 20 Hz-20 kHz, CH1-8 MIC
rosstalk @ 1 kHz	-68 dB
put Connectors	OH 1-8: XLR and Phone OH 9/10-15/16: XLR. Phone and Pin
HANNEL EQ	OH 1-8: HIGH (10 k, Shelving), MID (mono: 250-5 k, st 2.5 k, Peaking), LOW (100, Shelving) OH 9/10-15/16: HIGH (10 k, Shelving), MID (st: 2.5 k, Peaking), LOW (100, Shelving)
hantom Voltage	48 V
igital Graphic Equalizer	9 Band (63, 125, 250, 500, 1 k, 2 k, 4 k, 8 k, 16 kHz), Preset x 3, User preset x 3
igital Effects	SPX Digital Multi Effector (24 bit AD/DA, 32 bit Internal Processing): 16 Programs x 2
ower Amp. Mode	L/R, AUX1/MONO, AUX1/2
oot Switch	Effect On/Off
imensions (W x D x H)	444 x 493 x 155 mm (17-3/g' x 19-3/g' x 6-1/g')
feight	11 kg (24.2 lbs.)
ower Requirements/Consumption	120 V 60 Hz, 500W 220-240 V 50 Hz, 500W
l level controls are nominal, when measured. (	Output Impedance of signal generator: 150 CL
\da_	

Innut Terminals	PAN	GAIN	Actual Load	For Use With		Input Level		
Input terminas	HALI	GAIN	Impedance	Nominal	Sensitivity *2	Position	Max. Before Clip	Connector
	OVE	-60 dB			-80 dBu (0.078 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	
CHINPLITA 1.8	ueb	-16 dB	3io	50-600 m	-38 dBu (12.3 mV)	-16 dBu (123 mV)	+4 dBu (1.23 V)	XLR-3-31 type *3
LATINFULA I-O	264R	-34 dB	3111	Mics	-\$4 dBu (1.55 mV)	-34 dBu (15.5 mV)	-14 dBu (155 mV)	ALTRI-3-31 type -3
	1000	+10 dB			-10 dBu (245 mV)	+10 #Bu (2.45 V)	+30 (B) (24.5 V)	
	60 dB			-80 dBu (0.078 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 V)		
CH INPUT 8 1-8		-16 dB	10 ks2	600 Ω Lines	-36 dBu (12.3 mV)	-16 dBu (123 mV)	+4 dBu (1.23 V)	Phone Jack *4
	264R	-34 dB			-54 dBu (1.55 mV)	-34 dBu (15.5 mV)	-14 dBu (155 mV)	
	1000	+10 dB			-10 dBu (245 mV)	+10 dBu (2.45V)	+30 dBu (24.5 V)	
ST CH MIC INPUT		-60 dB	Sin	50-600 m	-80 dBu (0.078 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 type *3
9/10-15/16	_	-16 dB	7.11	Mics	-36 dBu (12.3 mV)	-16 dBu (123 mV)	-10 dBu (245 mV)	ALICOUNTY O
ST CH LINE INPUT	_	-34 dB	10 kg	600 sa	-54 dBu (1.55 mV)	-\$4 dBu (15.5 mV)	-14 dBu (155mV)	Phone Jack *5
9/10-15/16	_	+10 dB	10 112	Lines	-10 dBu (245 mV)	+10 dBu (2.45 V)	+30 dBu (24.5 V)	RCA Pin Jack
CH INSERT IN	_	_	10 ks2	600 Ω Lines	-20 dBu (77.5 mW)	0 dBu (0 775 V)	+20 dBu (7.75 V)	Phone Jack *5

# Rack Mount Adaptor RK5014 The EMX5016CF can be rack-mounted using an optional rack-mounting kill for optimum integration with any system or installation.

Output Terminals	Actual Source		Output Level	Output Level		
	Impedance		Morninal	Max. Before Clip	Connector	
ST OUT (L, R)	150 £	600 Ω Lines	+4 dBu (1.23 V)	+20 d8u (7.75 V)	Phone Jack *2	
ST SUB OUT (L, R)	150 Ω	600 Ω Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack *2	
AUX SEND 1, 2	150 Ω	600 Ω Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack *2	
EFF SEND 1, 2	150 £2	600 Ω Lines	+4 dB₂ (1.23 V)	+20 d8u (7.75 V)	Phone Jack *2	
CH INSERT OUT 1-8	600 Ω	10 ks2 Lines	0 dBu (0.775 V)	+20 d8u (7.75 V)	Phone Jack *2	
REC OUT (L, R)	600 D	10 kΩ Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack	
PHONES [L, R]	100 £2	40 Ω Lines	3mW	7SmW	Phone Jack (TRS)	
SPEAKERS	0.1 Ω	4 Ω Speakers	125W	500W	SPEAKON Phone Jack *2	

### EMX5014C Specifications

	EMXS014C
Maximum Output Power © 0.5 % THD at 1 kHz	500 W/4 $\Omega$ 350 W/8 $\Omega$ (UA) 320 W/8 $\Omega$ (H)
Frequency Response	-3, 0, 1 dB 20 Hz-20 kHz, ref to the nominal output level 68 1 kHz
Total Harmonic Distortion	Less than 0.3 % (THD+N) +14dBu output into 600 Ω © 20 Hz-20 kHz
Hum & Noise	Equivalent Input Noise, -128 dBu, GAIN-MAX, 20 Hz-20 kHz, ST OUT
Crosstalk @ 1 kHz	-68 dB
Input Connectors	CH 1-6: XLR and Phone CH 7/8, 9/10: XLR and Phone CH 11/12, 13/14: XLR and Pin
EO	HIGH (10 k, Shelving), MID (mono: 250-5 k, st: 2.5 k, Peaking), LOW (100, Shelving)
Phantom Voltage	48 V
Graphic Equalizer	9 Band (63, 125, 250, 500, 1 k, 2 k, 4 k, 8 k, 16 kHz)
Digital Effects	SPX Digital Multi Effector (24 bit AD/DA, 32 bit Internal Processing): 16 Programs
Power Amp. Mode	L/R, AUX1/MONO, AUX1/2
Foot Switch	Effect On/Off
Dimensions (W x D x H)	444 x 493 x 155 mm (17.3/g' x 19.3/g' x 6.1/g')
Weight	10.5 kg (23.1 lbs.)
Power Requirements/Consumption	UC: 120 V 60 Hz, 450 W H: 230 V 50 Hz, 450 W BS: 240 V 50 Hz, 450 W



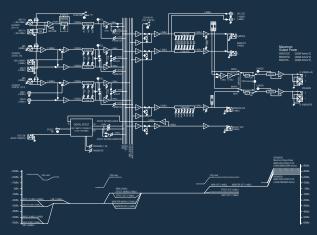
## INPUT CHARACTERISTICS

nya umaa			Impedance	Nominal	Sensitivity *2	Position	Max. Before Clip	Comments	
	OVE	-60 dB			-90 dBu (0.078 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)		
CH INPUT A 1-6		-16 dB	3 ko	50-600 Ω	-36 dBu (12.3 mV)	-16 dBu (123 mV)	+4 dBu (1.23 V)	11 R.3.31 tone *3	
	26/8	-34 dB	· · · ·	Mics	-54 dBu (1.55 mV)	-34 dBu (15.5 mV)	-14 dBu (155 mV)	ALII-O-OTTIPRE O	
		+10 dB			-10 dBu (245 mV)	+10 dBu (2.45 V)	+30 dBu (24.5 V)		
	OVE	-60 dB			-30 dBu (0.078 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 V)		
CHINDIT R 1.6	-16 dB	10 kg	600 n	-36 dBu (12.3 mV)	-16 dBu (123 mV)	+4 dBu (1.23 V)	Phone Jank *4		
2668	-34 dB		Lines	-54 dBu (1.55 mV)	-34 dBu (15.5 mV)	-14 dBu (155 mV)	11010 2001 4		
	2000	+10 dB			-10 dBu (245 mV)	+10 dBu (2:45V)	+30 dBu (24.5 V)		
		-60 dB	3 kg	50-600 Ω	-80 dBu (0.078 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 type *3	
ST CH INPIT	_	-16 dB		Mics	-38 dBu (12.3 mV)	-16 dBu (123 mV)	-10 dBu (245 mV)	ALTO STIPE S	
7/8-9/10 —		-34 dB	10 kg	600 n	-54 dBu (1.55 mV)	-34 dBu (15.5 mV)	-14 dBu (155 mV)	Phone Jark *5	
	_	+10 dB	10 KLT	Lines	-10 dBu (245 mV)	+10 dBu (2.45 V)	+30 dBu (24.5 V)	Processing '5	
ST CH INPUT		-34 dB	1010	600 m	-54 dBu (1.55 mV)	-34 dBu (15.5 mV)	-14 dBu (155mV)	Phone Jack *5	
11/12-13/14	_	+10 dB 10 kΩ	10 822	10 ks2 Lines	-10 dBu (245 mV)	+10 dBu (2.45 V)	+30 dBu (24.5 V)	RCA Pin Jack	
CH INSERT IN (1-6)	_	-	10 kΩ	600 Ω Lines	-20 dBu (77.5 mV)	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone Jack *5	

OUTPUT CHARACTERISTICS

Output Terminals	Actual Source	For Use With	Output Level	Output Level		
	Impedance	Nominal	Nominal	Max. Before Clip	Connector	
ST OUT (L, R)	150 Ω	600 Ω Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack *2	
ST SUB OUT (L, R)	150 Ω	600 Ω Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack *2	
	150 Ω	600 Ω Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack *2	
EFFECT SEND	150 Ω	600 Ω Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack *2	
CH INSERT OUT 1-6	600 ₪	10 km Lines	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone Jack *2	
REC OUT [L, R]	600 Ω	10 kΩ Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack	
PHONES (L, R)	100 Ω	8 Ω/40 Ω Lines	1mW3mW	20n/W/75nnW	Phone Jack (TRS)	
SPEAKER OUT	0.1 Ω	4 🖸 Speakers	125W	SOOW	SPEAKON Phone Jack *2	

EMIX5125C, EMIX3125C, EMIX2125 Block and Level Diagram



### EMX512SC, EMX312SC, EMX212S Specifications

	EMX512SC	EMD/312SC	EM0/212S		
Maximum Output Power © 0.5 % THD at 1 kHz	500 W/4 Ω 350 W/8 Ω (UA) 320 W/8 Ω (H)	300 W/4 Ω 190 W/8 Ω (UA) 180 W/8 Ω (H)	220 W/4 Ω 130 W/8 Ω (UA) 130 W/8 Ω (H)		
Frequency Response	-3, 0, 1 dB 20 Hz-20 kHz, ref to the nomi	nal output level @ 1 kHz			
Total Harmonic Distortion	Less than 0.5 % (THD+N) +14 dB @ 20 Hz, 1 kHz, 20 kf	tr, GAIN control: all nominal			
Hum & Noise*1	Equivalent Input Noise, -115 dBu, Rs = 150 Ω CH 1-4 MIC/LINE: MIC				
Crosstalk @ 1 kHz	-65 dB				
Input Connectors	CH 1-4: XLR and Phone CH 5-6, 7/8: XLR and Phone CH 91/0, 11/12: XLR and Pin				
EO	HIGH (10 k, Shelving), MID (2.5 k, Peaking), LOW (100, Shelving)				
Phantom Voltage	15 V				
Graphic Equalizer	7 Band (125, 250, 500, 1 k, 2 k, 4 k, 8 kHz): Main (Stereo) and Monitor				
Digital Effects	SPX Digital Multi Effector (24	bit AD/DA, 32 bit Internal Proce	ssing): 16 Programs		
Power Amp. Mode	MAIN L/R, MAIN (L+R)/MON	TOR			
Foot Switch	Effect On/Off				
Dimensions (W x D x H)	442 x 274 x 286 mm (17-3/g* x 10-3/g* x 11-3/g*)				
Weight	8 kg (17.6 lbs.)				
Power Requirements/Consumption	LVC: 120 V 60 Hz, 450 W H: 230 V 50 Hz, 450 W A: 240 V 50 Hz, 450 W	U/C: 120 V 60 Hz, 400 W H: 230 V 50 Hz, 400 W A: 240 V 50 Hz, 400 W	U/C: 120 V 60 Hz, 270 V H: 230 V 50 Hz, 270 W A: 240 V 50 Hz, 270 W		



Rack Mount Adaptor RK512
All models in this series can be rack-mounted using an optional rack-mounting kit for optimum integration with any system or installation.

### INPUT CHARACTERISTICS

Input Terminals		MICH INF	Actual Load	Actual Load For Use With Impedance Nominal		Input Level Sensitivity *2 Position Max Before Clip			
		MIGUNE				Position	Max. Before Clip	Connector	
	XLR	MIC	2 kΩ	-60 dBu 50-600 Ω (0.69 m/)		-\$5.6Bu (13.8 mV)	-15 dBu (138 mV)	XLR-3-31 type *3	
CH INPICT 1.4	**	LINE	Z KG2 Mics	-30 dBu (21.8 mV)	-5 dBu (436 mV)	(4.36V)	XLH-3-31 type *3		
Phon		MIC	δkΩ	600 Ω	-50 dBu (2.18 mV)	-25.68u (43.6 mV)	-5 dBu (436 mV)	Phone Jack *4	
	Phone	LINE		0.627	0111	****	60012	-20 dBu (69.0 mV)	+5 (Bu (1.38 V)
CH INPUT	XLR	-	2 kΩ	50-600 rz Mics	-60 dBu (0.60 mV)	-\$5.6Bu (13.8 mV)	-15 dBu (138 mV)	XLR-3-31 type *3	
	Phone	-	10 kΩ 600 Ω Lines		-20 dBu (69.0 mV)	+5 (Bu (1:38 V)	機制	Phone Jack *5	
CH INPUT	H INPUT XLR — 2 kg	2 kΩ	50-600 rz Mics	-60 dBu (0.60 mV)	-\$5.6Bu (13.8 mV)	-15 dBu (138 mV)	XLR-3-31 type *3		
9/10, 11/12	Pin	-	10 kΩ	600 Ω Lines	-20.dBu (89.0 mV)	+5 (Bu (1.38 V)	(経費)	RCA Pin Jack	

O did to reference to 0.775 kms.

Samishity is the levest level that will predice an output of +4 dB (1.23 k), or the nominal output level when the unit is set to maximum level.

(All level controls are at maximum position.)

3. NR-3-01 kyes connections are bilanced in Lindato, 2-MOT, 3-GOLD)

### '5 Priore Jacks are unbalanced.

Output Terminals	Actual Source Impedance	Nominal		Gelpai Level		Connector
				Nominal	Max. Before Clip	Connector
SPEAKER OUT [A1, A2, B1, B2]	0.1 £2	4 Ω Speakers	EMX512SC	125 W	500 W	(A1, B1) SPEAKON (A2, B2) Phone Jack *2
			EMXX312SC	75 W	300 W	
			EM002128	50 W	200 W	
MAIN OUT (L, R)	Ω 000	10 km Lines	-	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack *2
EFFECT OUT	Ω 000	10 km Lines	-	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack *2
	ω 000	10 km Lines	-	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack *2
REC OUT [L, R]	Ω 000	10 km Lines	-	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack

11 0 dBu is referenced to 0.775 Vms. 0 dBV is referenced to 1 Vms.
2 Phone Jacks are unbalanced.

Specifications and appearance suject to change without I transmites and seriotened transmites are remarks of their respective of