

MG24/14FX

MIXING CONSOLE

Panel Layout



MG32/14FX

MIXING CONSOLE



MG24/14FX



MG32/14FX



Serious Capacity For Sound Reinforcement & Installations

If your application is live sound reinforcement you'll want all the channel capacity you can get — just in case. Vocal mics, instrument mics, stereo keyboards, direct-injection feeds, drum mics, and the rest can add up very quickly. With 24 and 32 input channels, respectively, the MG24/14FX and MG32/14FX are ready to handle all but the most ambitious sound-reinforcement setups. And with dual SPX digital effect systems on-board you won't need racks of outboard gear to get the sound you need. There's also a comprehensive range of group and auxiliary busses to make even complex mixes easy.

INPUT SECTION

24 or 32 Input Channels

Choose either the 24-channel MG24/14FX or the 32-channel MG32/14FX according to your needs. All other features are the same. The MG24/14FX has 16 mono microphone/line channels while the MG32/14FX has 24. Both offer four stereo line channels in addition to the mono mic/line channels. Gain trim covers a wide -60dB to +16dB range for microphone input, and -34dB to +10dB for line input. Peak indicators are also provided for effect input gain setup.

A Variety of Input Connectors

Balanced XLR and phone-jack connectors are provided on all mono inputs (channels 1 - 16 on the MG24/14FX, and channels 1 - 24 on the MG32/14FX). Two of the stereo channels feature both pin-jack and phone jack connectors. A separate stereo 2TR input with pin-jack connectors is provided for independent input of signals from CD players or similar sources.

Low-noise, High-precision Mic Preamps

All 16 mic preamps in the MG24/14FX and all 24 mic preamps in the MG32/14FX are of exemplary quality. They offer low-noise, transparent amplification with the widest possible range of dynamic and condenser microphones, which adds up to cleaner, better-sounding mixes.

Switchable Phantom Power

All mic preamps feature switchable +48V phantom power for phantom-powered studio condenser microphones. Phantom power is switchable in 8-channel groups.

Insert I/O

All mono input channels feature insert I/O patch points so you can insert compressors, EQ, or other extra signal-processing gear into the channel signal path as required. Insert patch points are also provided on the stereo and group buses for effective output processing.

Versatile EQ for Effective Sound Shaping

Mono channels feature 3-band equalizers with HIGH (10 kHz), LOW (100 Hz), and MID (250 Hz - 5 kHz sweep) bands. High-pass filters are also provided on all microphone inputs. Stereo channels have 4-band equalizers with HIGH (10 kHz shelving), HI MID (3 kHz peaking), LOW MID (800 Hz peaking), and LOW (100 Hz shelving) bands.

MASTER SECTION

14 Buses In All For Flexible Signal Routing

In addition to lots of input channels, live sound reinforcement applications usually demand a number of additional mixes — usually in the form of group sub-mixes and aux sends for external signal processing and monitor mixes. In both the MG24/14FX and MG32/14FX you have a total of 14 mix busses: the main stereo program bus, four stereo group bus pairs for convenient channel grouping, six auxiliary busses (four configurable for pre- or post-fader operation and two set up as effect sends), and two internal effect busses that feed the dual high-performance built-in effect processors. You can use the bus select switches and controls on each channel to assign the channel signal to the stereo, group, internal effect, and AUX buses as required.

Six Aux Sends & Two Stereo Aux Returns

All input channels feature six AUX send controls. AUX sends 1 through 4 are pre/post switchable while AUX 5 and 6 are post-fader sends. Two effect sends are also provided. You choose you have plenty of flexibility for external signal processing and monitoring in live sound-reinforcement applications. Two stereo auxiliary returns are included, as well as return facilities for the internal effect stages.

A Comprehensive Selection Of Output Connectors

In addition to the main L and R XLR and phone-jack stereo outputs, these versatile mixers also offer L and R phone-jack sub-stereo, pin-jack recording, XLR mono, and stereo phone-jack headphone outputs. You have plenty of outputs for a wide range of applications — monitoring, master recorder feed, etc. Phone-jack group outputs are also provided to allow independent output of the group bus mixes.

Balanced XLR Stereo and Mono Outputs

Professional connectivity is provided by reliable XLR-type balanced stereo and mono outputs.

Sweepable LPF for Mono Out

One of the many uses for a mono output is to drive a subwoofer system. The MG24/14FX and MG32/14FX make this easier than ever with a built-in 80 - 120 Hz sweepable low-pass filter on the mono outputs.

12-segment Meters for Accurate Visual Monitoring

Output level monitoring is made accurate and easy with four high-visibility 12-segment level meters that can be switched to display the stereo, group, 2TR input, PFL (Pre-fader Listen), and AFL (After-fader Listen) signal levels.

EASE OF USE

Dual SPX Digital Effects

In the MG24/14FX and MG32/14FX you have not one, but two high-performance digital signal processing stages, fed by separate effect busses, so you can enhance your mix with two separate effects at the same time. And the effects are provided by the very latest Yamaha DSP technology — you know you're getting the best.

Each stage provides a selection of 16 professional-quality SPX digital effects, including reverb, delay, pitch change, chorus, phasing, vocal doubling, distortion, and more.

Parameter controls that can be adjusted to tailor the effects to your sonic requirement are also provided and Tap delay makes it easy to produce tempo-synchronized delays.



Effect List

Effect A

1. REVERB HALL
2. REVERB ROOM
3. REVERB PLATE
4. REVERB VOCAL 1
5. REVERB VOCAL 2
6. VOCAL ECHO 1
7. VOCAL ECHO 2
8. DELAY 1
9. DELAY 2
10. MOD. DELAY
11. REVERB GATE
12. PITCH CHANGE
13. CHORUS
14. PHASER
15. RADIO VOICE
16. TREMOLO

Effect B

1. REVERB HALL
2. REVERB ROOM
3. REVERB PLATE
4. REVERB VOCAL 1
5. REVERB VOCAL 2
6. VOCAL ECHO 1
7. VOCAL ECHO 2
8. DELAY 1
9. DELAY 2
10. EARLY REF.
11. GATE REVERB
12. VOCAL DOUBLER
13. SYNTHRONIC
14. FLANGE
15. DISTORTION
16. TAP DELAY

Reliable 60-millimeter Faders & Illuminated Switches

Reliable, high-performance 60-millimeter faders provide smooth, noise-free level control, while original Yamaha illuminated ON (ST buss assign), PFL (Pre-fader Listen), and phantom power switches provide easy visual confirmation of critical console settings.

Talkback Input

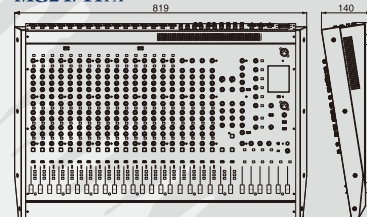
Communication capability is important for efficient setup as well as for keeping a show running smoothly. The MG24/14FX and MG32/14FX both feature a talkback system that allows the FOH engineer to communicate with the monitor engineer, performers, or other staff to keep the team operating at optimum efficiency.

Compact, Portable Design

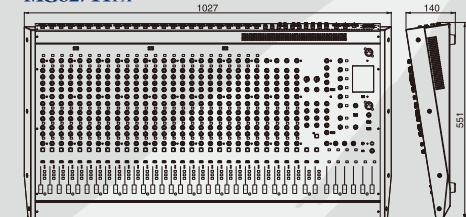
Compact and surprisingly light in weight, these mixers can easily be carried just about anywhere. You get top-quality mixing performance in the rehearsal studio, club, outdoors... wherever you need it.

DIMENSIONS

MG24/14FX



MG32/14FX



MG Series Specifications

MG10/2 INPUT CHARACTERISTICS

Connection	Gain Trim	Actual Load Impedance	For Use With Nominal	Input Level ¹⁾		Connector to Mixer
				Nominal	Max. before Clip	
CH IN MIC (1-2)	-50	3 kΩ	50 - 600 Ω Mics	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 type ²⁾
CH IN LINE (1-2)	-34	10 kΩ	600 Ω Lines	-34 dBu (15.5 mV)	-14 dBu (155 mV)	Phone Jack (TRS) ³⁾
ST CH MIC IN (CH 3 - 4, 5 - 6)	-50	3 kΩ	50 - 600 Ω Mics	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 type ²⁾
ST CH LINE IN (CH 3 - 4, 5 - 6)	-34	10 kΩ	600 Ω Lines	-34 dBu (15.5 mV)	-14 dBu (155 mV)	Phone Jack ⁴⁾
ST CH INPUT (CH 7 - 8, 9 - 10)	-50	10 kΩ	600 Ω Lines	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	Phone Jack ⁴⁾
CH INSERT IN (1-2)	-10	10 kΩ	600 Ω Lines	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁵⁾
AUX RETURN (L,R)	-10	10 kΩ	600 Ω Lines	+4 dBu (1.23 V)	+24 dBu (12.3 V)	Phone Jack ⁶⁾
2TR IN (L,R)	-10	10 kΩ	600 Ω Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack

MG10/2 OUTPUT CHARACTERISTICS

Connection	Actual Source Impedance	For Use With Nominal	Output Level ¹⁾		Connector to Mixer
			Nominal	Max. before Clip	
ST OUT (L,R)	150 Ω	10 kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
AUX SEND	150 Ω	10 kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
CH INSERT OUT (1-2)	150 Ω	10 kΩ Lines	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁵⁾
2TR OUT (L,R)	600 Ω	10 kΩ Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack
C-R OUT (L,R)	150 Ω	10 kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
PHONES OUT	100 Ω	40 Ω Phones	3 mW	75 mW	Stereo Phones Jack

MG8/2FX INPUT CHARACTERISTICS

Connection	Gain Trim	Actual Load Impedance	For Use With Nominal	Input Level ¹⁾		Connector to Mixer
				Nominal	Max. before Clip	
CH IN MIC (1-2)	-50	3 kΩ	50 - 600 Ω Mics	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 type ²⁾
CH IN LINE (1-2)	-34	10 kΩ	600 Ω Lines	-34 dBu (15.5 mV)	-14 dBu (155 mV)	Phone Jack (TRS) ³⁾
ST CH MIC IN (CH 3 - 4, 5 - 6)	-50	3 kΩ	50 - 600 Ω Mics	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 type ²⁾
ST CH LINE IN (CH 3 - 4, 5 - 6)	-34	10 kΩ	600 Ω Lines	-34 dBu (15.5 mV)	-14 dBu (155 mV)	Phone Jack ⁴⁾
ST CH INPUT (CH 7 - 8, 9 - 10)	-50	10 kΩ	600 Ω Lines	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	Phone Jack ⁴⁾
CH INSERT IN (1-2)	-10	10 kΩ	600 Ω Lines	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁵⁾
AUX RETURN (L,R)	-10	10 kΩ	600 Ω Lines	+4 dBu (1.23 V)	+24 dBu (12.3 V)	Phone Jack ⁶⁾
2TR IN (L,R)	-10	10 kΩ	600 Ω Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack

MG8/2FX OUTPUT CHARACTERISTICS

Connection	Actual Source Impedance	For Use With Nominal	Output Level ¹⁾		Connector to Mixer
			Nominal	Max. before Clip	
ST OUT (L,R)	150 Ω	10 kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
EFFECT SEND	150 Ω	10 kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
CH INSERT OUT (1-2)	150 Ω	10 kΩ Lines	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁵⁾
C-R OUT (L,R)	150 Ω	10 kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
PHONES OUT	100 Ω	40 Ω Phones	3 mW	75 mW	Stereo Phones Jack

MG12/4, MG16/4 INPUT CHARACTERISTICS

Connection	Gain Trim	Actual Load Impedance	For Use With Nominal	Input Level ¹⁾		Connector to Mixer
				Nominal	Max. before Clip	
CH IN MIC ⁷⁾	-50	3 kΩ	50 - 600 Ω Mics	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 type ²⁾
CH IN LINE ⁷⁾	-34	10 kΩ	600 Ω Lines	-34 dBu (15.5 mV)	-14 dBu (155 mV)	Phone Jack (TRS) ³⁾
ST CH MIC IN ⁸⁾	-50	3 kΩ	50 - 600 Ω Mics	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 type ²⁾
ST CH LINE IN ⁸⁾	-34	10 kΩ	600 Ω Lines	-34 dBu (15.5 mV)	-14 dBu (155 mV)	Phone Jack ⁴⁾
ST CH INPUT ⁹⁾	-50	10 kΩ	600 Ω Lines	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	Phone Jack ⁴⁾
CH INSERT IN (1-4)	-10	10 kΩ	600 Ω Lines	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁵⁾
SUB IN (1, 2) (L,R)	-10	10 kΩ	600 Ω Lines	+4 dBu (1.23 V)	+24 dBu (12.3 V)	Phone Jack ⁶⁾
2TR IN (L,R)	-10	10 kΩ	600 Ω Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack

MG12/4, MG16/4 OUTPUT CHARACTERISTICS

Connection	Actual Source Impedance	For Use With Nominal	Output Level ¹⁾		Connector to Mixer
			Nominal	Max. before Clip	
ST OUT (L,R)	150 Ω	600 Ω Lines	+4 dBu (1.23 V)	+24 dBu (12.3 V)	XLR-3-32 type ¹⁰⁾
GROUP OUT (1-4)	150 Ω	600 Ω Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
AUX OUT (1-6)	150 Ω	600 Ω Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
CH INSERT OUT (1-4)	150 Ω	10 kΩ Lines	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁵⁾
REC OUT (L,R)	150 Ω	10 kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
C-R OUT (L,R)	150 Ω	10 kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
PHONES OUT	100 Ω	40 Ω Phones	3 mW	75 mW	Stereo Phones Jack

¹⁾ In these specifications, when dB represents a specific voltage, 0 dB is referenced to 0.775 Vrms.
²⁾ All gain connections are balanced.
³⁾ CH IN MIC (TRS) and CH IN LINE (TRS) are balanced (1 HOT, 0 COLD, 2 SHIELD).
⁴⁾ Phone Jack (TRS) is balanced.
⁵⁾ Phone Jack (TRS) is unbalanced (1 OUT, 0 IN, 2 SHIELD).
⁶⁾ Phone Jack (TRS) is balanced (1 HOT, 0 COLD, 2 SHIELD).
⁷⁾ MG12/4 CH1 - CH4, MG16/4 CH1 - CH4, MG12/4FX CH1 - CH4, MG16/4FX CH1 - CH4.
⁸⁾ MG12/4 CH5 - CH8, MG16/4 CH5 - CH8, MG12/4FX CH5 - CH8, MG16/4FX CH5 - CH8.
⁹⁾ MG12/4 CH9 - CH10, MG16/4 CH9 - CH10, MG12/4FX CH9 - CH10, MG16/4FX CH9 - CH10.
¹⁰⁾ XLR-3-32 type is balanced (1 HOT, 0 COLD, 2 SHIELD).
¹¹⁾ In XLR Pin sockets is unbalanced.
¹²⁾ MG12/4FX CH1 - CH4, MG16/4FX CH1 - CH4.
¹³⁾ Phone Jack (TRS) are balanced (1 HOT, 0 COLD, 2 SHIELD).

MG12/4FX INPUT CHARACTERISTICS

Connection	Gain Trim	Actual Load Impedance	For Use With Nominal	Input Level ¹⁾		Connector to Mixer
				Nominal	Max. before Clip	
CH IN MIC (CH 1-4)	-50	3 kΩ	50 - 600 Ω Mics	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 type ²⁾
CH IN LINE (CH 1-4)	-34	10 kΩ	600 Ω Lines	-34 dBu (15.5 mV)	-14 dBu (155 mV)	Phone Jack (TRS) ³⁾
ST CH MIC IN (CH 5 - 6, 7 - 8)	-50	3 kΩ	50 - 600 Ω Mics	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 type ²⁾
ST CH LINE IN (CH 5 - 6, 7 - 8)	-34	10 kΩ	600 Ω Lines	-34 dBu (15.5 mV)	-14 dBu (155 mV)	Phone Jack ⁴⁾
ST CH INPUT (CH 9 - 10, 11 - 12)	-50	10 kΩ	600 Ω Lines	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	Phone Jack ⁴⁾
CH INSERT IN (1-8)	-10	10 kΩ	600 Ω Lines	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁵⁾
RETURN (L,R)	-10	10 kΩ	600 Ω Lines	+4 dBu (1.23 V)	+24 dBu (12.3 V)	Phone Jack ⁶⁾
2TR IN (L,R)	-10	10 kΩ	600 Ω Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack

MG12/4FX OUTPUT CHARACTERISTICS

Connection	Actual Source Impedance	For Use With Nominal	Output Level ¹⁾		Connector to Mixer
			Nominal	Max. before Clip	
ST OUT (L,R)	150 Ω	600 Ω Lines	+4 dBu (1.23 V)	+24 dBu (12.3 V)	XLR-3-32 type ¹⁰⁾
GROUP OUT (1, 2)	150 Ω	10 kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
AUX SEND (1, 2)	150 Ω	10 kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
EFFECT SEND	150 Ω	10 kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
CH INSERT OUT (CH 1-8)	150 Ω	10 kΩ Lines	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁵⁾
REC OUT (L,R)	600 Ω	10 kΩ Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack
C-R OUT (L,R)	150 Ω	10 kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
PHONES	100 Ω	40 Ω Phones	3 mW	75 mW	Stereo Phones Jack

MG16/6FX INPUT CHARACTERISTICS

Connection	Gain Trim	Actual Load Impedance	For Use With Nominal	Input Level ¹⁾		Connector to Mixer
				Nominal	Max. before Clip	
CH IN MIC (CH 1-6)	-50	3 kΩ	50 - 600 Ω Mics	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 type ²⁾
CH IN LINE (CH 1-6)	-34	10 kΩ	600 Ω Lines	-34 dBu (15.5 mV)	-14 dBu (155 mV)	Phone Jack (TRS) ³⁾
ST CH MIC IN ⁷⁾	-50	3 kΩ	50 - 600 Ω Mics	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 type ²⁾
ST CH LINE IN ⁷⁾	-34	10 kΩ	600 Ω Lines	-34 dBu (15.5 mV)	-14 dBu (155 mV)	Phone Jack ⁴⁾
ST CH INPUT ⁸⁾	-50	10 kΩ	600 Ω Lines	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	Phone Jack ⁴⁾
CH INSERT IN (1-6)	-10	10 kΩ	600 Ω Lines	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁵⁾
AUX RETURN (L,R)	-10	10 kΩ	600 Ω Lines	+4 dBu (1.23 V)	+24 dBu (12.3 V)	Phone Jack ⁶⁾
2TR IN (L,R)	-10	10 kΩ	600 Ω Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack

MG16/6FX OUTPUT CHARACTERISTICS

Connection	Actual Source Impedance	For Use With Nominal	Output Level ¹⁾		Connector to Mixer
			Nominal	Max. before Clip	
ST OUT (L,R)	150 Ω	600 Ω Lines	+4 dBu (1.23 V)	+24 dBu (12.3 V)	XLR-3-32 type ¹⁰⁾
GROUP OUT (1-4)	150 Ω	10 kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
AUX SEND (1, 2)	150 Ω	10 kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
EFFECT SEND	150 Ω	10 kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
CH INSERT OUT (CH 1-6)	150 Ω	10 kΩ Lines	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁵⁾
REC OUT (L,R)	600 Ω	10 kΩ Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack
C-R OUT (L,R)	150 Ω	10 kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
PHONES OUT	100 Ω	40 Ω Phones	3 mW	75 mW	Stereo Phones Jack

MG24/14FX, MG32/14FX INPUT CHARACTERISTICS

Connection	PAD	Gain Trim	Actual Load Impedance	For Use With Nominal	Input Level ¹⁾		Connector to Mixer
					Nominal	Max. before Clip	
CH INPUT (A,B) ¹⁾	-30	-50	3 kΩ	50 - 600 Ω Mics	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 type ²⁾
	-20	-10			-10 dBu (1.23 V)	+4 dBu (1.23 V)	A, B Phone Jack (TRS) ¹⁰⁾
	-10	-10			-10 dBu (1.23 V)	+4 dBu (1.23 V)	B Phone Jack (TRS) ¹⁰⁾
	-20	-10			-10 dBu (1.23 V)	+4 dBu (1.23 V)	B Phone Jack (TRS) ¹⁰⁾
ST CH INPUT ³⁾		-10	10 kΩ	600 Ω Lines	-10 dBu (1.23 V)	+4 dBu (1.23 V)	RCA Pin Jack ⁴⁾
CH INSERT IN ⁵⁾		-10	10 kΩ	600 Ω Lines	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁵⁾
GROUP INSERT IN (1-4)		-10	10 kΩ	600 Ω Lines	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁵⁾
SUB IN (1, 2) (L,R)		-10	10 kΩ	600 Ω Lines	+4 dBu (1.23 V)	+24 dBu (12.3 V)	Phone Jack ⁶⁾
TB IN		-10	10 kΩ	600 Ω Mics	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 type ²⁾
2TR IN (L,R)		-10	10 kΩ	600 Ω Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack

MG24/14FX, MG32/14FX OUTPUT CHARACTERISTICS

Connection	Actual Source Impedance	For Use With Nominal	Output Level ¹⁾		Connector to Mixer
			Nominal	Max. before Clip	
ST OUT (L,R)	150 Ω	600 Ω Lines	+4 dBu (1.23 V)	+24 dBu (12.3 V)	XLR-3-32 type ¹⁰⁾
MONO OUT	150 Ω	600 Ω Lines	+4 dBu (1.23 V)	+24 dBu (12.3 V)	Phone Jack (TRS) ⁶⁾
GROUP OUT (1-4)	150 Ω	600 Ω Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
AUX OUT (1-6)	150 Ω	600 Ω Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
CH INSERT OUT (1-4)	150 Ω	10 kΩ Lines	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁵⁾
REC OUT (L,R)	600 Ω	10 kΩ Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack
C-R OUT (L,R)	150 Ω	10 kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack (TRS) ⁶⁾
PHONES OUT	100 Ω	40 Ω Phones	3 mW	75 mW	Stereo Phones Jack

¹⁾ In these specifications, when dB represents a specific voltage, 0 dB is referenced to 0.775 Vrms.
²⁾ All gain connections are balanced.
³⁾ CH INPUT (TRS) and CH INPUT (TRS) are balanced (1 HOT, 0 COLD, 2 SHIELD).
⁴⁾ Phone Jack (TRS) is balanced.
⁵⁾ Phone Jack (TRS) is unbalanced (1 OUT, 0 IN, 2 SHIELD).
⁶⁾ Phone Jack (TRS) is balanced (1 HOT, 0 COLD, 2 SHIELD).
⁷⁾ MG24/14FX CH1 - CH4, MG32/14FX CH1 - CH4, MG24/14FX CH5 - CH8, MG32/14FX CH5 - CH8.
⁸⁾ MG24/14FX CH9 - CH12, MG32/14FX CH9 - CH12, MG24/14FX CH13 - CH16, MG32/14FX CH13 - CH16.
⁹⁾ MG24/14FX CH17 - CH20, MG32/14FX CH17 - CH20, MG24/14FX CH21 - CH24, MG32/14FX CH21 - CH24.
¹⁰⁾ XLR-3-32 type is balanced (1 HOT, 0 COLD, 2 SHIELD).
¹¹⁾ In XLR Pin sockets is unbalanced.
¹²⁾ MG24/14FX CH1 - CH4, MG32/14FX CH1 - CH4.
¹³⁾ Phone Jack (TRS) are balanced (1 HOT, 0 COLD, 2 SHIELD).

MG10/2 Block Diagram

