

# Digital Heart. Analog Soul.

It has been 40 years since the release of Yamaha's first professional analog mixing console in 1972, the PM200. This year also marks the 25th anniversary of the landmark release of our first ever digital mixer, the DMP7. It is no mere coincidence that, during this momentous occasion, we are introducing a ground-breaking new product that represents a new paradigm for compact professional mixing consoles: the MGP Series.

Drawing from our decades of experience crafting innovative, premium analog gear, we originally developed our new discrete Class-A microphone preamps for professional use in our high-end recording equipment. Utilizing an inverted Darlington circuit design, our newly-refined D-PRE mic preamps deliver a fat, rich, smooth tone that gives the MGP Series a significant advantage over any other mixer in its class.

With Yamaha's proprietary X-pressive EQ we've managed to capture ultimate analog authenticity by unlocking the mysterious secret behind the expressive sound shaping capabilities of sought-after classic EQ modules.

At the heart of the MGP's compact configuration, we've taken an innovative new approach to the utilization of digital technology in an analog mixer; adding high-resolution effects, iPod/iPhone integration and the superb functionality of our new Stereo Hybrid Channel to the warmth and musicality of premium analog sound. The MGP Series represents the ultimate balance of the converging technologies that are the heart and soul of Yamaha's extraordinary achievements in professional audio.



MIXING CONSOLE

MGP Series



MGSeries

MG102C MG124C MG166C MG206C MG82CX MG124CX MG166CX MG166C-USB MG166CX-USB MG206C-USB MG24/14FX MG32/14FX

# The Evolution of Analog

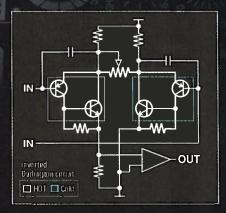
When it comes to audio engineering and sound reinforcement, the verdict is in—nothing beats the warmth and musicality of analog sound. By incorporating state-of-the-art digital technologies into the development process of our premium professional analog equipment, the MGP is the next step in the evolution of compact professional mixers.

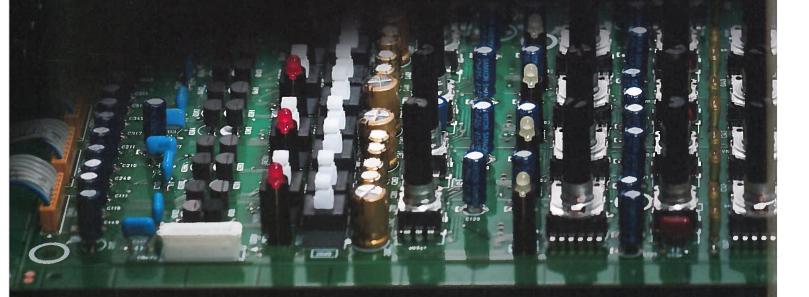
# D-PRE D-PRE. Defies. Description



The preamp is where sound creation begins, and ultimately determines the character and quality of your overall mix. The importance of this critical first step inspired us to develop the most fat and warm sounding preamps possible—our newly refined D-PRE mic preamps. Initially intended for use with Yamaha's high-end recording gear, these studio-grade, discrete Class-A mic

preamps employ an inverted Darlington circuit design that features multiple circuitry elements in a multi-layered configuration in order to deliver more power with lower impedance. This means all the character, depth and feel of your original signal will be delivered with fat, natural sounding bass and smooth, soaring highs. Rediscover a favourite mic or trusted instrument by capturing the full range of your musical expression with sound that you don't hear, so much as feel. With 48V phantom power for each channel and a sound that is incomparable in a compact mixer today, these studio-grade discrete Class-A mic preamps set the MGP apart, clearly defining a class all its own.







### 1-Knob Compressors

Originally a Yamaha innovation, 1-knob compression is now a popular feature on an increasing number of compact mixing consoles with good reason. These intelligent compressors add optimally set compression to a wide variety of input sources with the touch of a single control—minus the hassle of setting up and configuring complex outboard gear. The MGP features our newly upgraded 1-knob compressors that feature LED indicators allowing you to visually monitor when the compression "kicks in" on each channel.













### Metal Chassis

Durability is simply not an issue with the MGP. With a rugged, impact-resistant, powder-coated steel chassis, the MGP is more than ready for the rigours of road abuse. The sleek design of the chassis is contoured for optimal convection cooling, further extending the lifetime of the components inside, while the internal layout separates the power supply from the analog circuitry for superior noise reduction. What's more, knob control placement above the surface of the chassis ensures that any impact or pressure on the knobs will be absorbed by the chassis and not the circuit board or potentiometers underneath.

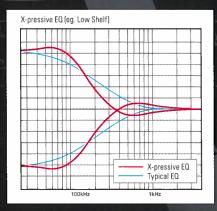


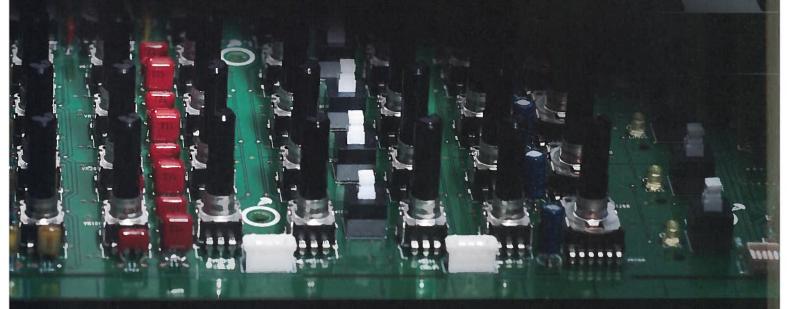
# X-pressive EQ X Marks the Spe

**∑**@EQ

Everyone knows vintage EQ sounds great—but not everyone knows why. Throughout the development of the innovative VCM (Virtual Circuit Modeling) effects used in our high-end professional digital mixers, we became increasingly focused on reproducing the warmth and musicality of classic vintage EQs. It was through our precise modeling of the original

circuitry of some of the most sought-after EQ modules from the past that we discovered a characteristic "X-shape" of the frequency curves that was unique to these units— and would ultimately prove essential to unlocking real vintage authenticity. More than just a means of tweaking your mix, the precise response and very steep shelving of the high and low frequencies make the X-pressive EQ a powerful sound-shaping tool that essentially redefines the role that EQ plays in sound reinforcement. Never before has an audio engineer's contribution to the overall sound been so significant, with X-pressive EQ providing complete control of every aspect of your sonic palette.







### Integrated Rack Ears



With integrated rack ears, the MGP easily meets the demands of both installed and portable applications providing safe, stable protection for your console. Extremely durable, their sleek, attractive design instantly gives you the option of a rack-mounted or desk-top configuration, with hassle-free setup saving you time and effort.



### Internal Universal Power Supply



You can plug in with confidence in any region with 100V-240V power thanks to our highly efficient internal universal power supply. With its multi-voltage design, the MGP ensures worry-free operation in potentially damaging environments with fluctuating power levels. An Internal power supply also simplifies rack mounting of the console at installed applications, with no use for a bulky adapter or additional connections.

### MIXING CONSOLE MGP16X

# A Revolution in Digital

The MGP is the realization of a new approach towards the utilization of digital technologies in a mixer, offering simple, analog-style control of sophisticated DSP functions. One of the most compelling features of analog gear is the direct, hands-on, intuitive operation that unites the operator with the console. The MGP sought to keep this feel consistent throughout the design to offer a wealth of functionality, yet with a simple, familiar touch.

# TO CHIS/16 TO 2TR IN ASSIGN - ANALOG 1 / USB 1



### More Than Just Digital... it's Hybrid.

# Hybrid Channel

40 years of experience working with professional mixers has led Yamaha to offer a new way of approaching sound reinforcement in the digital age: the Stereo Hybrid Channel. Beneath the analog-style knobs and encoders of MGP Series mixing consoles lies a sophisticated digital control system—a fusion that combines traditional analog feel with the functionality that only digital technology can offer. The MGP Series utilizes a powerful, proprietary DSP to provide three essential features that are staples of both installed and live sound applications. In keeping with the theme of analog simplicity found throughout the MGP Series design, each of these functions is readily accessible and available at the touch of a button. Featuring a mid-sweep, three-band EQ for nuanced sound control and high-performance onboard A/D and D/A converters, the Stereo Hybrid Channel offers unique functionality with superior sound.

Hybrid



### Priority Ducker >>>

An invaluable feature for applications that require both public-speaking and background music, Priority Ducker allows a microphone to take priority over another sound source automatically, just by speaking into the mic. Stop talking and the other sound source is brought back to its original level, therefore no console operator is required for this simple yet valuable function. You can even adjust the ducker attenuation of sound source depending on your preferences.

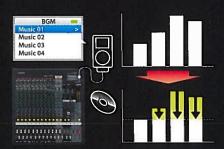






### Leveler >>>

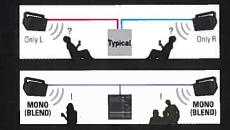
This intelligent compressor "auto levels" different tracks from a sound source that vary in volume, providing a more pleasurable listening experience, Ideal for small events with un-manned operation of your console, Yamaha's proprietary DSP algorithm allows for extended play time without the worry of fluctuating volume levels distracting your listeners.





### Stereo Image >>>

The Stereo Image function seamlessly narrows the pan balance of the stereo sound source so that audiences spread over a wide area can enjoy a comfortably blended mix. This is particularly helpful for installed sound applications that requires background music. Using either of the two optimized settings—MONO and BLEND— Stereo Image ensures that everyone is in the "sweet spot" by providing a more optimally mixed sound to the entire space.



### Advanced REV X and Classic SPX

# ual Digital Effects

MGP Series mixing consoles offer two separate studio-grade effects processors for ultimate enhancement of your sound, with simple intuitive control. Yamaha's high-end REV-X reverb offers three very musical and natural high-resolution reverb effects: Hall, Room and Plate—a first for any Yamaha analog mixer. For more sound-shaping possibilities, Yamaha's renowned SPX digital multi-effect processor provides a useful selection of 16 advanced digital effects with editable parameters. Both processors can be used simultaneously, giving you a vast array of tools to colour your sound.



Integrate Your Apple Devices into Your MGP Sound Experience

# Digital Connectivity for Your iPod/iPhone

In response to the growing demand for compatibility with iDevices, iPod/iPhone integration with the MGP offers much more than simple playback. With a single connection your Apple device is transformed into a flexible controller, giving you more detailed control of your MGP console.



MGP Editor >>>

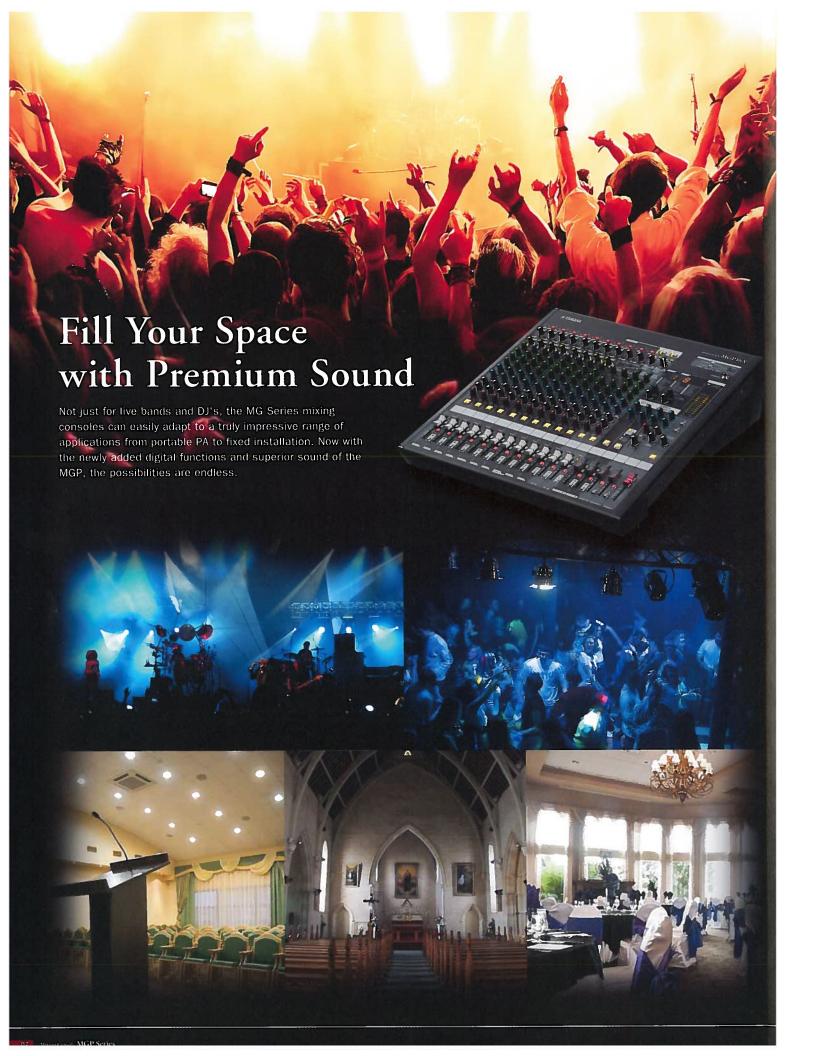
MGP Editor is a free software application that gives you additional control of your console's DSP settings via your iPod/iPhone. With a simple and intuitive graphic display, MGP Editor gives you additional, detailed control of your REV-X and SPX effects parameters—as well as Hybrid Channel's Priority Ducker, Leveler and iPod/iPhone's playback settings.

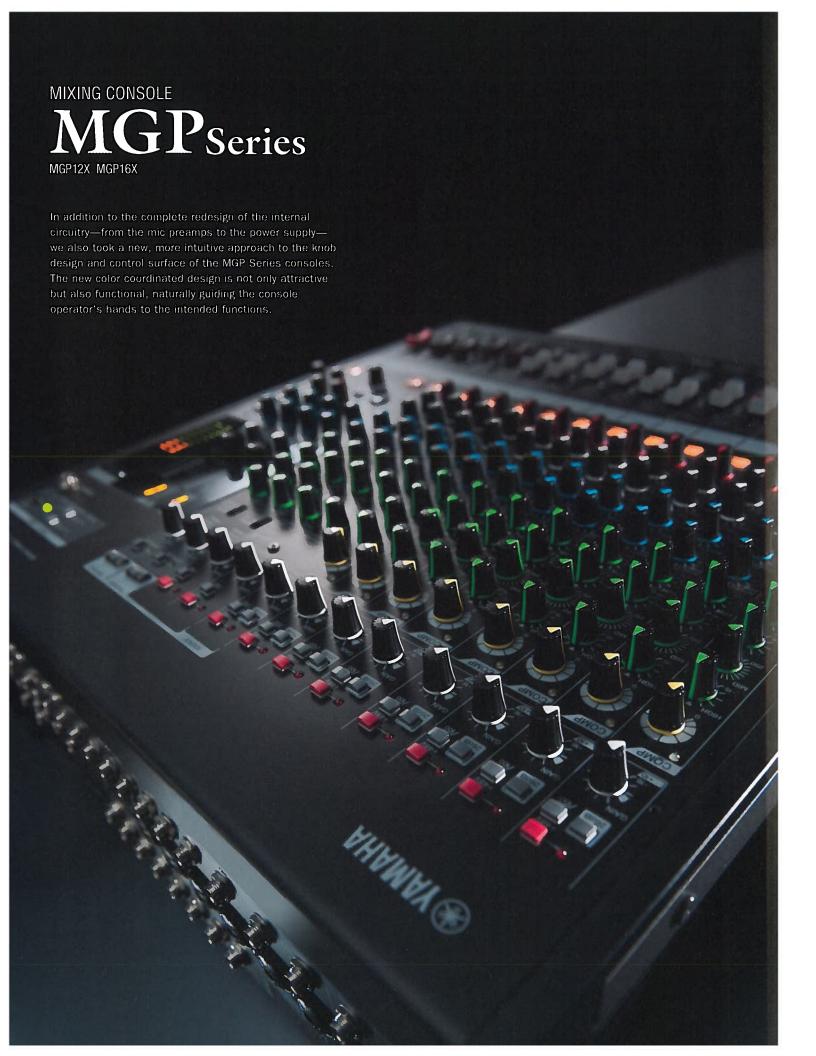


High-Quality Digital Playback >>>

The MGP Series mixers feature a built-in USB port to connect and charge your iPod or iPhone for seamless playback with a single connection. A direct digital connection offers a much higher level of quality with more detail and clarity than typical analog inputs can provide.



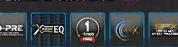




# MGP Series

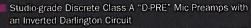
From the preamps, EQ and effects to the Hybrid Channel functions and iPod/iPhone connectivity—every aspect, every feature, every sound, establishes the MGP as a premium mixing console in a class of its own.

### Main Features









- Musical X-pressive EQ based on Yamaha's famed VCM Technology
- Professional 1-knob Compressors with LED Indicators
- High-grade Dual Digital Effects Processors:
- Advanced REV-X and Classic SPX
- Stereo Hybrid Channels utilizing a Powerful, Proprietary DSP
- Digital Connectivity for iPod/iPhone
- MGP Editor for Detailed Control of the Console's
- DSP settings via iPod/iPhone
- Rugged, Impact-resistant, Powder-coated Metal Chassis
- Integrated Rack-ears for Easy Rack Mounting
- Internal Universal Power Supply for World-wide Use



# ON

Hybrid Channel (MGP127 9 10,17) 12 1/GP16X 13/14 15/16

FX1 RTN FX2 RTN GROUP1-2 GROUP3-4 STEREO

- 6 Mic Inputs with 48V Phantom Power and HPF per Channel
- 12 Line Inputs (4 mono and 4 stereo)
- Additional 2TR Inputs Provided to Accept the Output from Analog Devices or iPod/iPhone
- 2 AUX Sends + 2 FX Sends
- 4 GROUP Buses + ST Bus

### Rear Panel

MGP12X



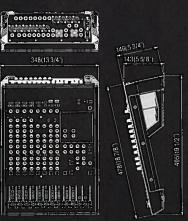
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ON



ON

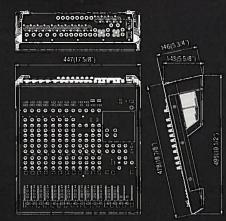




## MGP16X

16-Channel Premium Mixing Console

- 10 Mic Inputs with 48V Phantom Power and HPF per Channel
- 16 Line Inputs (8 mono and 4 stereo)
- Additional 2TR Inputs Provided to Accept the Output from Analog Devices or iPod/iPhone
- 2 AUX Sends + 2 FX Sends
- 4 GROUP Buses + ST Bus









# MGSeries

MG102C MG124C MG166C MG206C MG82CX MG124CX MG166CX MG166C-USB MG166CX-USB MG206C-USB MG24/14FX MG32/14FX





Whether you have a mixing application that involves only a few channels, or up to 32 inputs with a need for flexible signal routing, Yamaha's MG Series offers a console that will give you the capacity, control, and performance you deserve. All models are remarkably compact and lightweight for superior handling and portability, but absolutely no compromises have been made in terms of features, performance, or durability.





### High-Performance Mic Preamps with Phantom Power



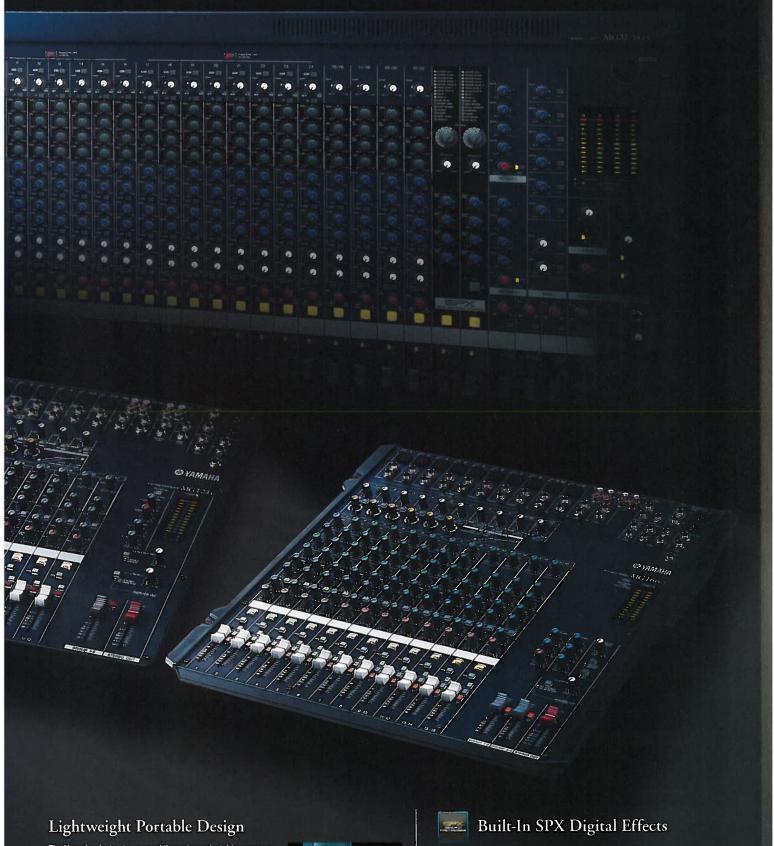
The mic preamps built into the MG Series mixers inherit technology from Yamaha's high-end professional consoles and are designed to deliver superior sonic performance. All mic preamps also feature switchable 48V phantom power so you can take advantage of the natural extended response of high-quality condenser microphones.



### 1-Knob Compressors



Yamaha was the first to implement this innovative technology into small format mixers offering a simple and instantaneous advantage in achieving great sound on each individual track. Conventional compressors tend to be quite complex and can require significant expertise and time to use effectively, but our 1-knob compressors are optimally set to add flexibility to your sound with a single control. It has since become a standard feature on an increasing number of other manufactures' consoles. One listen however and it becomes abundantly clear that no one else has actually perfected it as we have.



The Yamaha design team went through a painstaking process of detailed material and structural analysis, and extensive testing to ensure that each model of the MG series matched its exceptional performance with superior manageability. The smaller models are lightweight and portable enough to pop into a briefcase or backpack, while the larger models easily fit under your arm making it no trouble at all to transport. The MG Series may be lightweight but their performance is anything but.



There's a tremendous amount of signal processing power packed into the compact chassis of the MG Series CX/FX mixers. They incorporate a versatile digital effect processor that provides a range of reverb, delay, modulation, and distortion effects that you can use to color and refine your sound. Each of the 16 effect programs has a number of editable parameters as well as effect on/off switching capability and return level control.

# MG82cx



Extraordinary sonic quality plus digital effects in a smallbut-powerful utility mixer.

MIXING CONSOLE

# MG102c



Extraordinary sonic quality plus channel compressors in a small-but-powerful utility mixer.



### Feature >>>

- 4 Mic Inputs with Switchable 48V 1 Stereo Out Phantom Power
- 8 Line Inputs (2 mono and 3 stereo)
- 2 I/O Insert
- 1 FX Send
- 2 Compressors
- SPX Digital Multi Effect



### Feature >>>



- 4 Mic Inputs with Switchable 48V Phantom Power
- 10 Line Inputs (2 mono and 4 stereo)
- 1 AUX Send

1 Stereo Out

- 2 Compressors
- 2 I/O Insert

Dimensions

MG82cx / MG102c

# 256 6[10 1/8]

Option

BMS-10A Mic Stand Adapter





Both the MG82CX and MG102C can be mounted on a microphone stand for optimal positioning and easy access using the optional BMS-10A Mic Stand Adaptor. This can be particularly handy when using one of them as a sub-mixer for drums or as a cue box in recording situations.

# MG124cx



A versatile all-in-one console that can handle up to 12 inputs with internal effects.



### Feature ---

- 6 Mic Inputs with Switchable 48V Phantom Power
- 12 Line Inputs (4 mono and 4 stereo)
- 4 I/O Insert
- 1 Stereo Out
- 1 AUX Send + 1 FX Send
- 2 Group Out
- 4 Compressors
- SPX Digital Multi Effect

### MIXING CONSOLE

# MG124c



Stunning MG Series sound plus and extra margin of inputs and signal-routing capacity.

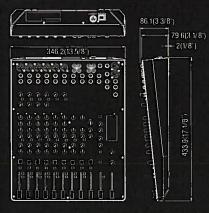


### Feature ---

- 6 Mic Inputs with Switchable 48V Phantom Power
- 12 Line Inputs (4 mono and 4 stereo)
- 4 I/O Insert
- 1 Stereo Out
- 2 AUX Sends
- 2 Group Out
- 4 Compressors

Dimensions

MG124cx / MG124c



Option

RK-MG102 Rack Mount Kit



RK-MG124



The MG102C, MG82CX, MG124C and MG124CX can be rack-mounted using an optional rack-mounting kit for optimum integration with any system or installation.

# MG166 cx



16 channels, 6 buses, and all the outstanding SPX digital effects you'll need built in.



MIXING CONSOLE



### MG166c

A 6-bus format offers extra options for monitoring.

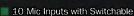


### Feature >>>



- 10 Mic Inputs with Switchable
- 48V Phantom Power 16 Line Inputs
- (8 mono and 4 stereo) 8 I/O Insert
- 1 Stereo Out
- 3 AUX Sends
- 4 Group Out
- 6 Compressors
- Rack Mountable

### Feature >>>



48V Phantom Power

16 Line Inputs

(8 mono and 4 stereo)

8 I/O Insert

1 Stereo Out

2 AUX Sends + 1 FX send

4 Group Out

6 Compressors

SPX Digital Multi Effect

Rack Mountable

Dimensions

MG166cx / MG166c / MG166cx-usb / MG166c-usb MG206c / MG206c-usB



### **CUBASE AI**



With Cubase, Steinberg has essentially redefined music production software in their pursuit to provide users with the most advanced, comprehensive DAW software available. The MG series comes with the latest version of Cubase AI to give you a flexible, intuitive platform to realize your full creative potential. With Cubase Al you get a stripped-down version of the Steinberg Cubase advanced music production system, using the same core technologies and interface that have won this series worldwide acclaim. Together with the MG series, both MAC and Win-

dows PC users will have access to a full system solution with all the tools they need for composing, recording, editing and mixing studio-quality music whether you're in the studio or not.



### MG166cx-usb

Harness the power of Cubase AI as well as an outstanding selection of SPX digital effects.



10 Mic Inputs with Switchable

(8 mono and 4 stereo)

2 AUX Sends + 1 FX Send

48V Phantom Power

16 Line Inputs

### Feature >>>

- 10 Mic Inputs with Switchable
- 48V Phantom Power
- 16 Line Inputs (8 mono and 4 stereo)
- 8 I/O Insert
- 1 Stereo Out
- 3 AUX Sends + 1 FX Send
- 4 Group Out
- 1 USB I/O
- 6 Compressors
- Rack Mountable **CUBASE AI**
- SPX Digital Multi Effect Rack Mountable

**CUBASE AI** 

Feature >>>

MIXING CONSOLE



### MG166c-usb

Direct digital recording capability with the supplied Cubase AI software.



### MIXING CONSOLE



### MG206c

Extended capacity, versatility and control for stage with 16 microphone inputs.



### MIXING CONSOLE



### MG206c-USB

Advanced digital live recording capacity and capability



### Feature ----

- 16 Mic Inputs with Switchable
- 48V Phantom Power
- 20 Line Inputs (12 mono and 4 stereo)
- 12 I/O Insert
- 4 AUX Sends
- 4 Group Out
- 8 Compressors
- Rack Mountable

### Feature >>>



- 16 Mic Inputs with Switchable 48V Phantom Power
- 20 Line Inputs
- (12 mono and 4 stereo)
- 12 I/O Insert
- 1 Stereo Out
- 4 AUX Sends
- 4 Group Out
- 1 USB I/O
- 8 Compressors Rack Mountable
- CUBASE AI

6 Compressors

4 Group Out

1 USB I/O

### Built-in SPX Digital Effects

There's an astonishing amount of signal processing power packed into the compact chassis of the MG "CX" mixers. They incorporate a versatile digital multi-effect processor that provides a range of reverb, delay, modulation, and distortion programs you can use to refine and define your sound. Each of the 16 effect programs has a number of editable parameters as well as effect on/off switching capability and return level control. You can even blend the effects into the aux sends for "wet" monitoring, so the performers can hear the effects too. If you need to keep both hands free to play an instrument or perform other operations, an optional footswitch can be connected to the mixer's effect footswitch jack for convenient on/off switching.

No.	Program	Parameter	No.	Program	Parameter
1	REVERB HALL 1	REVERB TIME	9	KARAOKE ECHO	DELAY TIME
2	REVERB HALL 2	REVERB TIME	10	VOCAL ECHO	DELAY TIME
3	REVERB ROOM 1	REVERB TIME	11	CHORUS 1	LFO Frequency
4	REVERB ROOM 2	REVERB TIME	12	CHORUS 2	LFO Frequency
5	REVERB STAGE 1	REVERB TIME	13	FLANGER	LFO Frequency
6	REVERB STAGE2	REVERB TIME	14	PHASER	LFO Frequency
7	REVERB PLATE	REVERB TIME	15	AUTO WAH	LFO Frequency
8	DRUM AMBIENCE	REVERB TIME	16	DISTORTION	DRIVE

### Serious Capacity for Live Sound & Installations

MIXING CONSOLE

# MG24/14 fx



### Feature >>>

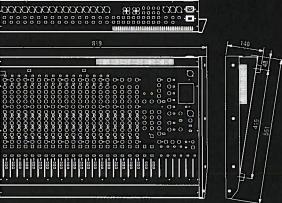
- 16 Mic Inputs with Switchable 6 AUX Sends 48V Phantom Power
- 24 Line Inputs
  - (16 mono and 4 stereo)
- 16 I/O Insert
- (4 AUX sends + 2FX sends)
- 4 Group Out
- 1 Mono Out
- 1 Stereo Out
- 2 SPX Digital Multi Effect



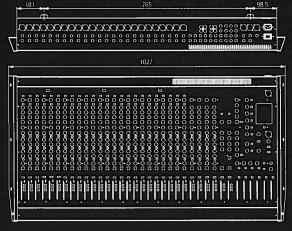


Dimensions

MG24/14FX



MG32/14FX





# MG32/14 fx



### Feature >>>

- 24 Mic Inputs with Switchable48V Phantom Power
- 32 Line Inputs
  - (24 mono and 4 stereo)
- 24 I/O Insert
- 6 AUX Sends
  - (4 AUX sends + 2FX sends)
- 4 Group Out
- 1 Mono Out
  - 1 Stereo Or
- 2 SPX Digital Multi Effect







### **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 buses, 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.

	EFFI	CT 1		EF	FECT 2				
No.	Program	Parameter	No.	Program	Parameter				
1	REVERB HALL	Reverb time							
2	REVERB ROOM	Reverb time	11						
3	REVERB PLATE	Reverb time							
4	REVERB VOCAL	Reverb time							
5	REVERB VOCAL 2	Reverb time	14.70						
6	VOCAL ECHO	Delay time							
7	VOCAL ECHO 2	Delay time	Delay time						
8	DELAY	Delay time							
9	DELAY 2	Delay time							
10	MOD. DELAY	Delay time	10	EARLY REF.	Room size				
11	REVERB	Room size	11	GATE REVERB	Room size				
12	PITCH	Pitch	12	VOCAL	Pitch fine				
13	CHORUS	Depth	13	SYMPHONIC	Depth				
14	PHASER	Modulation frequency	14	FLANGE	Modulation frequency				
15	RADIO VOICE	Drive	15	DISTORTION	Drive				
16	TREMOLO	Modulation frequency	16	TAP DELAY	Feedback gain / Delay time				

# MGP & MG Series Specifications

General Specifications ==

		MGP12X	MGP16X	MG82CX	MG102C	MG124CX	MG124C	MG166CX		
Total Harmonic Distor OHz-20kHz@ +14dBu	tion	0.02%		Less than 0.1 %						
		+0.5/-1.0dB		+1/-3db						
requency Response		20Hz - 20kHz, refer to the	nominal output level @1kHz	20 Hz – 20 kHz @ +4 dBu (	D Hz – 20 kHz @ +4 dBu (ST OUT)					
	$\neg$	-128 dBu Equivalent Input I	Voise/	-128dBu Equivalent Input N	oise/	-128dBu Equivalent Input No	-128dBu Equivalent Input Noise/			
		-102 dBu Residual Output N	loise	-100dBu Residual Output N	oise	-98dBu Residual Output Noise				
	- 1	20 Hz - 20 kHz		20Hz – 20kHz		20Hz – 20kHz				
Voise		$Rs = 150\Omega$		$Rs = 150\Omega$		$Rs = 150\Omega$				
	- 1	Input Gain = Maximum		Input Gain = Maximum		Input Gain = Maximum				
		input dani – maximum				,				
		MIC: 6	MIC: 10	MIC; 4	MIC: 4	MIC: 6		MIC: 10		
			LINE: 8 mono + 4 stereo	LINE: 2 mono + 3 stereo	LINE: 2 mono + 3 stereo	LINE: 4 mono + 4 stereo		LINE: 8 mono + 4 stereo		
	- 1	LINE: 4 mono + 4 stereo			CH INSERT IN: 2	CH INSERT IN: 4				
NPUT Connectors	l	CH INSERT IN: 4	CH INSERT: 8	CH INSERT IN: 2				CH INSERT IN: 8		
	- 1	RETURN: 1 stereo	RETURN: 1 stereo	RETURN: 1 stereo	RETURN: 1 stereo	RETURN: 1 stereo		RETURN: 1 stereo		
	- 1	_	-			-		-		
******		2TR IN: 1 stereo	2TR IN: 1 stereo	2TR IN: 1stereo	2TR IN: 1stereo	2TR IN: 1		2TR IN: 1		
		STEREO OUT: 1	STEREO OUT: 1	STEREO OUT: 1	STEREO OUT: 1	STEREO OUT: 2	STEREO OUT: 2	STEREO OUT: 2		
	- 1	AUX SEND: 2	AUX SEND: 2	_	AUX SEND: 1	AUX SEND: 1	AUX SEND: 2	AUX SEND: 2		
		_	**	EFFECT SEND: 1	-	EFFECT SEND: 1	-	EFFECT SEND: 1		
	ļ	CH INSERT OUT: 4	CH INSERT OUT: 8	CH INSERT OUT: 2	CH INSERT OUT: 2	CH INSERT OUT: 4	CH INSERT OUT: 4	CH INSERT OUT: 8		
		REC OUT: 1	REC OUT: 1	REC OUT: 1	REC OUT: 1	REC OUT: 1	REC OUT: 1	REC OUT: 1		
OUTPUT Connectors		MONITOR OUT: 1	MONITOR OUT: 1	MONITOR OUT: 1	MONITOR OUT: 1	MONITOR OUT: 1	MONITOR OUT: 1	MONITOR OUT: 1		
	1	GROUP OUT: 4	GROUP OUT: 4	_	_	GROUP: 2	GROUP: 2	GROUP: 4		
		_	_	_	_	_	_			
		_		_			_			
		DUDNES 4	PHONES 4	Dharas 4	Dhana, 1	Phone: 1	Phone: 1	Phone: 1		
PHONES: 1 PHOI		PHONES: 1	Phone: 1	Phone: 1	Priorie: 1	PHONE, I	Trione. I			
Crosstalk		-74dB @ 1kHz		-70dB @ 1kHz						
Phantom Power		48V phantom power per ch	nannel	Switchable 48V phantom p	ower					
W-2 - 20 - 1 M -		MIC INPUT		CH1-2 and CH 3/4-5/6		CH1-4, CH 5/6-7/8		CH1-8, CH9/10-11/12		
Input HPF	ut HPE			80Hz 12dB/oct		80Hz 12dB/oct		80Hz 12dB/oct		
	100Hz 12dB/oct			10kHz: shelving		10kHz: shelving		10kHz: shelving		
CH EQ (MONO)	High	8kHz: shelving	014 4 0 40 MOD4CV 0114 0 40 400			2.5kHz: peaking		250Hz-5kHz: peaking		
±15 dB (Max.)	Mid	,	CH1-4,9-12 MGP16X: CH1-8,13-16)	2.5kHz: peaking		1		100Hz: shelving		
	Low	125Hz: shelving		100Hz: shelving		100Hz: shelving				
CH EQ (STEREO)	High	8kHz: shelving		10kHz: shelving		10kHz: shelving	10kHz: shelving			
±15 dB (Max.)	Mid	2.5kHz: peaking(MGP12X:	CH5-8 MGP16X: CH9-12)			40011	2.5kHz: peaking			
	Low	125Hz: shelving		100Hz: shelving		100Hz: shelving 100Hz: shelving				
Compressor (COMP)		CH1-4	CH1-8	CH1,2		CH1-4				
Compressor (COMP)		control x 1 (Gain/Threshold	1/Ratio)	control x 1 (Gain/Threshold	/Ratio)	control x 1 (Gain/Threshold				
EVI	REV-X	8 PROGRAM, PARAMETER	nontrol .	16 PROGRAM, PARAMETER control		16 PROGRAM, PARAMETER control	_	16 PROGRAM, PARAMETER cor		
internal	UEA-V	o FRUUNAIVI, FANAIVIETEN	COILLOI	Foot Switch (Digital Effect, on/off)		Foot Switch (Digital Effect, on/off)		Foot Switch (Digital Effect, on		
Digital Effect FX	(2:SPX	16 PROGRAM, PARAMETE	R control			_	_	-		
				2 u 7 nointa I FD moto-		2 x 12 points LED meter				
		2 x 12points LED meter		2 x 7 points LED meter	00.101		0 10 15 00 05	20-10/		
LED Level Meter		l ·	-6, -10, -15, -20, -25, -30dB)	(PEAK, +6, +3, 0, -5, -10,		(PEAK, +10, +6, +3, 0, -3,		-30 <b>0</b> B)		
Pre MONITOR Level		PEAK lights if the signal co		PEAK lights if the signal co		PEAK lights if the signal comes				
		within 3dB of the clipping	level.	within 3dB of the clipping level. within 3dB of the clipping level.						
Cinnal indicator		PEAK indicator (red), SIG is	ndicator (green)	Red LED turns on when po	st EQ (ST CH: or post Mic HA)	)				
Signal Indicator		Peak lights if the signal comes	within 3dB of the clipping level.	signal reaches -3dB below	clipping (17dBu).					
	_									
USB Audio USB IN/O	JT	iPod, iPhone exclusive		-		_		-		
				PA-10: AC 38VCT, 0.62A	.4	PA-20: AC 35VCT, 0.94A				
<b>Power Supply Adapt</b>	er	-		Cable Length = 3.6m		Cable Length = 3.6m		PA-30: AC 35VCT, 1,4/		
Dowar Cupali	_	100-240V 50Hz/60Hz		Supro Longui — Oloiti		300.0 = 311gm = 0.0111				
Power Supply			EEW may	211/4		30W		35W		
Power Consumption		45W max	55W max	21W						
Dimensions (W × H :	( D)	348 x 143 x 495 mm	447 x 143 x 495 mm	256.6 x 62.2 x 302.5 mm	1.51	346.2 x 86.1 x 436.6 mm	Tales	478 x 105 x 496 mm		
Net Weight		7.5kg	9.0kg	1.6kg	1.5kg	3.2kg	3kg	5.5kg		
		-	=	Microphone Stand Adaptor		I	RK-MG124	Foot Switch (FC-5)		
Ontions		E.		(BMS-10A)	(BMS-10A)	RK-MG124				
Options										

G166C	MG166CX-USB	MG166C-USB	MG206C	MG206C-USB	MG24/14FX Less than 0.1% @+14 dBu 20Hz –20kHz, 600Ω (with gain control	MG32/14FX at maximum level)
						00Ω (with gain control at minimum level)
					-99dBu Residual output noise (ST, M -83dBu (87dB S/N) ST, MONO, GROUP M -78dBu (82dB S/N) AUX master control at	flaster fader at nominal level, all Ch assign switches off, nominal level; all channel mix controls at minimum level, er fader and one Ch fader at nominal level.
			MIC: 16 LINE: 12 mono + 4 stereo CH INSERT IN: 12 RETURN: 2 stereo		MIC: 16 LINE: 16 mono + 4 stereo CH INSERT IN: 16 RETURN: 2 stereo	MIC: 24 LINE: 24 mono + 4 stereo CH INSERT IN: 24 RETURN: 2 stereo
STEREO OUT: 2 NUX SEND: 3	STEREO OUT: 2 AUX SEND: 2 EFFECT SEND: 1	STEREO OUT: 2 AUX SEND: 3	2TR IN: 1 STEREO OUT: 2 AUX SENO: 4		2TR IN: 1 STEREO OUT: 1 AUX SEND: 6	2TR IN: 1 STEREO OUT: 1 AUX SENO: 6
CH INSERT OUT: 8 REC OUT: 1 MONITOR OUT: 1 GROUP: 4	CH INSERT OUT: 8 REC OUT: 1 MONITOR OUT: 1 GROUP: 4	CH INSERT OUT: 8 REC OUT: 1 MONITOR OUT: 1 GROUP: 4 -	CH INSERT OUT: 12 REC OUT: 1 MONITOR OUT: 1 GROUP: 4		CH INSERT OUT: 16 REC OUT: STEREO 1 STEREO SUB OUT: STEREO 1 GROUP OUT: 4 GROUP INSERT OUT: 4	CH INSERT OUT: 24 REC OUT: STEREO 1 STEREO SUB OUT: STEREO 1 GROUP OUT: 4 GROUP INSERT OUT: 4
- Phone: 1	Phone: 1	Phone: 1	Phone: 1		ST INSERT OUT: 1 Phone: 1	ST INSERT OUT: 1 Phone: 1
					-70dB between input channels -70dB between input/output channels +48V OC supply to balanced inputs. Can be switched ON/OFF in groups of elig	1
			CH1-12, CH 13/14-19/20 80Hz 12dB/oct		MIC INPUT 80Hz 12dB/oct 10kHz: shelving	
V 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4					250Hz-5kHz: peaking 100Hz: shelving 10kHz; shelving	
H 1-6		***************************************	CH 1-8		HI-MIO 3kHz: peaking, LO-MIO 800Hz: 100Hz: shelving	peaking
	16 PROGRAM, PARAMETER control				-	
	Foot Switch (Digital Effect, on/off)	-	2		Effect 1; 16 programs parameter control	ol .
	-	_	-		Effect 2: 16 programs parameter control	
					4 x 12-point LED meters [Stereo (L, R), (PEAK, +5, +3, +1, 0, -1, -3, -5, -7, -1 PEAK lights if the signal comes within 3dB of the clipping level.	
					Mono/Stereo Input Peak Indicator One Comes on when post-EQ signal level re Mono/Stereo Input Signal Indicator One Comes on when post-EQ signal level re	eaches +17dBu. e green LED per channel.
•	Sampling Frequency = 44. or 48kHz (depend on the a		-	Sampling Frequency = 44.1kHz or 48kHz (depend on the application of PC)		
					-	
30W	35W	30W	40W		USA and Canada: 120V AC, 60Hz / Kore 100W	ea; 220V AC, 60Hz / Others: 230V AC, 50Hz
					819 × 140 × 551 mm	1027 × 140 × 551 mm
5.3kg	5.5kg Foot Switch (FC-5)	5.3kg	6.0kg		18.5kg Foot Switch (FC-5)	22 kg

### MGP12X, MGP16X

### ANALOG INPUT CHARACTERISTICS

0	240	CAUN	Actual load	For use with		Input level		Connector	
Connections	PAD	GAIN	impedance	nominal	Sensitivity*2	Nominal	Max. before clip	Connector	
		-60dB		50-600Ω	-80dBu	-60dBu	-40dBu		
MONO CHINPUT	0	-16dB		Mics	-36dBu	-16dBu	+4dBu	Combo Jack*3	
MGP12X 1~4 MGP16X 1~8		-34dB	3kΩ 600Ω Lines	-54dBu	-34dBu	-14dBu	Comporack 3		
	26	+10dB	]	60075 Filles	-10dBu	+10dBu	+30dBu		
		-60dB	21.0	50-600Ω	-80dBu	-60dBu	-40dBu	XLR-3-31 type*4	
STEREO CH INPUT	-	-16dB	- 3kΩ	Mics	-36dBu	-16dBu	-6dBu		
MGP12X:5~8 MGP16X:9-12		-34dB	101.0	600Ω Lines	-54dBu	-34dBu	-14dBu	Phone Jack*6	
	_	+10dB	- 10kΩ	60052 LINES	-10dBu	+10dBu	+30dBu	Phone Jack o	
STEREO CH INPUT	-	-34dB	481.0	0000 Lines	-54dBu	-34d8u	-14dBu	Phone Jack*6	
MGP12X 9-12 MGP16X 13~16		+10dB	10kΩ	600Ω Lines	-10dBu	+10dBu	+30dBu	RCA Pin Jack	
MONO CHINSERT IN MGP12X 1-4 MGP16X 1-8	-	_	10kΩ	600Ω Lines	-20dBu	OdBu	+20dBu	Phone Jack (TRS)*	
RETURN (L, R)			10kΩ	600Ω Lines	-12dBu	+4dBu	+24dBu	Phone Jack*6	
2TR IN (L, R)	-	_	10kΩ	600Ω Lines	-26dBV	-10dBV	+10dBV	RCA Pin Jack	

### ANALOG OUTPUT CHARACTERISTICS

	Actual Source	For Use With	Outpu	t level	Connector
Connections	Impedance	Nominal	Nominal Level	Max before clip	Connector
STEREO OUT (L, R)	75Ω	600Ω Lines	+4dBu	+24dBu	XLR-3-32 type*4 Phone Jack*7
GROUP OUT (1~4)	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone Jack*5
AUX SEND (1, 2)	75Ω	600Ω Lines	+4d8u	+24dBu	XLR-3-32 type*4
FX SENO (1, 2)	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone Jack*7
MONO CHINSERT OUT MGP12X:1~4 MGP16X:1~8	150Ω	10kΩ Lines	OdBu	+20dBu	Phone Jack*7
REC OUT (L, R)	600Ω	10kΩ Lines	-10dBV	+10dBV	RCA Pin Jack
MONITOR OUT (L, R)	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone Jack*5
PHONES	100Ω	40Ω Phones	3mW	75mW	Stereo Phone Jack

### **DIGITAL INPUT CHARACTERISTICS**

Terminal	Format	Connector
USB	iPod, iPhone exclusive	USB A type

### MG82CX, MG102C =

### ANALOG INPUT CHARACTERISTICS

	2401	Actual load	For use with		Input level		0
Connections	GAIN	impedance	nominal	Sensitivity*2	Nominal	Max. before clip	Connector
	-60dB	71.0	50-600Ω	-72dBu	-60dBu	-40dBu	XLR-3-31 type*4
CH IN MIC (1, 2)	-16dB	3kΩ	Mics	-28dBu	-16dBu	+4dBu	ALINES ST Type 4
0	-34dB	- 10kΩ	600Ω Lines	-46dBu	-34dBu	-14dBu	TRS phone jack*5
CH IN LINE (1, 2)	+10dB	10852		- 2dBu	+10dBu	+30dBu	
ST CH MIC IN	-60dB	240	50-600Ω Mics	-72dBu	-60dBu	-40dBu	XLR-3-31 type*4
(3/4, 5/6)	-16dB	- 3kΩ		-28dBu	-16dBu	-6dBu	Act a of type 1
ST CH LINE IN	-34dB	10kΩ	2 600Ω Lines	-46dBu	-34dBu	-14dBu	Phone jack*6
(3/4, 5/6)	+10dB	10822		- 2dBu	+10dBu	+30dBu	
ST CH IN (7/8, 9/10)	-	10kΩ	600Ω Lines	-22dBu	-10dBu	+10dBu	Phone jack*6 RCA pin jack
CHINSERT IN (1, 2)	_	10kΩ	600Ω Lines	-12dBu	0dBu	+20dBu	TRS phone jack*7
RETURN [L,R]	_	10kΩ	600Ω Lines	- 8dBu	+4dBu	+24dBu	Phone jack*6
2TR IN [L,R]	_	10kΩ	600Ω Lines	-22dBV	-10dBV	+10dBV	RCA pin jack

### **ANALOG OUTPUT CHARACTERISTICS**

	Actual Source	For Use With	Outpu	Connector		
Connections	Impedance	Nominal	Nominal Level	Max. before clip	Connector	
STEREO OUT [L,R]	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack*9	
AUX SEND	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack*9	
CH INSERT OUT (1-2)	75Ω	10kΩ Lines	0dBu	+20dBu	Phone jack *7	
REC OUT [L, R]	600Ω	10kΩ Lines	-10dBV	+10dBV	RCA pin jack	
MONITOR OUT [L, R]	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack*9	
PHONES OUT	100Ω	40Ω Phones	3mW	75mW	Stereo phone jack	

### MG124C, MG124CX =

### ANALOG INPUT CHARACTERISTICS

0	0.0101	Actual load	For use with		Input level		Commenter
Connections	GAIN	impedance	nominal	Sensitivity*2	Nominal	Max. before clip	Connector
	-60dB	50-600Ω	-80dBu	-60dBu	-40d8u		
CH IN MIC (1-4)	-16dB	3kΩ	Mics	-36dBu	-16dBu	+4dBu	XLR-3-31 type*4
CH IN LINE (1-4)	-34dB	101.0	C000 Lines	-54dBu	-34dBu	-14dBu	
	+10dB	10kΩ	600Ω Lines	-10dBu	+10dBu	+30dBu	TRS phone jack*5
ST CH MIC IN (5/6,7/8)	-60dB	n.o	50-600Ω	-80dBu	-60dBu	-40dBu	XLR-3-31 type*4
	-16dB	3kΩ	Mics	-36dBu	-16dBu	-6dBu	
ST CH LINE IN	-34dB		600Ω Lines	-54dBu	-34dBu	-14dBu	Phone jack*6
(5/6,7/8)	+10dB	10kΩ	DUUSZ LINES	-10dBu	+10dBu	+30dBu	
ST CH IN (9/10,11/12)	_	10kΩ	600Ω Lines	-30dBu	-10dBu	+10dBu	Phone jack*6 RCA pin jack
CH INSERT IN (1-4)	_	10kΩ	600Ω Lines	-20dBu	0dBu	+20dBu	TRS phone jack*7
RETURN (L,R)	_	10kΩ	600Ω Lines	-12dBu	+4dBu	+24dBu	Phone jack*6
2TR IN ]L,R]	_	10kΩ	600Ω Lines	-26dBV	-10dBV	+10dBV	RCA pin jack

### ANALOG OUTPUT CHARACTERISTICS

	Actual Source	For Use With	Outpu	t level	Connector	
Connections	Impedance	Nominal	Nominal Level	Max. before clip	Connector	
STEREO OUT [L, R]	75.0	600Ω Lines	4.10	+24dBu	XLR 3-32 type*2,	
	75Ω	POO?5 Lines	+4dBu	+24000	Phone jack*4	
GROUP OUT [1, 2]	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack*5	
AUX SENO [1, 2]	150Ω	10kΩ Lines	4.10	+20dBu	Dhara inslitE	
(EFFECT SEND)	19075	10KZZ LIHES	+4dBu	+ZUUDU	Phone jack*5	
CH INSERT OUT (1-4)	75Ω	10kΩ Lines	0dBu	+20dBu	Phone jack*6	
REC OUT JL, RJ	600Ω	10kΩ Lines	-10dBV	+10dBV	RCA pin jack	
MONITOR OUT [L, R]	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack*5	
PHONES OUT	100Ω	40Ω Lines	3mW	75mW	Stereo phone jack	

<sup>\*1</sup> B dBu is referenced to 0.775 Vrms. 0 dBV is referenced to 1 Vrms.

\*2 Sensitivity is the lowest level that will produce an output of 44 dBu (1.23 V), or the nominal output level when the unit is set to maximum level.

(all faders and level controls are at maximum position)

\*3 Combio packs are blanced (1.85leeve.DBD, 2.8Tip.HOT, 3.8Ring=COLD)

\*4 XIR-3-31/32 type connectors are belanced. (1-GND, 2-HOT, 3-COLD)

\*5 Phone Jacks are balanced. (Tip-HOT, Ring=COLD, Sieeve.GND)

<sup>\*6</sup> Phone Jacks are unbalanced
\*7 Phone Jacks are unbalanced (Tip=Out, Ring=In, Sleeve=GND)
\*8 STGH IN 9/10 exists only in MGIOQUE
\*9 BYOUR IN 9/10 Exists only in MGIOQUE
\*10 MG24/14PX. CHI-16, MG32/14PX. CHI-24
\*10 MG24/14PX. CHI-16, MG32/14PX. CHI-24
\*11 MG24/14PX. CHI-16, LVIB, CHI-9 (LVIDQ IR), MG32/14PX. CH25 (LVZ6 IR), CH27 (LVZ8 IR)
\*12 MG24/14PX. CH21 (LVIZ2 (R), CH23 (LVZ4 IR), MG32/14PX. CH29 (LV30 IR), CH31 (LV32 IR)

<sup>\*13</sup> CH INPUT XLR type connectors and Phone Jacks (TRS) are balanced. (T: HOT, R: COLD, S: GND) \*14 TB IN XLR type connector is unbalanced.

### MG166C, MG166CX, MG166C-USB, MG166CX-USB =

### **ANALOG INPUT CHARACTERISTICS**

Connections	CAIN	Actual load	For use with	1000	Input level		
Connections	GAIN	impedance	nominal	Sensitivity*2	Nominal	Max. before clip	Connector
CH IN MIC (1-8)	-60dB	3kΩ	50-600Ω	-80dBu	-60dBu	-40dBu	XLR-3-31 type*4
	-16dB	3K75	Mics	-36dBu	-16dBu	+4dBu	
CH IN LINE (1-8)	-34dB	101-0	600Ω Lines	-54dBu	-34dBu	-14dBu	TRS phone jack*5
	+10dB	- 10kΩ		-10dBu	+10dBu	+30dBu	
ST CH MIC IN	-60dB	21.0	50-600Ω	-80dBu	-60dBu	-40dBu	VI B 0 01 h
(9/10, 11/12)	-16dB	3kΩ	Mics	-36dBu	-16dBu	-6dBu	XLR-3-31 type*4
ST CH LINE IN	-34dB	1010	000011	-54dBu	-34dBu	-14dBu	Phone jack*6
(9/10, 11/12)	+10dB	10kΩ	600Ω Lines	-10dBu	+10dBu	+30dBu	
ST CH IN (13/14, 15/16)		10kΩ	600Ω Lines	-30dBu	-10dBu	+10dBu	Phone jack*6 RCA pin jack
CH INSERT IN (1-8)	_	10kΩ	600Ω Lines	-20dBu	0dBu	+20dBu	TRS phone jack*7
RETURN (L,R)		10kΩ	600Ω Lines	-12dBu	+4dBu	+24dBu	Phone jack*6
2TR IN [L,R]	_	10kΩ	600Ω Lines	-26dBV	-10dBV	+10dBV	RCA pin jack

### **ANALOG OUTPUT CHARACTERISTICS**

Commentions	Actual Source	For Use With Nominal	Outpu	Commenter	
Connections	Impedance		Nominal Level	Max. before clip	Connector
WEEDER OUT II DE	75Ω	000011	+4dBu	+24dBu	XLR 3-32 type*4
STEREO OUT [L,R]	1,975	600Ω Lines	+4060		TRS phone jack*5
GROUP OUT [1-4]	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack*9
AUX SENO (1-3) (EFFECT SENO)	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack*9
CH INSERT OUT (1-8)	75Ω	10kΩ Lines	0dBu	+20dBu	Phone jack*7
REC OUT [L, R]	600Ω	10kΩ Lines	-10dBV	+10dBV	RCA pin jack
MONITOR OUT [L, R]	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack*9
PHONES OUT	100Ω	40Ω Phones	3mW	75mW	Stereo phone jack

### MG166C-USB, MG166CX-USB -

### DIGITAL INPUT/OUTPUT CHARACTERISTICS

Terminal	Format Data	length	Connector
USB	USB AUDIO 1.1	16 bit.	USB B type

### MG206C, MG206C-USB —

### **ANALOG INPUT CHARACTERISTICS**

Connections	CAIN	Actual load	For use with nominal		Input level		
Connections	GAIN	impedance		Sensitivity*2	Nominal	Max. before clip	Connector
CH IN MIC (1-12) -	-60dB	3kΩ	50-600Ω Mics	-80dBu	-60dBu	-40dBu	VI D 0 01 h
	-16dB	3K22		-36dBu	-16dBu	+4dBu	XLR-3-31 type*4
CH IN LINE (1-12)	-34dB	401.0	00001:	-54dBu	-34dBu	-14dBu	TRS phone jack*5
	+10dB	10kΩ	600Ω Lines	-10dBu	+10dBu	+30dBu	
ST CH MIC IN -60dB (13/14-19/20) -16dB	21.0	50-600Ω	-80dBu	-60dBu	-40dBu	VID 2 21 typet4	
	-16dB	3kΩ	Mics	-36dBu	-16dBu	-6dBu	XLR-3-31 type*4
ST CH LINE IN -340	-34dB	101-0	600Ω Lines	-54d <b>8</b> u	-34dBu	-14dBu	Phone jack*6
(13/14, 15/16)	+10dB	10kΩ		-10dBu	+10dBu	+30dBu	
ST CH LINE IN		101.0	COOO Lines	0040	10-10-	+10dBu	Phone jack*6
(17/18, 19/20)	_	10kΩ	600Ω Lines	-30dBu	-10dBu		RCA pin jack
CHINSERT IN (1-12)	_	10kΩ	600Ω Lines	-20dBu	0dBu	+20dBu	TRS phone jack*7
RETURN (L,R)		10kΩ	600Ω Lines	-12dBu	+4dBu	+24dBu	Phone jack*6
2TR IN ] L,R]	_	10kΩ	600Ω Lines	-26dBV	-10dBV	+10dBV	RCA pin Jack

### **ANALOG OUTPUT CHARACTERISTICS**

Connections	Actual Source	For Use With Nominal	Outpu		
	Impedance		Nominal Level	Max. before clip	Connector
STEREO OUT [L,R]	750	600Ω Lines	+4dBu	+24dBu	XLR 3-32 type*4,
	1,025		+4000		Phone jack*5
GROUP OUT [1-4]	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack*9
AUX SENO (1-4)	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack*9
CH INSERT OUT (1-12)	75Ω	10kΩ Lines	OdBu	+20dBu	Phone jack*7
REC OUT [L, R]	600Ω	10kΩ Lines	-10dBV	+10dBV	RCA pin jack
MONITOR OUT [L, R]	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack*9
PHONES OUT	100Ω	40Ω Phones	3mW	75mW	Stereo phone jack

### MG206C-USB

### DIGITAL INPUT/OUTPUT CHARACTERISTICS

Terminal	Format Data	length	Connector
USB	USB AUDIO 1.1	16 bit	USB B type

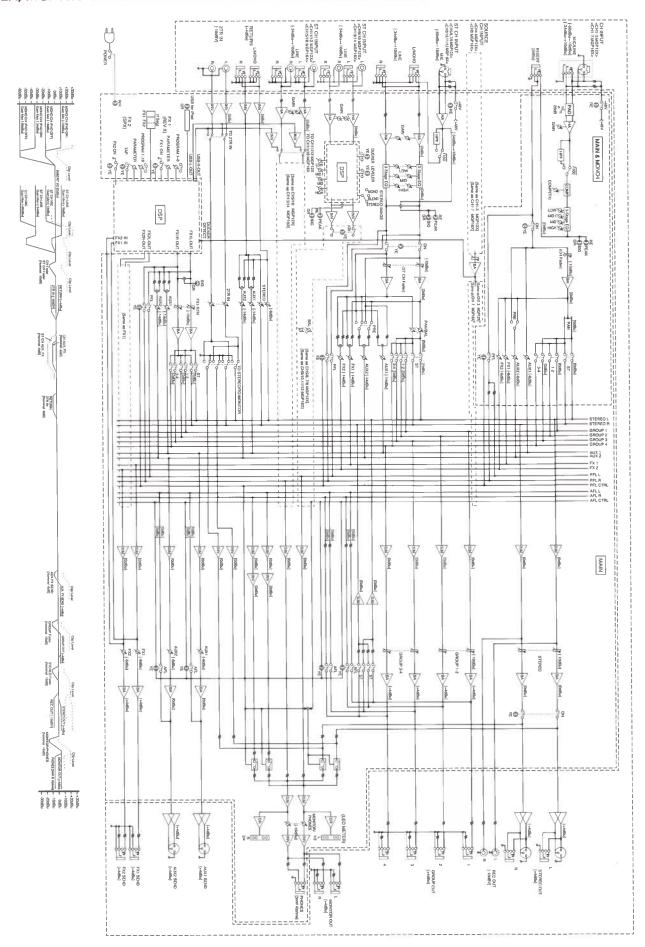
### MG24/14FX, MG32/14FX =

### **ANALOG INPUT CHARACTERISTICS**

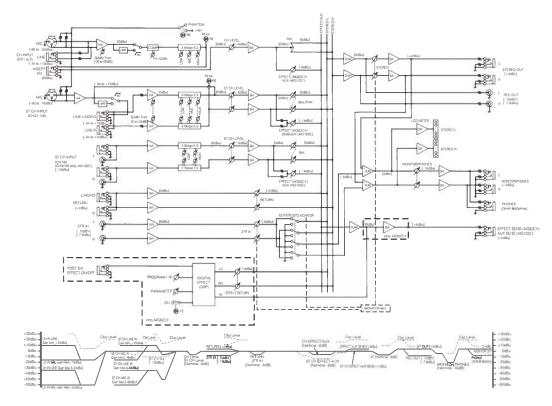
Connections	PAD	GAIN	Actual load	For use with	Inpu	t level		
Connections	PAU	GAIN	impedance	nominal	Nominal Max before clip		Connector	
[A, B] *10 0	0	COAD	01.0	50-600Ω Mics	-60 dBu	-40 dBu		
	26	-60dB			-34 dBu	+14 dBu	A: XLR-3-31type *4 B: Phone Jack(TRS) *1	
	0	1040	3kΩ	600Ω Lines	-16 dBu	+4 dBu		
	26	-16dB			+10 dBu	+30 dBu		
ST CH INPUT *11 *12		-34dB	401.0	600Ω Lines	-34 dBu	-14 dBu	TRS phone Jack*10*11* RCA Pin Jack*12	
		+10dB	10kΩ		+10 dBu	+30 dBu		
CHINSERT IN *10		10kΩ	600Ω Lines	0 dBu	+20 dBu	TDC -h l-ot-sE		
GROUP INSERT IN (1-4)		10kΩ	600Ω Lines	0 dBu	+20 dBu	TRS phone Jack *5		
SUB IN (1, 2) [L, R]		10kΩ	600Ω Lines	+4 dBu	+24 dBu	TRS phone Jack*9		
TBIN		10kΩ	50-600Ω Mics	-50 dBu	-30 dBu	XLR-3-31type *14		
2TR IN [L, R]		10kΩ	600Ω Lines	-10 dBV	+10 dBV	RCA Pin jack		

### **ANALOG OUTPUT CHARACTERISTICS**

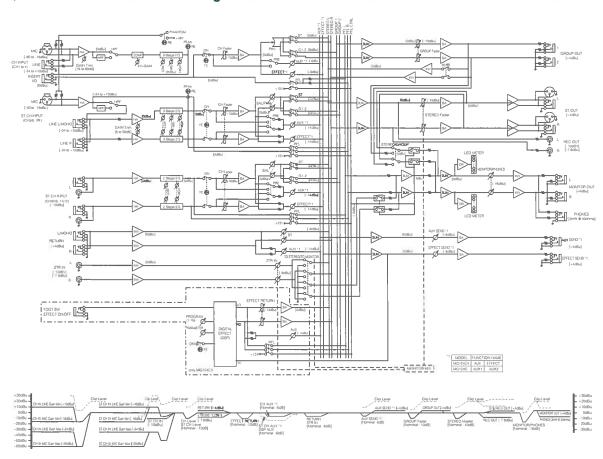
Connections	Actual Source Impedance	For Use With Nominal	Outpu Nominal Level	it level Max. before clip	Connector
ST OUT [L, R] MONO OUT	150Ω	600Ω Lines	+4dBu	+24dBu	XLR-3-32 type *4
GROUP OUT (1-4) AUX OUT (1-6)	150Ω	600Ω Lines	+4dBu	+20dBu	TRS phone Jack *9
ST SUB OUT JL, RJ) EFFECT OUT (1, 2)	150Ω	10kΩ Lines	+4dBu	+20dBu	TRS phone Jack *9
CH INSERT OUT *1 GROUP INSERT OUT (1-4) ST INSERT OUT [L, R]	150Ω	10kΩ Lines	0 dBu	+20dBu	TRS phone Jack *5
REC OUT [L, R]	600Ω	10kΩ Lines	-10 dBV	+10 dBV	RCA Pin jack
PHONES OUT	100Ω	40Ω Phones	3mW	75mW	Stereo Phone Jack



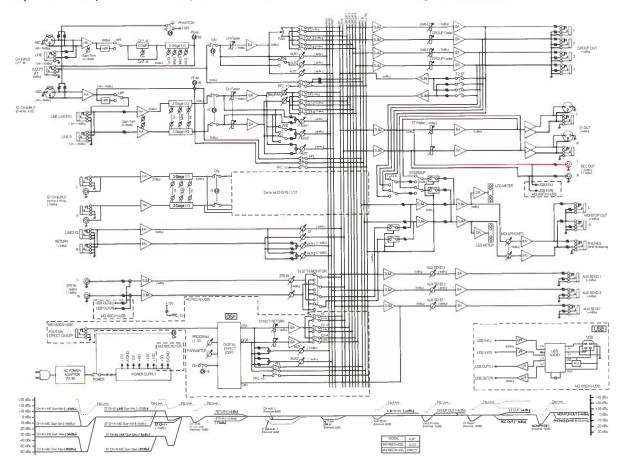
### MG82CX, MG102C Block and Level Diagram



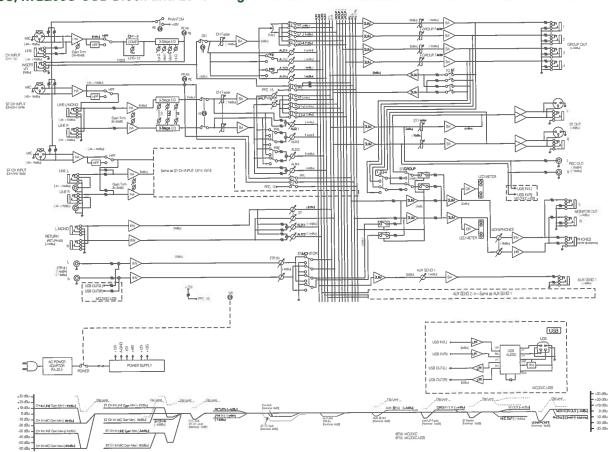
### MG124C, MG124CX Block and Level Diagram



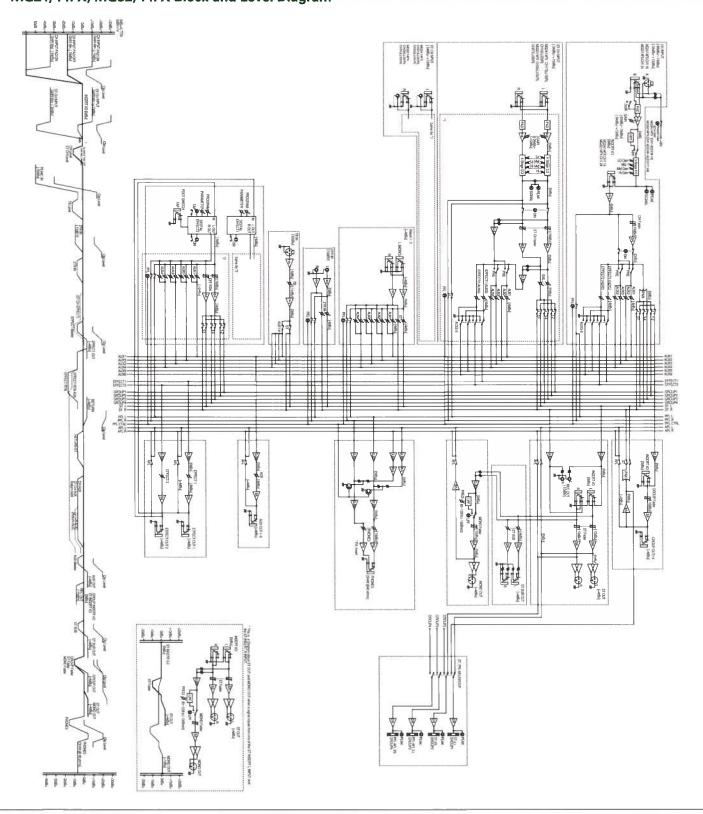
### MG166C, MG166CX, MG166C-USB, MG166CX-USB Block and Level Diagram

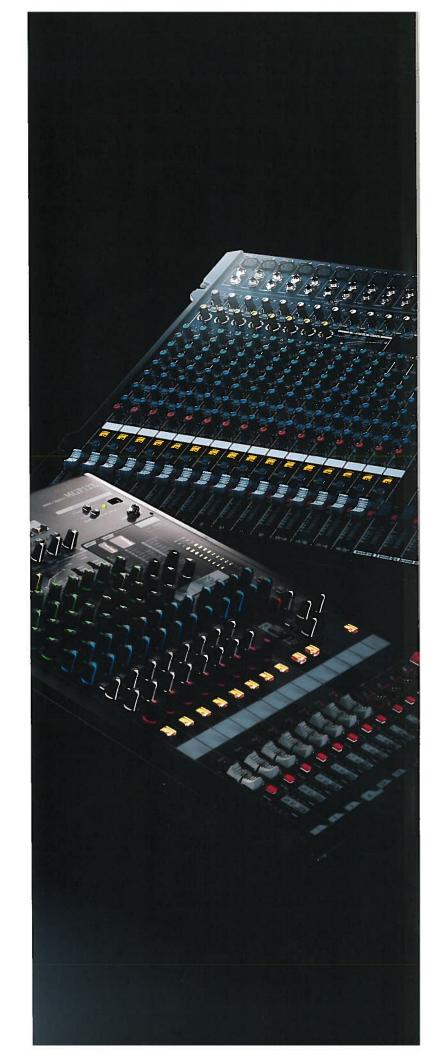


### MG206C, MG206C-USB Block and Level Diagram



### MG24/14FX, MG32/14FX Block and Level Diagram







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