PRO-MATRIX AMPLIFIER



The **Pro-Matrix** was developed expressly for the needs of restaurants, lounges, fitness centers, and other venues that require numerous input sources but have areas with distinctly different audio requirements. The Pro-Matrix amplifier provides 3 fully independent audio channels that can use any of the 6 different inputs in vastly different ways. The Pro-Matrix is designed to be as easy for users to operate as a home stereo, yet it provides the installer with a wide array of customizable features that are all password-protected from tampering.

General Features:

- · 3 Independent audio channels
- 100-, 60-, and 20-watt amplifier channels
- 8-ohm, 70V, and 25V transformer-coupled outputs
- · 4-ohm direct output
- Audio inserts for connection to external signal-processing equipment
- Auto-switching of inputs based on custom assigned priorities and input audio activity
- 4 High-impedance, unbalanced auxiliary inputs
- 2 Microphone inputs; one input can be programmed to accept a telephone line for paging
- Auxiliary trim controls accommodate a wide range of auxiliary input signal levels
- · Wireless infrared remote control unit
- Detachable front panel can be mounted up to 25 feet away from main unit using included accessory cable or up to 250 ft. with optional mounting kit (RMPWMK3)
- · Output level metering for each audio channel
- · Automatic fade-in of audio sources
- Automatic level control for microphones (selectable)
- Microphone page triggering by voice or switch (N.O. or N.C.)
- Phantom power for microphones (13V DC), selectable
- Rack-mountable with kit (RPK79)
- UL listed

Installer Programmable Features:

- · Easy to understand and operate
- Large 10-character alphanumeric display with prompted programming for quick setup
- Password-protected system settings for consistent, foolproof operation
- . 6 user-assigned priority levels for inputs
- Each input can be assigned different priority levels for each of the 3 output channels
- Volume and tone control lockout, independently on each audio channel
- Configure microphone input (ALC, phantom power, VOX or contact triggered)
- Preset power-up levels of each input for volume, treble, and bass
- Programmable variable music mute levels during MIC or TEL page
- Preset bass and treble response of each input for each audio channel
- Limit maximum volume level a user can achieve, programmable for each audio channel
- Large display shows currently active input source
- · Create custom names for input source display

User Features:

- · Manual or automatic selection of input source
- Volume, bass, and treble controls for each audio channel

What Does The Pro-Matrix Do?

The Pro-Matrix Amplifier is ideally suited for restaurants and similar venues. It provides 4 AUX and 2 MIC inputs that can be distributed into 3 different zones. The Pro-Matrix automatically switches the different audio sources based on a preset, user-programmed priority hierarchy. This allows the correct audio to reach the correct areas without any user intervention, making operation ultra simple.

For example, suppose a restaurant has a dining area, lounge, and waiting area that are in need of the following audio sources:

- **The Dining Area** Uninterrupted background music only, no other sources.
- The Bar Hostess paging mic and either background music, jukebox, or TV audio.
- **The Waiting Area** Hostess paging mic and background music only.



The Pro-Matrix adapts quickly to this situation. Connect each area to a different audio channel. Then connect the background music source, jukebox, and TV audio to the AUX inputs, and connect the hostess paging mic. The rest of the installation is completed using the detachable 10-character control panel. Using simple prompted programming, give each input the priority it should have relative to the other sources for each area. Undesired sources can be removed from the priority list in a particular area so they cannot cut in.

This flexible priority assignment allows all the sources needed in the lounge to be handled correctly and automatically, while the same source in the dining and waiting areas are automatically handled differently according to their needs.

In addition to flexible priority assignment of inputs, the Pro-Matrix has 10 different menus that allow control of a host of system operations from applying phantom power to mics to setting the muting level of music during mic pages and much more.

Technical Specifications, Dimensions, and Weights can be found on Page 79





RPK79 Rack Mounting Kit

AMPLIFIER FEATURES CHART

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	Rack Mount					•	•	•	•	•	•		•	•		•	•			•		•	•	•					•		•	•	•		•
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	Amp Channels	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	1	-	-	-	-	-	-	-	1	-	-	2/1	2	2/1	2	2/1
	Model Numbers	GA2	GA6A	C10	TPU15A	C20	C35	6835	TPU35B	V35	BPA60	090	0989	TPU60B	090	C100	GS100	PM3180	TPU100B	V100	WV100	HTA125A	GS150	V150	WV150	GS250	HTA250A	TPU250	V250	WV250	M300	X300	M450	X450	M600
	Amplifier Output Power Rating/ Channel	1.5W	6W	10W	15W	20W	35W	35W	35W	35W	M09	M09	M09	W09	M09	100W	100W	100W/60W/20W	100W	100W	100W	125W	150W	150W	150W	250W	250W	250W	250W	250W	300/600W	300W	450/900W	450W	600/1200W

Feature Included

Features determined by type of module installed

Balanced input available with accessory plug-in transformer (TL100 or TL600)

Accessory kit required for mounting Contact closure activation only * Some inputs are switch selectable. The number in parentheses shows the maximum number of inputs when switched.

† BAL2S balanced input module included standard; uses one modular input bay.

Specifications subject to change without notice.

AMPLIFIER SPECS CHART

10W	Model	Output Power	Change	Eventional Decembers.	***************************************	Cnoolog Outunto	AC Line	Dimonojono	Product
10W	Numbers	natility/ bilalilie	cilalife	nequency nesponse	DISTOITION	opeaner outputs	Diaw	Dillicitations	Weighit
100W 1 70 Hz to 16 kHz 1% Max 1% Max 100W 1 200 Hz to 16 kHz 17% Max 15 W Max 200 Hz to 20 kHz 20% Max 1 300 Hz to 15 kHz 25% Max 1 300 Hz to 20 kHz 10 max 150W 20 Hz to 20 kHz 17	BPA60	M09	-	20 Hz to 20 kHz	2% Max	8-ohm/25V, 16-ohm, 25VCT, 70V	180W	15-1/4" W × 3-1/2" H × 8-1/4" D	17 lb.
20W	C10	10W	,	11.02	70.7	70V, 25V, 16-ohm,	38W	CHO/O CHIRO/COMBO/OFF	5 lb.
150W	C20	20W		/0 Hz to 16 kHz	1% Max	8-ohm, 4-ohm	50W	11-3/8 W X 2-//8 H X /-3/8 D	6 lb.
60W 1 70 Hz to 16 kHz - Transformer, 19% Max 19% Max 15W 1 20 Hz to 20 kHz - Direct 2% Max 6W 1 30 Hz to 12 kHz 2% Max 8W 1 30 Hz to 12 kHz 2% Max 6W 1 30 Hz to 20 kHz - Direct 2% Max 150W 2 20 Hz to 20 kHz - Direct 0.5% Max 250W 20 Hz to 20 kHz - Direct (Amp 1 & 2); 70 Hz to 20 kHz - Direct (Amp 1 & 2); 70 Hz to 20 kHz - Direct (Amp 1 & 2); 70 Hz to 20 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 12 kHz - Direct (Amp 1 & 2); 70 Hz to 20 kHz - Direct (Amp 1 & 2); 70 Hz to 20 kHz - Direct (Amp 1 & 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2); 70 Hz to 20 kHz - Direct (Amp 2);	C35	35W				70V, 25V, 16-ohm.	85W		15 lb.
1.5W	090	M09	-	70 Hz to 16 kHz - Transformer;	1% Max	4-ohm direct	148W	14-1/2" W × 3-3/4" H × 11" D	17 lb.
1.5W 1 200 Hz to 15 kHz 2% Max 50W 1 30 Hz to 12 kHz 2% Max 60W 1 30 Hz to 12 kHz 2% Max 60W 1 20 Hz to 20 kHz - Transformer; 0.5% Max 150W 2 20 Hz to 20 kHz - Transformer; 0.5% Max 250W 2 20 Hz to 20 kHz - Transformer; 0.5% Max 100W 3 20 Hz to 20 kHz - Transformer; 1% - Amp 1 & 2.	C100	100W		20 Hz to 20 kHz - Direct		8-ohm on C35 and C60	220W		19 lb.
58W 1 30 Hz to 12 kHz 2% Max 60W 65 Hz to 20 kHz - Transformer; 0.5% Max 125W 2 O Hz to 20 kHz - Direct 0.5% Max 2560W 2 O Hz to 20 kHz - Direct 0.5% Max 260W 2 O Hz to 20 kHz - Trans (Amp 1 & 2); 1% - Amp 3 15W 2 O Hz to 20 kHz - Direct (Amp 3); 1% - Amp 3 15W 2 O Hz to 20 kHz - Direct (Amp 3) 1% - Amp 3 15W 2 O Hz to 20 kHz - Direct (Amp 3) 1% - Amp 3 15W 2 O Hz to 15 kHz - Direct (Amp 3) 1% - Amp 3 15W 2 O Hz to 15 kHz - Direct (Amp 3) 1% - Amp 3 15W 2 O Hz to 15 kHz - Direct (Amp 3) 1% - Amp 3 15W 2 O Hz to 15 kHz - Direct (Amp 3) 1% - Amp 3 15W 2 O Hz to 20 kHz - Transformer; 100W 100W 250W 1 45 Hz to 20 kHz - Direct (Max) 100W 250W 2 O Hz to 20 kHz - Direct (Max) 100W 2 O Hz to 20 kHz - Direct (Max)	GA2	1.5W	-	200 Hz to 15 kHz	2% Max	8- & 600-ohm	4W	5-1/2" W x 4-1/8" H x 2-1/4" D	2 lb.
150W 1 20 Hz to 20 KHz - Direct 0.5% Max 150W 2	GA6A	6W	-	30 Hz to 12 kHz	2% Max	70V, 25V, 8-ohm	16W	8-1/2" W x 2-3/4" H x 6" D	5 lb.
1500W 1 20 Hz to 20 KHz - Direct 0.5% Max 1250W 2 D Hz to 20 KHz - Direct 0.5% Max 1250W 2 D Hz to 20 KHz - Direct 0.5% Max 250W 2 D Hz to 20 KHz 2 D KHz 100W 3 D Hz to 20 KHz - Trans (Amp 3); 1% - Amp 18; 1% - Amp 3	6835	35W					0.9A		17 lb.
100W 1 20 Hz to 20 kHz - Direct 0.5% Max 250W 250W 1 20 Hz to 20 kHz - Direct 0.5% Max 250W 20 Hz to 20 kHz - Trans (Amp 3), 1% - Amp 18.2; 1% - Amp 3 100W 3 20 Hz to 20 kHz - Trans (Amp 18.2); 1% - Amp 3 20W 1 70 Hz to 15 kHz - Trans (Amp 18.2); 1% - Amp 3 20W 1 70 Hz to 12 kHz - Direct (Amp 3) 1% - Amp 3 20W 1 70 Hz to 12 kHz 1% Max 150W 1 70 Hz to 15 kHz - Direct (Amp 3) 1% - Amp 3 250W 250W 1 70 Hz to 20 kHz - Transformer; 1150W 150W 150W 1 45 Hz to 20 kHz - Transformer; 1150W 1 45 Hz to 20 kHz - Transformer; 1150W 1 45 Hz to 20 kHz - Direct (Max) 250W 20 Hz to 20 kHz - Transformer; 1150W 1 45 Hz to 20 kHz - Direct (Max) 250W 250W 20 Hz to 20 kHz - Direct (Max) 300W 20 Hz to 20 kHz - Direct (Max) 300W 20 Hz to 20 kHz - Direct (Max) 450W 20 Hz to 20 kHz - Direct (Max) 450W 20 Hz to 20 kHz - Direct (Max) 450W 20 Hz to 20 kHz - Direct (Max) 450W 20 Hz to 20 kHz - Direct (Max) 450W 20 Hz to 20 kHz - Direct (Max) 450W 20 Hz to 20 kHz - Direct (Max) 450W 20 Hz to 20 kHz - Direct (Max) 450W 20 Hz to 20 kHz - Direct (Max) 450W 20 Hz to 20 kHz - Direct (Max) 450W 20 Hz to 20 kHz - Direct (Max) 450W 20 Hz to 20 kHz - Direct (Max) 450W 20 Hz to 20 kHz - Direct (Max) 450W 20 Hz to 20 kHz - Direct (Max) 450W 20 Hz to 20 kHz - Direct (Max) 450W 20 Hz to 20 kHz - Direct (Max) 450W 20 Hz to 20 kHz - Direct (Max) 450W 20 Hz to 20 KHz - Direct (Max) 450W 20 Hz to 20 KHz - Direct (Max) 450W 20 Hz to 20 KHz - Direct (Max) 450W 20 Hz to 20 KHz - Direct (Max) 450W 20 Hz to 20 KHz - Direct (Max) 450W 20 Hz to 20 KHz - Direct (Max) 450W 20 Hz to 20 KHz - Direct (Max) 450W 20 Hz to 20 KHz - Direct (Max) 450W 20 Hz to 20 KHz - Direct (Max) 450W 20 Hz to 20 Hz to 20 KHz - Direct (Max) 450W 20 Hz to 20 H	0989	M09		65 Hz to 20 kHz - Transformer		70V, 25V, 25VCT,	1.3A		20 lb.
150W 125W 1 20 Hz to 20 KHz 0.5% Max 250W 300,600W 0 0 0 0 0 0 0 0 0	GS100	100W	-	20 Hz to 20 KHz - Direct	0.5% Max	8-ohm, 4-ohm direct	2.2A	16-1/2" W x 3-1/2" H x 13-1/2" D	23 lb.
125W	GS150	150W					3.0A		29 lb.
1250W 1	GS250	250W					5.0A		30 lb.
250W 2	HTA125A	125W	,	-H4 06 04 -H 06	0.5% May	70V, 25VCT, 25V,	260W	19" W × 5-17" H	36 lb.
300/600W 2	HTA250A	250W	-	ZU TIZ LU ZU KHZ	0.0 / 0 INIAA	8-ohm, 4-ohm	520W		50 lb.
450/900W 1 20 Hz to 20 Htz 20 Hz to 20 Hz to 20 Hz to 20 Hz to 20 Hz 70 Hz to 20 Hz 70 Hz to 20 Hz 70 Hz to 15 KHz 70 Hz to 20 KHz 70 Hz t	M300	300/600W	٠				12A	G 10/7 07 11 10/7 0 1 24 167	41 lb.
100W 3 70 Hz to 20 kHz - Trans (Amp 1 & 2); 0.5% - Amp 1&2; 0.0W 20W 20 kHz - Trans (Amp 3); 1% - Amp 3 1% - A	M450	450/900W	- 0r	20 Hz to 20 kHz	0.5% Max	4- to 8-ohm (2 channel mode); 70V (1 channel mode)	15A	1/ W x 3-1/2 H x 18-1/2 D (not including brackets)	44 lb.
100W 3 7.0 Hz to 20 kHz - Trans (Amp 1 & 2); 0.5% - Amp 18.2; 7.0 Hz to 20 kHz - Trans (Amp 3); 1% - Amp 18.2; 7.0 Hz to 15 kHz - Intert (Amp 3); 1% - Amp 3 1% - Amp 3 2.0 Hz to 15 kHz - Direct (Amp 3); 1% - Amp 3 1% - Amp 3 100W 1 7.0 Hz to 12 kHz 1% Max 100W 1 7.0 Hz to 15 kHz 1% Max 150W 250W 100W 1 45 Hz to 20 kHz - Transformer; 1.50W 100W 1 45 Hz to 20 kHz - Direct (Max) 250W 100W 1 45 Hz to 20 kHz - Direct (Max) 1.00W 1 45 Hz to 20 kHz - Direct (1% - Direct (Max) 250W 250W 2 20 Hz to 20 kHz - Direct (Max) 2 2 2 2 2 2 2 2 2	M600	600/1200W	-				20A		46 lb.
15W 70 Hz to 12 KHz 2% Max 35W 100W 1 70 Hz to 15 KHz 1% Max 100W 250W 45 Hz to 20 KHz - Transformer; 100W 1 45 Hz to 20 KHz - Direct (Max) 250W 150W 1 45 Hz to 20 KHz - Direct (Max) 250W 150W 1 45 Hz to 20 KHz - Transformer; 150W 150W 1 20 Hz to 20 KHz - Transformer; 150W 1 20 Hz to 20 KHz - Direct (Max) 300W 2 20 Hz to 20 KHz 0.5% Max 600W 2 20 Hz to 20 KHz 0.5% Max 600W 2 20 Hz to 20 KHz 20 KHz	PM3180	100W 60W 20W	8	70 Hz to 20 kHz - Trans (Amp 1 & 2); 70 Hz to 15 kHz - Trans (Amp 3); 20 Hz to 20 kHz - Direct (Amp 1 & 2); 20 Hz to 15 kHz - Direct (Amp 3)	0.5% - Amp 1&2; 1% - Amp 3 (Max)	70V, 25V, 8-ohm, 4-ohm direct	430W	17° W x 5-1/2° H x 12-1/2° D	38 lb.
35W 1	TPU15A	15W		70 Hz to 12 kHz	2% Max	70V, 25V, 8-ohm	0.5A	11" W x 2-3/4" H x 2-3/8" D	4 lb.
100W 1 70 Hz to 15 kHz 1% Max 100W 250W 35W 45 Hz to 20 kHz - Transformer; 0.1% - Direct (Max) 100W 1 45 Hz to 20 kHz - Transformer; 0.1% - Direct (Max) 150W 1 20 Hz to 20 kHz - Transformer; 150W 250W 250W 250W 250W 20 Hz to 20 kHz - Direct (Max) 200W 2 20 Hz to 20 kHz	TPU35B	35W					0.75A		12 lb.
100W 35W 0.5% -	TPU60B	M09	-	70 Hz to 15 kHz	1% Max	/0V, 25V, 25VCI, 16-ohm	1.5A	14-1/4" W x 8-3/8" H x 3-5/8" D	15 lb.
250W 35W 1 45 Hz to 20 kHz - Transformer; 0.1% - Direct 150W 1 20 Hz to 20 kHz - Transformer; 0.1% - Direct (Max) 1 250W 1 20 kHz - Transformer; 150W 1 20 kHz - Transformer; 150W 1 20 Hz to 20 kHz - Transformer; 150W 1 20 Hz to 20 kHz - Direct (Max) 300W 2 20 Hz to 20 kHz 0.5% Max 600W 2 20 Hz to 20 kHz 20 kHz 0.5% Max 600W 2 20 Hz to 20 kHz 20 kHz 0.5% Max 600W 2 20 Hz to 20 kHz 20 k	TPU100B	100W					2A		18 lb.
35W 60W 1 45 Hz to 20 kHz - Transformer; Transformer; 0.15% - Transformer; 0.1% - Direct (Max) 20 Hz to 20 kHz - Direct (Max) 250W 100W 1 45 Hz to 20 kHz - Transformer; Transformer; Transformer; 20 Hz to 20 kHz - Direct (Max) 300W 2 20 Hz to 20 kHz - Direct (Max) 600W 2 20 Hz to 20 kHz 0.5% Max 600W 2 20 Hz to 20 kHz 0.5% Max 600W 2 20 Hz to 20 kHz 0.5% Max 600W 2 2 2 2 2 2 2 2 2	TPU250	250W			•	700, 250	5A	19" W x 10-1/2" H x 3-7/8" D	28 lb.
60W	V35	35W					0.6A		22 lb.
100W	09/	M09			0.5%		1.3A		26 lb.
150W 100W 1 45 Hz to 20 kHz - Transformer; (Max) 100W 250W 100 kHz - Direct (Max) 100W 20 Hz to 20 kHz - Direct (Max) 300W 2 20 Hz to 20 kHz 0.5% Max 600W 2 20 Hz to 20 kHz 0.5% Max 0.5% Ma	V100	100W	-	45 Hz to 20 kHz - Transformer; 20 Hz to 20 kHz - Direct	0.1% - Direct	70V, 25V, 8-ohm, 4-ohm direct	2.0A	17-1/4" W x 3-7/8" H x 14 -3/4" D	28 lb.
100W	V150	150W			(Max)		3.5A		31 lb.
100W 1	V250	250W					5.5A		32 lb.
150W 1	WV100	100W			0.5% -		2.0A		27 lb.
250W 2012.02.01.12 0.000	WV150	150W	-	45 Hz to 20 KHz - Iranstormer;	0.1% - Direct	70V, 25V, 8-ohm,	3.5A	14-1/8" W × 21" H	29 lb.
300W 2 20 Hz to 20 kHz 0.5% Max 600W 0.5% Max	WV250	250W		20 12 10 20 11 12 10 20 11 12	(Max)		5.5A		28 lb.
450W 2 20 Hz to 20 kHz 0.5% Max 600W 600W 0.5% Max	X300	300W					12A	G #7/4 O + \ \ U = 0/4 C \ M = Z +	41 lb.
_	X450	450W	2	20 Hz to 20 kHz	0.5% Max	70V direct	15A	(not including brackets)	44 lb.
	009X	W009	_				20A		46 lb.

^{*@ -2}dB FRP Transformer output; @ FRP for Direct outputs

^{**} Bandwidth limited to frequency response

^{***}FRP @ 120V AC line voltage