

### PAM-32

#### Program Assignment Monitor

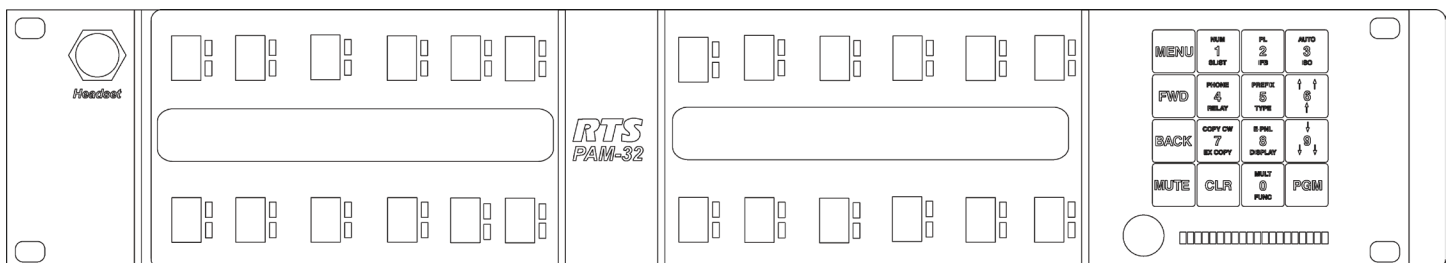


The RTS Model PAM-32 keypanel fits in a standard 19" rack and is two (2) **RU** (Rack Units) high. It has 32 pushbutton keys; 30 of which are monitoring inputs; one (1) key for scrolling alpha assignments; and one (1) key is for headset/speaker selection. It adds significant new features such as **DSP** (Digital Signal Processing) and binaural headset operation with left/right assignment of audio signals. The PAM-32 also introduces large, super-bright, long-life fluorescent displays with adjustable brightness control, making it suitable for all types of ambient lighting from direct sunlight to darkness.

## Features

- Super-bright, fluorescent displays: Provides better visibility and usable life than LCD displays. A display saver mode with programmable scrolling message extends display life and conserves power during periods of inactivity.
- 32 Pushbutton Keys, with 30 keys available for monitoring inputs.
- Only 3.54 inches (90mm) deep behind the front panel (approximately 5.11 inches/130mm with connectors). Perfect for consoles, OB vans, etc.
- **DSP** (Digital Signal Processing) adds new mixing and metering capabilities.
- Binaural (1/4" phone/stereo plug) headset connector works with the DSP mixing feature. It lets you independently assign intercom, microphone, and program audio to left or right headphone.
- Easy upgrades. Firmware updates can be received via the Internet, for example, and then downloaded to the PAM-32 via the intercom connection. Ready for future communication enhancements, including coax, fiber, and ISDN.

## Line Drawings



# Specifications

## General

AC Supply:  
External, switching type, 100–240VAC, 50/60Hz with locking DIN connector for attachment to the keypad and universal IEC connector for connection to various AC mains cords.

## Environmental

Storage: -40°C to 60°C (-40°F to 140°F)  
Operating: -10°C to 41°C (14°F to 105.8°F)

## Dimensions

19" (482.6mm) W x 3" (76.2mm) H x 3.5" (90mm) D

## Weight

6.44lbs (2.92kg)

## Mounting Depth Needed

Approx. 7"

## Headphone Amplifier

Max Voltage Gain: 200dB  
Frequency Response: 100Hz to 10kHz, ±2dB  
Headphone Impedance: 8 to 600  
Output Power: 160mW into 50  
Output Voltage Level: 8 Volts peak to peak (max.)  
Sidetone Range: 25dB

## Speaker Amplifier and Speaker

Frequency Response: 100Hz to 10kHz, ±2dB  
Output Power (per amplifier): 4 Watts into 4  
Output Voltage Level: 11.3 Volts peak to peak (max.)  
Volume Control Range: 30dB  
Speaker Rating: 4 Watts (max.)

## Intercom Inputs (Side A)

Input - Nominal: +8dBu  
Peak: ± 20dBu (max.)

## AUX Inputs (Side B)

Input Level: +8dBu (nom.)  
Connectors (other connector options available)  
Headset Connector  
Type: 3-circuit, ¼" phone jack with threaded metal bushing  
Pin-out  
Tip: Audio side A+  
Ring: Audio side B+  
Sleeve: Ground

## Power Input Connector

Type: 5-pin locking DIN  
Pin Out  
Pin 1: Common; Pin 2: Common; Pin 3: +5VDC, 1.50A (max.); Pin 4: -15VDC, 0.150A (max.); Pin 5: +15VDC, 0.5A (max.)

## Intercom Connectors: Parallel-wired DE9S and RJ-12 Connectors

Type: DE9S  
Pin Out  
Pin 1: Data +; Pin 2: Data -; Pin 3: Audio In (from Matrix) shield; Pin 4: Audio Out (to Matrix) +; Pin 5: Audio Out (to Matrix) (-); Pin 6: Data Shield; Pin 7: Audio In (from Matrix) (-); Pin 8: Audio In (from Matrix) (+); Pin 9: Audio Out (to Matrix) shield  
Type: RJ-12  
Pin Out  
Pin 1: Data -; Pin 2: Audio In (from Matrix) (+); Pin 3: Audio Out (to Matrix) (+); Pin 4: Audio Out (to Matrix) (-); Pin 5: Audio In (from Matrix) (-); Pin 6: Data +

## Expansion Connector

Type: RJ-45  
LCP Connector  
Type: RJ-45

## Foot Switch/Speaker

Type: 9-pin male D-Sub  
Pin Out  
Pin 1: Gnd; Pin 2: Speaker Low (-); Pin 3: Gnd; Pin 4: No Connection; Pin 5: Foot Switch; Pin 6: Speaker High (+); Pin 7: No Connection; Pin 8: No Connection; Pin 9: Gnd

## Matrix Out Balanced Output

Type: 3-pin Male XLR  
Pin Out  
Pin 1: Shield (circuit common); Pin 2: Audio output +; Pin 3: Audio output -  
**Note:** Output Level +8dBu nominal (balanced).

# Order Information

PAM32-BLK • PAM-32 • PAM 32 PB BLK USA  
PAM32-GRY • PAM-32 • PAM 32 PB GRY USA  
PAM32PBBLK-EURO • PAM-32 • PAM 32 PB BLK EURO  
PAM32PBGRY-EURO • PAM-32 • PAM 32 PB GRY EURO  
PAM32PBBLK-UK • PAM-32 • PAM 32 PB BLK UK  
PAM32PBGRY-UK • PAM-32 • PAM 32 PB GRY UK  
PAM32PBBLK-NC • PAM-32 • PAM 32 PB BLK NO CORD  
PAM32PBGRY-NC • PAM-32 • PAM 32 PB GRY NO CORD

The specification information is preliminary and is subject to change without notification.  
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