

## KP-632/24

### 24-Position Keypanel

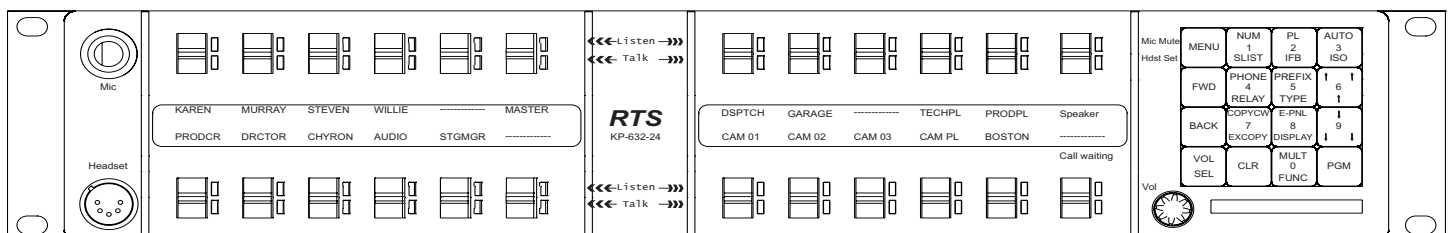


The RTS Model KP-632/24 keypanel mounts in a standard 19" equipment rack, is 2 **RU** (Rack Units) high and has 24 lever keys: 22 keys for intercom talk/listen assignment; one (1) key for call waiting respond/clear; and one (1) key for headset/microphone switching. The KP-632/24, like the KP-32 keypanel, combines all of the programmable features of the KP-9X and KP-12 series of keypanels. Significant innovative features, such as **DSP** (Digital Signal Processing) and binaural headset operation with left/right assignment of audio signals have been added to the unit. The KP-632/24 introduces large LCD displays with adjustable backlighting. These innovative displays allow for a total of six (6) characters per key which translates into more naming possibilities.

## Features

- Large LCD displays that provide eight characters per lever key. Provides good contrast with adjustable backlighting over a wide range of light conditions.
- 24 lever keys, with 22 keys available for full Talk/Listen configuration. Keys support both latching (hands-free) and momentary (push-to-talk) operation.
- Enhanced programming keypad. Provides the complete keypad command subset, plus new keypad commands and an extensive scrollable menu system. Menus include helpful prompts to walk the user through setup.
- Only 90mm deep behind the front panel (approximately 130mm with connectors). Perfect for consoles, OB vans, etc.
- DSP improves microphone voice activation and limiting. Adds new mixing, metering and filtering capabilities.
- Binaural (4-pin or 5-pin) headset connector works with the DSP mixing feature. Lets you independently assign intercom, mic, and program audio to left or right headphone.
- Upgradable.
- Optional **GPI** (General Purpose Interface)/connector module available.
- Optional EKP-632 expansion panel available.

## Line Drawing



# Specifications

## Microphone Preamplifier

Panel Mic (Electret) Input Level: -42dB, 150 @ 1kHz  
 Headset Mic (Dynamic) Input Level:  
 -50dBm, 150  $\Omega$  @ 1kHz  
 Output Level (to matrix): +8dBu,  $\pm$  0.2dBu  
 Max Voltage Gain, Mic to Line: 70dB,  $\pm$  2dB  
 Frequency Response: 100Hz to 10kHz,  $\pm$  2dB  
 Limiter: 8dB above nominal

## Tone Generator

Output Level (to matrix): +8dBu  $\pm$  2dBu  
 Output Frequency: 500Hz

## Headphone Amplifier

Maximum Voltage Gain: 10dB  
 Frequency Response: 100Hz to 10kHz,  $\pm$  2dB  
 Headphone Impedance: 8 to 600  $\Omega$   
 Output Power: 300mW into 50  $\Omega$   
 Output Voltage Level: 8 volts peak-to-peak (max.)  
 Sidetone Range: 25dB or mute

## Speaker Amplifier and Speaker

Maximum Voltage Gain: 25dB  
 Frequency Response: 100Hz to 10kHz,  $\pm$  2dB  
 Output Power (per amplifier): 4 watts into 4  $\Omega$   
 Output Voltage Level: 12 volts peak-to-peak (max.)  
 Volume Control Range: 52dB  
 Speaker Rating: 4 watts (max.)

## Intercom Balanced Line Input/Output

Input Level: Nominal: +8dBu Peak:  $\pm$  20dBu (max.)  
 Input Impedance: 22k  $\Omega$   
 Output Level: +8dBu,  $\pm$  2dBu nominal  
 Output Impedance: 600  $\Omega$

## External Balanced Line Input: (Program Input)

Input Level +8dBu nominal

## General

AC Supply: External, switching type, 90–230VAC  $\pm$ 10%,  
 50/60Hz with locking DIN connector for attachment to the  
 keypanel and universal IEC connector for connection to  
 various AC mains cords  
 Environmental:  
 Storage: -40°C to +60°C  
 Operating: -10°C to +41°C

# Order Information

KP-632/12 • KP-632/12 • 12-position keypanel  
 KP-632/24 • KP-632/24 • 24-position keypanel

This specifications information is preliminary and is subject to change without notification.  
 Brand names mentioned are the property of their respective companies.

## Dimensions

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

## Weight

6.3 lbs (2.85kg)

## Connectors (Other connector options available)

Panel Microphone Connector (Electret)  
 Type: 3-circuit, ¼" phone jack w/threaded metal bushing,  
 compatible w/RTS MCP-90-XX  
 Pin-out: Tip: Audio+ and DC bias  
 Ring: Common  
 Sleeve: Chassis ground  
 Headset Connector (Dynamic)  
 Type: XLR-5 female  
 Pin-out: Pin 1: Mic low; Pin 2: Mic high; Pin 3: Common;  
 Pin 4: Headphone left high; Pin 5: Headphone right high  
 Power Input Connector  
 Type: 5-pin locking DIN  
 Pin-out: Pin1: Common; Pin2: Common; Pin3: +5VDC,  
 1.50A (max.); Pin4: -15VDC, 0.150A (max.); Pin5:  
 +15VDC, 0.5A (max.)  
 Intercom Connectors: Parallel-wired DB9S and RJ-12  
 Connectors  
 Type: DB9S  
 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