

**NEW!**

RS-701

The RS-701 is a single-channel analog beltpack featuring high performance audio for use in a wide variety of environments, all within a rugged ergonomic housing.

#### DESCRIPTION

The RS-701 is a single-channel analog beltpack with an XLR-3 line connector and XLR-4M headset connector. A mic preamp with a dynamic range of 130 db enables intelligible voice communication for every volume level, from a whisper to a shout. The beltpack also combines high headroom, low-noise audio and shaped frequency contour (Clear-Com Sound) to deliver crystal-clear audio. Recessed rotary volume control, Talk key and Call key guard against accidental activation. The beltpack features LEDs on the top for visual indication of incoming/outgoing call signalization. The RS-701 has a low operating current to allow for more beltpacks in a chain.

#### DIP SWITCHES AND LEDS

A concealed DIP switch panel on the back of the beltpack allows the capability to select audio and key options quickly and easily. DIP switches can control features such as switching between electret or dynamic headset,

setting a minimum or off level for headphone output, adjusting volume settings, enabling or disabling LED signals, having Call on Talk or latching the Talk key. A green LED indicates that the beltpack is powered and a green LED on the Talk key indicates that the microphone is active (Talk is latched). An amber LED indicates a Call signal on the channel.

#### IMPROVED DESIGN

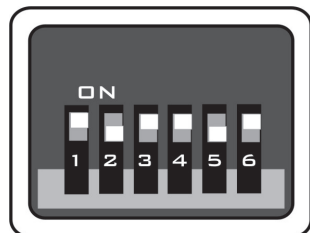
The RS-701 is designed in a rugged and reliable casing with a retro-design connection to the previous RS-500 Series beltpacks. A belt clip allows a variety of ways to use the beltpack; users can clip it to a belt or lanyard, or users can mount the belt clip to a wall, pole or desk for fixed installations.

#### COMPATIBILITY

The RS-701 is compatible with all Encore partyline products, as well as the PL-Pro line and other partyline systems via Encore interfaces.

#### KEY FEATURES AND BENEFITS

- Visual LED indication on top of keypad for Power (green), Call Signal (amber), and Talk Latch (green)
- Tactile buttons for Call and Talk
- Recessed rotary control for Volume with end stops for 270° rotation range
- Concealed, programmable DIP Switches for Latch Talk, Talk with Call, LEDs Off, Mic Gain, Mic Type and HP Level Off
- Fully compatible with current and previous models of Clear-Com analog partyline systems
- Low operating current for more beltpack chaining
- Rugged and strong construction
- "Clear-Com Sound" for intelligible audio



RS-701 DIP Switches



RS-701 Top View



RS-701 Bottom View

### DIP Switch Settings:

1. Mic Type  
ON = Dynamic (default)  
OFF = Electret
2. Headset Output Level  
ON = High  
OFF = Low (default)
3. Min Volume – Channel A  
ON = Mute at min level (default)  
OFF = Not silent at min level
4. LEDs On/Off  
ON = LEDs normal operation (default)  
OFF = All LEDs dark
5. Call-on Talk Enable – Channel A  
ON = Call occurs when talk on  
OFF = No call when talk on (default)
6. Talk Latch Enable – Channel A  
ON = Latch enabled (default)  
OFF = Latch disabled

## TECHNICAL SPECIFICATIONS

### Microphone Pre-Amplifier

Mic to Line  
(without limiter acting)  
Frequency Response: 280 – 15k Hz  $\pm$  3dB  
Microphone output  
to line – Audio Level  
(-50dBm Electret  
input): -9dBm  
Microphone output  
to line – Distortion: <0.1%  
Microphone output to  
line – Signal to Noise: >65dB  
Clear-Com Sound: Yes

### Headphone Amplifier

Frequency Response –  
Line to Headphone: 150 – 20k Hz  $\pm$  3dB  
Headphone input from  
line – Audio Level  
(-9dBm Electret input): 3.5dBm  
Headphone input  
from line – Distortion: <0.5%  
Headphone input  
from line – Signal  
to Noise: >50dB

Earphone to Mic –  
Crosstalk: >80dB  
Sidetone –  
Adjustment Range  
(-80db mic input): >45dB

### Keypad Indicators

Power: Green LED  
Talk: Green LED  
Call: Orange LED

### Connectors

Intercom Line: (2) 3-pin XLR–M–F  
Ch. 1 2-Wire  
Intercom Channel  
Pin 1: Common  
Pin 2: PL Power (+28VDC)  
Pin 3: Line (Audio)  
Headset:  
4-pin XLR–M  
Headset Connector  
Pin 1: Mic – (Mic Common)  
Pin 2: Mic +  
Pin 3: Spkr–  
Pin 4: Spkr+ (&0.5\*VCC  
DC (Supply between  
Pin 4 & Pin 1)

### Power Requirements

Voltage input range: 12 MIN - 30 MAX VDC  
Current (all inputs off): ~12mA MAX  
Call Voltages –  
Call Voltage: 16.5V dc  
Call Voltages – Min  
Call Voltage needed: 3.3V

### Environmental

Operating Temp  
Range: 0°C - 70°C (32°F - 158°F)  
Storage Temp Range: 0°C - 70°C (32°F - 158°F)  
Operating Altitude:  
Relative Humidity: 0 - 90% non condensing

### Dimensions

3.4in H x 4.5in W x 1.7in D  
(86.4 x 114.3 x 43.2 mm)

### Weight

0.66 lbs (0.30 kg)

### Notice About Specifications

While Clear-Com makes every attempt to maintain the accuracy of the information contained in its data sheets, that information is subject to change without notice. Performance specifications included in this data sheet are design-center specifications and are included for customer guidance and to facilitate system installation. Actual operating performance may vary.