

Models 221E - 621E DMX512 Combine Units

Safety Notice:

There are no user serviceable parts in the Model 221E - 621E series. Refer any service needs to a qualified service technician.

Description:

All inputs are isolated from the output by optical couplers. Every input has its own power supply and line receiver. Indicators on each input display signal status. A 'Mimic 1' indicator displays the relative level of channel 1.

This series of combiners is designed to be placed on a table top or to be rack mounted using our optional RK8-1 rack mounting kit. Signal wires are connected to the unit using standard 5-pin XLR connectors.

This series of combine units allows multiple control consoles to be used to operate one set of dimmers, moving lights, etc.

Connections:

Line Cord. The combiners are fitted with a non-detachable line cord with a male parallel blade connection.

The combiners are designed to work on any voltage between 100 and 120 volts 50/60 Hz, or from 220 - 240 volts. 50/60 Hz. Alternate power cords are available to adapt to local power outlets. If a choice of line voltages are available, selecting the lower voltage will allow the splitter to run cooler.

DMX Inputs. DMX input signals are applied to the male 5 pin DMX IN XLR connectors.

DMX Output. The DMX output signal is available on the female 5 pin DMX OUT XLR connector.

Termination. For maximum reliability each DMX512 control run needs to be terminated. All inputs to the combiner are automatically terminated. The output needs to be terminated at the end of its control run. Sometimes termination is built into the receiver. In other cases a terminator should be plugged into the feed-through connector of the last device.

Indicators:

Power Indicator. The red POWER LED will illuminate when power is applied to the combine unit.

Mimic 1 Indicator. The green 'Mimic 1' indicator dims to a level representative of the level of channel one.

Signal Indicators. The green signal indicators (A - F) will illuminate when a valid DMX signal is being received on the associated input.

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Specifications:

Baud rate:	250 Kilobaud
Input circuit:	EIA-485 receiver protected by two self resetting fuses 120 ohm input terminator protected by a self resetting fuse Four <i>transorb</i> diodes: two on +Data, two on -Data
Input signal:	0.5 volts minimum, 12 volts maximum Input can withstand up to 240 volts without damage, transients up to 5KV
Output circuit:	"Slew rate limited" EIA-485 driver protected by two self-resetting fuses (Slew rate limited outputs reduce the errors caused by unterminated lines)
Output signal:	EIA-485 driver yields an approximate 3 volt signal into 120 Ohms Outputs can withstand up to 12 volts without damage, transients up to 5KV
Connectors:	3 conductor pluggable terminal blocks, 5 pin XLR, or 3 pin XLR
Isolation:	2500 volt optical coupler, 5000 volt split bobbin transformer
Power input:	100 - 120 volts or 220 - 240 volts, 50/60 hertz, 0.1 amp (24 watts)
Color:	Silver hammertone with black front and rear panels
Size & Weight:	11.25" deep, 1.74" high, 8.25" wide, 4.9 pounds (19" rack adapter available) Wall Mount 2" deep, 8.5" high, 10.5" wide, 5 pounds Mounting Hole Locations 6" Vertical 9.5" Horizontal

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