DOUG FLEENOR DESIGN:

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DMX512 Enhanced Combine Unit

model: 221E - 621E technical data sheet



The DMX512 Combine unit solves the problem of combining multiple DMX input signals into a single DMX output signal. The most common configuration of the unit allows two consoles to control a single set of dimmers in a highest takes precedence or pile on mode. Examples of where this might be necessary include console/stage manager's console, primary console/backup

console, and where one console controls intensity of a moving light fixture while a second console is used for color and/or position. Units with up to six inputs are available. More than six inputs can be accommodated using a Master/Slave arrangement.

Units that patch and/or route the DMX dimmer channels are available for applications where two consoles control a single dimmer rack with loads in separate rooms. Such units prevent the operator in room "A" from bringing up the lights in room "B".

The custom possibilities based on the DMX512 Combine Unit are almost endless. We can accept Colortran Multiplex (CMX) on one or both inputs as well as output CMX. We can concatenate the two DMX inputs to form a 1024 dimmer look up table and output from that table in any order in DMX or CMX protocols. In fact we probably haven't thought of all the possibilities for this versatile product. If you have a custom need, give us a call. We like to talk with our customers.

SPECIFICATIONS

Baud rate: 250 Kilobaud

Input circuit: EIA-485 receiver with 120 ohm termination between +data and -data Input connectors: Gold plated 5 pin male (Neutrik D1 series) Terminal Block Optional

EIA-485 driver Output circuit:

Output connector: Gold plated 5 pin female (Neutrik D1 series) Terminal Block Optional

Input to output delay: 1/100 second average 1/50 second maximum

100 - 120 volts, 50/60 hertz, 12 watts (208 - 240 volt optional) Power input:

Power cord: Attached 5' 18/3 cord with parallel blade w/ ground plug.

Color: Silver hammertone with black front and back panels.

Size and weight: 11.25" deep, 1.74" high, 8.25" wide, 4.9 pounds

*All specifications meet or exceed DMX512 requirements

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DMX512 Combine Unit -- Selected Features

The following information is provided to assist you in determining if the DMX512 Combine Unit would be of benefit in your installation. If you have any questions, please feel free to call, write, or FAX us.

FEATURE	BENEFIT
Only one fiftieth of a second delay.	No visible delay. Bumps are fast. Fades are smooth
No user adjustments.	Easy "fool proof" installation.
Chassis is 1/10" powder coated aluminum.	Rugged and attractive for years of service.
Two 1/2" holes are provided for clamps,	Easily mounts to truss or pipes.
Carry handle allows access to connector	Output connectors are easy to release, even with gloves on. release tabs.
DMX pinouts are printed on the unit.	Assists in proper control wiring.
Uses standard 5 pin connectors.	Assures reliable connectability
All integrated circuits are socketed.	Eases field service
Power and input signal indicators	Simplifies system trouble shooting.
Dimmer 1 output level mimic.	Verifies data is being received correctly
Internal power supply.	No "wall wart" transformer to break off or come unplugged
Internally jumpered "hold" feature.	Allows unit to hold the last received levels indefinitely.
In the lighting industry since 1979.	We'll be here if you need us.
5 year warranty.	Peace of mind.

The DMX512 Combine Unit is based on a 20 MHz high performance microcontroller. The program is written in assembly language for maximum speed. The unit accepts any DMX signal: DMX512, DMX512/1990, 4 or 8 uS mark-after-break. The unit may be ordered to accept Colortran Multiplex on one or both inputs allowing the Unit to serve as a CMX to DMX combiner/converter. The unit may be ordered to output Colortran Multiplex allowing the Unit to serve as a DMX to CMX combiner/converter.

Meeting custom requirements is our specialty. If your needs are not met by a standard product, contact us for a quotation on your specific challenge.