

DMX512 to iPlayer 2 Interface

model: DMX2IPLAY
technical data sheet



The DMX512 iPlayer 2 interface receives a DMX512 input signal and outputs RS-232 commands to the iPlayer. The interface uses three consecutive DMX512 channels: Trigger mode, Show selection, and Global intensity.

The interface is compatible with iPlayer 2 and Light System Engine which are both products (and registered trademarks) of Color Kinetics Incorporated.

SPECIFICATIONS:

Input baud rate:	250 Kb/s
Input circuit:	ESD protected EIA-485 transceiver (LT1785)
Input signal:	3 volts minimum, 12 volts maximum
Input connector:	Gold plated 5 pin XLR (Neutrik D-1 series). Pin 1 = common, Pin 2 = Data-, Pin 3 = Data+.
Through connector:	Gold plated female 5 pin XLR (Neutrik D-1 series). All pins wired through.
DMX profile:	3 consecutive channels (trigger mode, show selection, global intensity)
Output baud rate:	9600 bps, 8 data bits, no parity, 1 stop bit
Output circuit:	RS-232 driver (MAX232) Outputs are short circuit protected but not over voltage protected.
Output signal:	RS-232 driver yields an approximate +/- 10 volt signal
Output connector:	DB9 (male) Pin 2 = Receive, Pin 3 = Transmit, Pin 5 = signal ground. (straight DB9 Male to Female, cable provided)
User interface:	Start address set via a three digit thumbwheel switch
Indicators:	Red power LED, Green DMX signal LED, Green RS-232 transmit LED
Power input:	Universal power supply 100 - 240VAC, 50/60 hertz, 5 watts
Color:	Black anodized
Size and weight:	Chassis 5.3"l X 3.2"w X 1.8"h, 12 ounces Power supply 2.2"l X 1.9"w X 1.0"h, 5 ounces

MANUFACTURER MEMBER

ESTA



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DMX512 to iPlayer 2 - Operation

Starting address: The interface's first channel (channel 1) is set using the three digit switch on the front panel. The interface's second channel (channel 2) is one greater than the starting address. The interface's third channel (channel 3) is two greater than the starting address.

Test mode: Setting the address switch to 601 will send the START SHOW #1 command to allow testing the RS-232 output without a DMX512 signal. Setting the address switch to 602 will send the START SHOW #2 command, etc. Valid test addresses are from 600 - 699. Setting the address switch to 600 will send the iPlayer blackout command (START SHOW #0). When in test mode the DMX signal indicator will flash.

Power indicator: The red power indicator illuminates when power is applied.

RS-232 Transmit indicator: The green transmit indicator illuminates each time a command is sent.

Signal indicator: The green signal indicator illuminates when a valid DMX signal is received. The indicator flashes when the interface is in test mode (Address switch set to 600 through 699).

DMX Channels:

<u>Channel</u>	<u>Function</u>
1	Trigger mode (AUTO, HOLD, SEND)
2	Show selection (0 through 225)
3	Global intensity (a.k.a. absolute intensity)

Channel 1 selects one of three trigger modes: AUTO, HOLD and SEND. It determines when the START SHOW command is sent.

In AUTO mode (channel 1 between 0% and 33%) any change of the show select channel (channel 2) results in an immediate command to the iPlayer to start that show. This is the normal operating mode.

In HOLD mode (channel 1 between 34% and 66%) show commands are not sent to the iPlayer. This allows the user to change the show select channel (channel 2) without affecting the currently playing show. This mode might be useful for a user to scroll through shows on a wheel or fader without affecting the live look.

SEND mode (channel 1 between 67% and 100%) sends a single command to the iPlayer to begin the show selected by the show select channel (channel 2). This allows the user to leave channel 1 in HOLD mode (50%) and use the console's Bump Button to go to the selected show.

Channel 2 sets the show number to be triggered. DMX values range from 0 to 255. Valid show numbers are 0 to 225. Each value represents a different show. DMX values from 226 to 255 are invalid and do nothing. The iPlayer's show #0 is always all fixtures off (blackout).

Control consoles that do not support setting DMX levels to values of 0 to 255 (consoles which display in percent only) will not work well with this interface. If this interface must be used with a "percentage only" control system, contact Doug Fleener Design for assistance.

Channel 3 sets the global intensity of the selected show (using the iPlayer's absolute intensity command). When channel 3 is set to 0 the iPlayer's intensity is set to zero. When channel 3 is set to 255 (100%) the iPlayer's intensity is set to full.