



## MODEL FD-128DMX - DMX CONTROLLED LED FIBER ILLUMINATOR

### FEATURES:

**SOLID STATE FIBER OPTIC ILLUMINATOR, NO HEAT, NO MOVING PARTS, NO MAINTENANCE  
QUALITY CONSTRUCTION, SMALL & LIGHTWEIGHT, RUGGED & RELIABLE, 5 VOLT OPERATION**

The FD-128DMX Fiber Optic Illuminator is based on an array of 128 super-bright white LED's and a computer micro-controller with a DMX interface. The unit creates animation in fiber optic displays without using motors, animation wheels, or any other moving parts by programmable illumination of the LED's in the array.

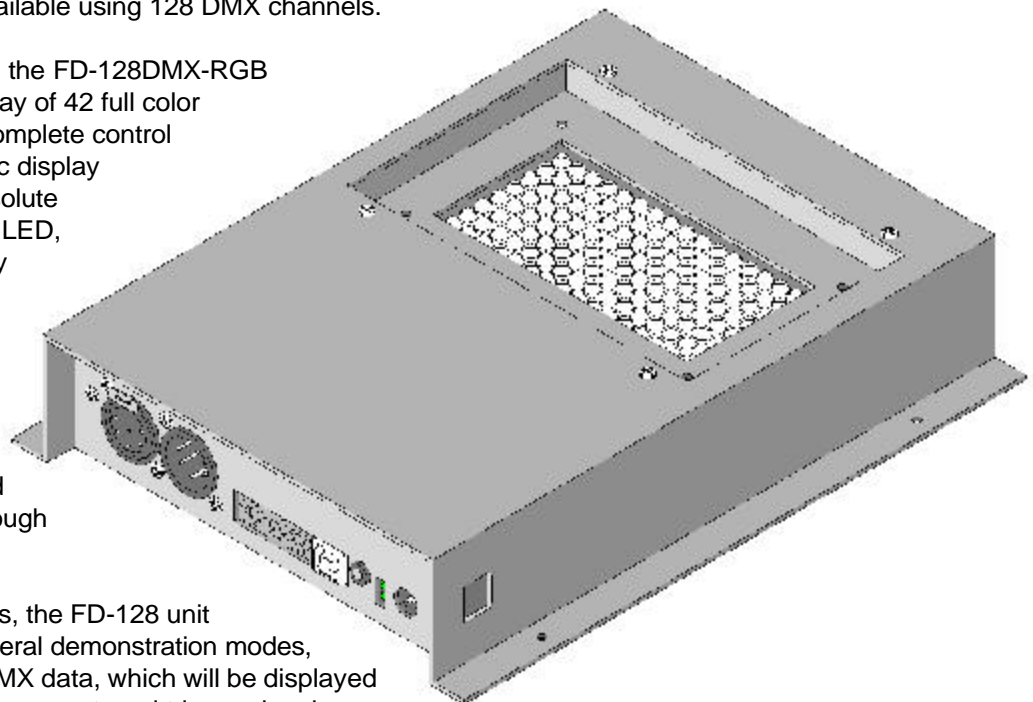
DMX control parameters determine the number of active and inactive LED emitters, the position and intensity of the active emitters within the array, and the rate and direction of animation across the array. Five DMX control options are available to provide comprehensive animation control as directed by the DMX programming.

Simple or complex sequential animation can be created using either 4 or 12 DMX channels. A dedicated "Twinkle" animation program directs the animation of star field displays using 6 DMX channels. Absolute control over each LED emitter in the array is available using 128 DMX channels.

For color display applications, the FD-128DMX-RGB version employs a smaller array of 42 full color LED emitters, which allows complete control over the color of the fiber optic display as well as the animation. Absolute control over the color of each LED, and master color and intensity control is available using 130 DMX channels.

Fiber optic displays of any size may be created by combining multiple illuminator modules controlled in common or individually through the DMX control interface.

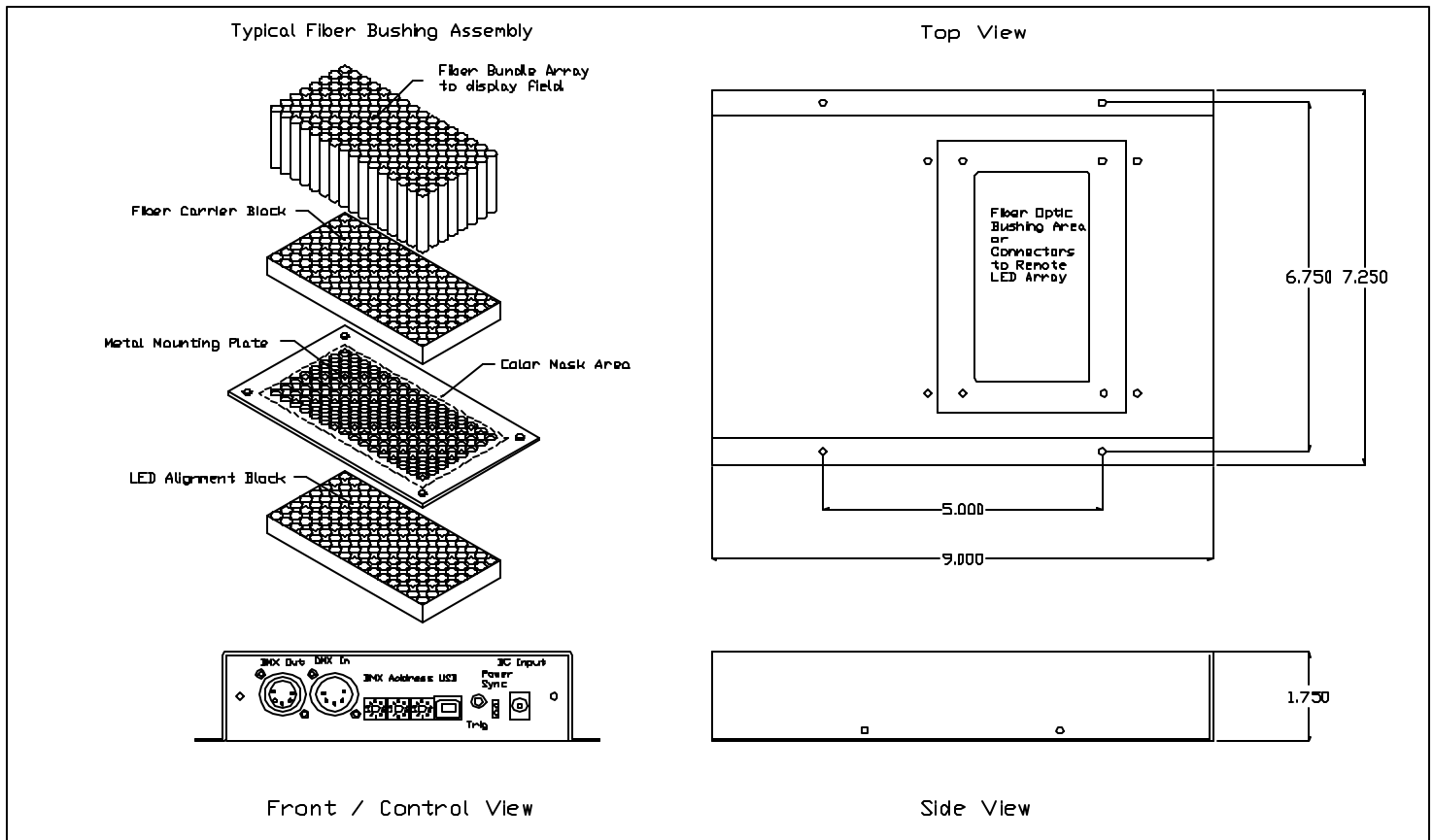
For "Stand-Alone" applications, the FD-128 unit can be operated in any of several demonstration modes, or can take a "snapshot" of DMX data, which will be displayed on power-up, or when called by an external trigger signal.



### ADVANTAGES OVER CONVENTIONAL ILLUMINATORS:

- Long lifetime, super-bright LED light sources eliminate lamp changes.**
- Low power consumption, less than 20 watts, no heat, no cooling fans, no dust contamination.**
- DMX controlled animation eliminates motors, cams, switches, and artwork disks or masks.**
- Small physical size, lightweight, rugged and durable, installs anywhere, minimizes fiber length.**

SPECIFICATIONS



**MECHANICAL:**

Housing: .060 Aluminum  
 Finish: Black Anodized  
 Mount: Any orientation, 4 x #6 screws  
 Weight: 1.5 lbs (.7 Kg)  
 Power Pack: .4 lbs. (.18 Kg)

**OPTICAL:**

White LED: 50,000 mcd typical intensity  
 8 x 16 array, 128 elements  
 RGB LED: 24,000 mcd typical intensity  
 6 x 7 array, 42 elements

**FIBER CAPACITY:**

Fiber Size	Cell	128 Cells	42 Cells
20 mil	85	10,880	3,570
30 mil	36	4,600	1,500
40 mil	18	2,300	750
60 mil	7	896	294

**ELECTRICAL:**

Input Voltage: 5 Volts DC, 15 watts maximum  
 Power Pack: UL Class II, 120 - 240 VAC 50/60 Hz.  
 DMX Input: DMX-512 standard, 5 pin XLR Male  
 DMX Output: DMX-512 standard, 5 pin XLR Female

**APPLICATIONS:**

Fiber optic displays and signs of any size  
 Fiber optic set pieces and special effects  
 Floats, specialty vehicles and custom automotive  
 Fiber optic costumes and stage wear  
 Fiber optic substitutes for pyrotechnic effects.

**OPTIONS AND ACCESSORIES:**

Optional LED colors, warm white, red, yellow, green, blue, etc.  
 Fiber optic carrier plates and mounting hardware  
 Protective sleeving for fiber bundles  
 Fiber optic ribbon for coherent displays, various sizes  
 Specialized programming for custom applications  
 Custom fiber optic assemblies and displays

