

RS232 to DMX Interface



**Now with
v2 firmware**

The bluecog RS232 to DMX interface box allows control systems and AV automation systems such as Crestron to control DMX based devices including LED lighting and moving lights.

A simple serial protocol allows full control of the output with a fast response time.

Onboard LEDs enable diagnostic monitoring.

A pluggable power supply connector allows simple connections between multiple units, or connection inline when used with a Crestron processor. A universal power supply allows operation from a 9—30v DC or AC supply.

Build in chases for use with three channel RGB fixtures simplify coding requirements.

Supplied with a 12v DC plugpack with connector and 1.8m RS232 cable.

Available in standard or flange mount

Applications

- > RGB LED colour mixing from a touch panel
- > Moving Light control
- > Use built in stand-alone colour chaser mode for testing or demonstration
- > Decorative lighting control
- > Theatrical Dimmer control
- > House Light control from the Automation system
- > Astronomical control of mood and colour
- > Building exterior lighting control

v2 Firmware

- > 8 x 64 channel presets
- > Better feedback from unit to controller

Technical Specifications

Power Supply

Voltage	9v—30v AC/DC
Power Connector	2 pole 5.08mm Phoenix Plug (supplied)

DMX Output

Connector	5 Pin Female XLR Connector
Pinout	1 GND 2 Data - 3 Data + 4, 5 NC
Refresh Rate	40Hz
Break Time	120uS
Packet Length	128 Channels

Indicators

Power On	Red LED
RS232 Comms	Green LED
DMX Comms	Green LED

Serial Interface

Serial Interface	RS232 Standard
Connector	DB9 Female
Handshake	CTS
Baud Rate	19200
Data format	8N1
RS232 Pinout	2 RS232 In 3 RS232 Out 5 GND 8 CTS

Order Code

Standard	232DMX
Flange Mount	232DMX-F Flange Mount



Crestron example programme and touch panel layout are available from our website.

Protocol Information

Data Format

[C][C]@[V][V][V]

CC is a channel value between 01 and 32.
VVV is a level value between 000 and 255.
Values must be padded with zeros to be the full number of characters. No delimiter is required.

If a message is sent that the unit does not understand the unit will ignore it.
All data is sent as ASCII Characters.

Channel 00 is used to trigger the internal chase routine on DMX channel 1, 2 and 3.
Speed is set with a level value of 001 for slow, 002 for medium and 003 for fast.
000 will cancel chase mode.
Sending any other channel message will also cancel the chase.

The units have an internal jumper to enable the chase at power up. This can create a stand alone colour scroll unit or be useful as a diagnostic test tool.

Message Examples

01@127	Channel 1 to 127 (50%)
00@002	Trigger Medium Fast Chase
15@255	Channel 15 to 255 (100%)



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