LIGHTEFX
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FOC-DMX-RS232 FOC-ILL-1001DMX – light box.

(set illuminator DIP switch "1" to "ON". All remaining DIP switches = "OFF")

Serial port settings: 9600 baud, 8 data bits, no parity, 1 stop bit, Carriage Return (CR)
String command to send: C**xxx**V**yyy**
(ASCII characters "C" and "V" are not case sensitive)

C***xxx*** = Replace '**xxx**' with Address Channel (3 digit number)
V***yyy*** = Replace '**yyy**' with Range Value (3 digit number)
stop = will set all channels to 000 value

Converter Status LED: Blue = On Green flash = string accepted Red flash = error

Address Channel	Range Value	Illuminator function
001	000	White
001	033	Light Blue
001	054	Green
001	075	Yellow
001	096	Blue
001	117	Violet
001	128	Extreme 6 colour rotation
001	160	Very Fast 6 colour rotation
001	180	Fast 6 colour rotation
001	200	Medium 6 colour rotation
001	220	Slow 6 colour rotation
001	255	Slowest 6 colour rotation
002	000	Static colour change speed
003	000	No Twinkle
003	032	Fast Twinkle rotation
003	100	Medium Twinkle rotation
003	150	Slow Twinkle rotation
003	255	Slowest Twinkle rotation
004	000	Lamp OFF
004	034	20% Bright
004	064	40% Bright
004	094	75% Bright
004	127	100% Bright
004	128	Fast strobe
004	200	Medium strobe
004	255	Slow Strobe

NOTES:
- C003 & C004 can be set anywhere between from 000 to 255 values.
- C002 should be set to 000 unless program scenes are required.

Required converter connectors.
USB type B male
Pin1. VCC +5v RED
Pin2. Data- Rx WHITE
Pin3. Data+ Tx GREEN
Pin4. GND BLACK

RS232 DB9 Female
(requires +12Vdc 1Amp power supply - 5.5x2.1mm)
Pin2. Rx WHITE
Pin3. Tx GREEN
Pin5. GND BLACK

DMX OUT: XLR 3 pin male
Pin1. GND SHIELD
Pin2. Data- BLACK
Pin3. Data+ RED

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FOC-DMX-RS232 **FOC-ILL-501DMX & FOC-ILL-502DMX light box.**
(set illuminator DIP switch "1" to "ON". All remaining DIP switches = "OFF")

Serial port settings: 9600 baud, 8 data bits, no parity, 1 stop bit, Carriage Return (CR)
String command to send: C**xxx**V**yyy**
(ASCII characters "C" and "V" are not case sensitive)

C***xxx*** = Replace '**xxx**' with Address Channel (3 digit number)
V***yyy*** = Replace '**yyy**' with Range Value (3 digit number)
stop = will set all channels to 000 value

Converter Status LED: Blue = On Green flash = string accepted Red flash = error

Address Channel	Range Value	Illuminator function
001	000	White
001	033	Light Blue
001	054	Green
001	075	Yellow
001	096	Blue
001	117	Violet
001	128	Extreme 6 colour rotation
001	160	Very Fast 6 colour rotation
001	180	Fast 6 colour rotation
001	200	Medium 6 colour rotation
001	220	Slow 6 colour rotation
001	255	Slowest 6 colour rotation
002	000	Static colour change speed
004	000	Lamp OFF
004	034	20% Bright
004	064	40% Bright
004	094	75% Bright
004	127	100% Bright
004	128	Fast strobe
004	200	Medium strobe
004	255	Slow Strobe

NOTES:
- C001 & C004 can be set anywhere between from 000 to 255 values.
- C002 should be set to 000 unless program scenes are required.

Required converter connectors.
USB type B male
Pin1. VCC +5v RED
Pin2. Data- Rx WHITE
Pin3. Data+ Tx GREEN
Pin4. GND BLACK

RS232 DB9 Female
(requires +12Vdc 1Amp power supply - 5.5x2.1mm)
Pin2. Rx WHITE
Pin3. Tx GREEN
Pin5. GND BLACK

DMX OUT: XLR 3 pin male
Pin1. GND SHIELD
Pin2. Data- BLACK
Pin3. Data+ RED

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FOC-DMX-RS232 **FOC-ILLIP44-8001DMX models**

(set illuminator DMX DISPLAY to "001")

-Press & hold "UP" & "DOWN" buttons together until the first digit on LED displays "0"

-Press either "UP" or "DOWN" button so "LED displays "001"

String command to send: CxxxVyyy

(ASCII characters "C" and "V" are not case sensitive)

C***xxx*** = Replace '**xxx**' with Address Channel (3 digit number)

V***yyy*** = Replace '**yyy**' with Range Value (3 digit number)

stop = will set all channels to 000 value

Converter Status LED: Blue = On Green flash = string accepted Red flash = error

Address Channel	Range Value	Illuminator function
001	020	White
001	040	Light Blue
001	060	Green
001	080	Yellow
001	100	Blue
001	120	Violet
001	140	Extreme 6 colour rotation
001	160	Very Fast 6 colour rotation
001	180	Fast 6 colour rotation
001	200	Medium 6 colour rotation
001	220	Slow 6 colour rotation
001	255	Slowest 6 colour rotation
002	000	Static colour change speed
003	000	No Twinkle
003	050	Extreme Twinkle
003	100	Fast Twinkle
003	150	Med Twinkle
003	200	Slow Twinkle
003	255	Slowest Twinkle
004	000	Lamp OFF
004	065	20% Bright
004	130	50% Bright
004	180	75% Bright
004	255	100% Bright

Address Channel	Range Value	Illuminator function
005	000	N/A
005	050	Extreme Strobe
005	100	Fast Strobe
005	150	Med Strobe
005	200	Slow Strobe
005	255	Very slow Strobe

NOTES:

- C001, C003. C004 & C005 can be set anywhere between from 000 to 255 values.
- C002 should be set to 000 unless program scenes are required.

Required converter connectors.

USB type B male
Pin1. VCC +5v RED
Pin2. Data- Rx WHITE
Pin3. Data+ Tx GREEN
Pin4. GND BLACK

RS232 DB9 Female
(requires +12Vdc 1Amp power supply - 5.5x2.1mm)
Pin2. Rx WHITE
Pin3. Tx GREEN
Pin5. GND BLACK

DMX OUT: XLR 3 pin male
Pin1. GND SHIELD
Pin2. Data- BLACK
Pin3. Data+ RED

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FOC-DMX-RS232 **FOC-ILLIP44-150-DMX & FOC-ILLIP44-250-DMX light box**

(set illuminator DMX DISPLAY to "001")

-Press & hold "UP" & "DOWN" buttons together until the first digit on LED displays "0"

-Press either "UP" or "DOWN" button so "LED displays "001"

String command to send: CxxxVyyy

(ASCII characters "C" and "V" are not case sensitive)

C***xxx*** = Replace '**xxx**' with Address Channel (3 digit number)

V***yyy*** = Replace '**yyy**' with Range Value (3 digit number)

stop = will set all channels to 000 value

Converter Status LED: Blue = On Green flash = string accepted Red flash = error

Address Channel	Range Value	Illuminator function
001	010	Blue
001	020	Green
001	040	Violet
001	050	Yellow
001	070	Light Blue
001	090	Light Green
001	100	Red
001	120	White
001	128	Fast 6 colour rotation
001	170	Medium 6 colour rotation
001	212	Slow 6 colour rotation
001	255	Slowest 6 colour rotation
002	000	Static colour change speed

NOTES:

- C001 can be set anywhere between from 000 to 255 values.
- C002 should be set to 000 unless program scenes are required.

Required converter connectors.

USB type B male
Pin1. VCC +5v RED
Pin2. Data- Rx WHITE
Pin3. Data+ Tx GREEN
Pin4. GND BLACK

RS232 DB9 Female
(requires +12Vdc 1Amp power supply - 5.5x2.1mm)
Pin2. Rx WHITE
Pin3. Tx GREEN
Pin5. GND BLACK

DMX OUT: XLR 3 pin male
Pin1. GND SHIELD
Pin2. Data- BLACK
Pin3. Data+ RED

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FOC-DMX-RS232 **FOC-ILL-431DMX – light box.**

(set illuminator DIP switch "1" to "ON". All remaining DIP switches = "OFF")

Serial port settings: 9600 baud, 8 data bits, no parity, 1 stop bit, Carriage Return (CR)
String command to send: C**xxx**V**yyy**
(ASCII characters "C" and "V" are not case sensitive)

C***xxx*** = Replace '**xxx**' with Address Channel (3-digit number)
V***yyy*** = Replace '**yyy**' with Range Value (3-digit number)
stop = will set all channels to 000 value

Converter Status LED: Blue = On Green flash = string accepted Red flash = error

Address Channel	Range Value	Illuminator function
001	0-255	Red
002	0-255	Green
003	0-255	Blue
004	0-255	White
005	0	Scene speed - Fast
005	255	Scene speed - Slow
006	0	Lamp – No light
006	127	Lamp – Bright
006	128	Lamp – Fast strobe
006	255	Lamp – Slow strobe
007	0-31	Twinkle – No twinkle
007	32	Twinkle – Fast
007	255	Twinkle – Slow

Required converter connectors.
USB type B male
Pin1. VCC +5v - RED
Pin2. Data- Rx - WHITE
Pin3. Data+ Tx - GREEN
Pin4. GND - BLACK

RS232 DB9 Female
(requires +12Vdc 1Amp power supply - 5.5x2.1mm)
Pin2. Rx - WHITE
Pin3. Tx - GREEN
Pin5. GND - BLACK

DMX OUT: XLR 3 pin male
Pin1. GND SHIELD
Pin2. Data- BLACK
Pin3. Data+ RED

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FOC-DMX-RGB

DMX2RGB converter will use the DMX address assigned via the dip switches for the output LED channels
(Dip switch #10 must always be in the "UP" or "OFF" position)

DIP switches channel addressing:

Dip switch "ON"	DMX ADDRESS	LED OUTPUT
1	001	CH1
	002	CH2
	003	CH3
1,2,3	007	CH1
	008	CH2
	009	CH3
2,5	018	CH1
	019	CH2
	020	CH3
7,2	068	CH1
	069	CH2
	070	CH3

DIP SWITCHES:
1 2 3 4 5 6 7 8
SWITCHES VALUE
1 2 4 8 16 32 64 128

Example:
Dip switch "ON": 7,2 = 64+2 = 68 DMX address

INPUT: connection
V+,V-: +12Vdc 8A/CH or +24Vdc 4A/CH
DMX IN: XLR 3pin female

OUTPUT: LED connection
COM = LED lamp 1,2 & 3 +Positive
CH1 = LED lamp 1 -Negative
CH2 = LED lamp 2 -Negative
CH3 = LED lamp 3 -Negative

NOTE: The output LED voltage will be the same voltage as Input V+,V-