

SPECIFICATION  
**RS232-DMX ADAPTER**

CONVERSION INTERFACE

PROJECT	DATE
TYPE	QTY



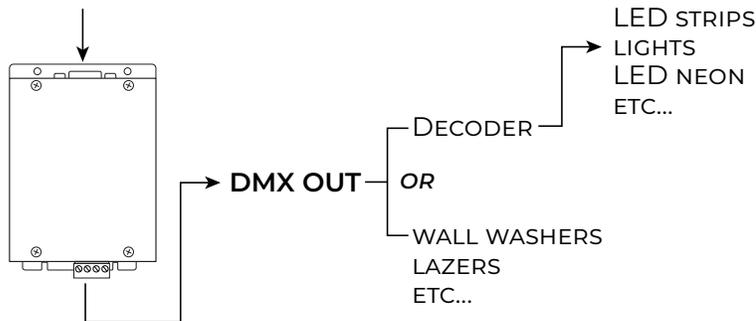
RS-232 TO DMX ADAPTER

**KEY FEATURES:**

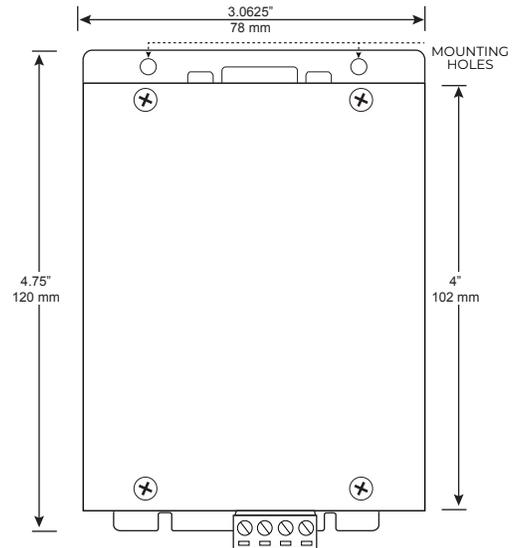
- Power Input: DC 9-12V
- Signal Input: RS-232
- Signal Output: DMX-512
- Weight: 220g

**SERIAL INPUT**

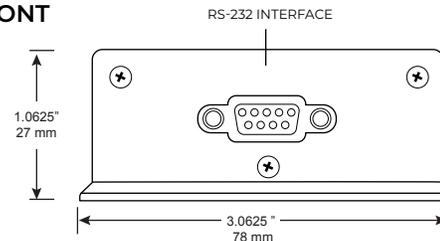
- 3RD PARTY CONTROL
- COMPUTER
- ETC...



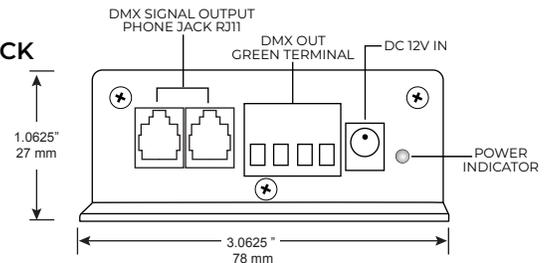
**THE RS-232 - DMX ADAPTER** is the ideal tool for allowing control systems to integrate by incorporating low voltage LED lighting. Using this adapter will allow a standard control system receiving an RS-232 signal from a master control system to convert into a DMX signal which can then be routed through DMX decoders to control low voltage lighting.



**FRONT**



**BACK**



**ORDERING**

MODEL

**IL-S2DMX**

RS-232 TO DMX ADAPTER

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**1 - BAUD RATE SETTING**

**BAUD RATE SETTING:** "19200, N, 8, 2"  
 19200 --- Baud rate  
 8 --- 8 data bits  
 2 --- 2 stop bits

When you use VB to program,  
 please use the command below:  
 MSCComm1.Settings = "19200, N, 8, 2"

**2 - SETTING DIMMING VALUE OF ONE CHANNEL**

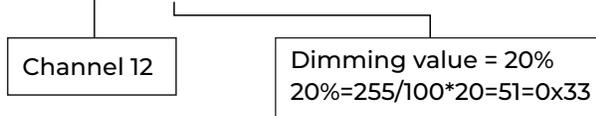
**SETTING DIMMING VALUE ON ONE CHANNEL:**  
 0H-11H-Ard\_High\_Low\_Low-Value-00H-5H

To set dimming value of DMX address 12(0CH) as 20% (33H)  
 please use the command as below:

0H-11H-1H-0H-5H-80H-0H-0H-5H

To set dimming value of DMX address 12(0CH) as 20% (33H)  
 please use the command as below:

0H-11H-1H-0H-0CH-33H-0H-0H-5H



**Ard\_High:** DMX address MSB  
**Ard\_Low:** DMX address LSB

**For example:**  
 DMX Address=278: Ard\_High=01H · Ard\_Low=17H  
 DMX Address=20: Ard\_High=0H · Ard\_Low=14H

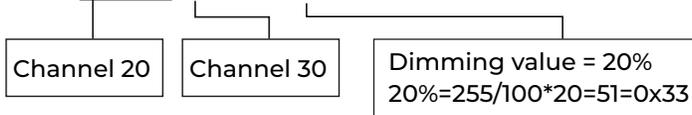
**Value:** dimming value  
**If the dimming value is 20%,  
 the calculation method is as below:**  
 Change 20% to decimal system is 20/100\*255=51;  
 Change 51 to hexadecimal system is 51->33H

**3 - SETTING DIMMING VALUE OF CONTINUOUS CHANNELS (EACH CHANNEL HAS SAME DIMMING VALUE)**

**SETTING DIMMING VALUE OF CONTINUOUS CHANNELS:**  
 (EACH CHANNEL HAS SAME DIMMING VALUE)  
 0H-11H-2H-First\_High\_First\_Low-End\_High-End\_Low-Value-5H

To set dimming value of DMX address from 3 to 15 as 50%(80H)  
 please use the command as below:  
 0H-11H-2H-0H-3H-0H-FH-80H-5H

To set dimming value of DMX address from 20 to 30 as 20% (33H)  
 please use the command as below:  
 0H-11H-2H-0H-14H-0H-1EH-33H-5H



**First\_High:** DMX start address MSB  
**Ard\_Low:** DMX start address LSB

**First\_High:** DMX last address MSB  
**Ard\_Low:** DMX last address LSB

**Value:** dimming value

**For example: switch off all DMX address from 1 to 512,  
 please use the command as below:**  
 0H-11H-2H-0H-1H-2H-0H-0H-5H

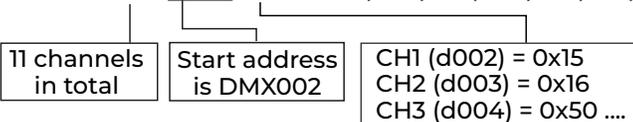
**4 - SETTING DIMMING VALUE OF CONTINUOUS CHANNELS (CHANNELS HAVE A DIFFERENT DIMMING VALUE)**

**SETTING DIMMING VALUE OF CONTINUOUS CHANNELS:**  
 (THE CHANNELS HAVE A DIFFERENT DIMMING VALUE)  
 0H-11H-3H-Total\_CH-First\_High-First\_Low-CH1-CH2-CH3- ....

To set dimming value of DMX address from 3 to 6 as 10H, 25H, 32H, 47H  
 please use the command as below:  
 0H-11H-3H-4H-0H-3H-10H-25H-32H-47H

To set dimming value of DMX address from 2 to 12 as 15H, 16H,  
 50H, 60H, 80H, EFH, FFH, 23H, 67H, 26H, 83H separately,  
 please use the command as below:

0H-11H-3H-0BH-0H-2H-15H-16H-50H, 60H, 80H, EFH, FFH, 23H, 67H, 26H, 83H



**Total CH:** total channel numbers in command  
**First\_High:** DMX start address MSB  
**First\_Low:** DMX start address LSB  
**CH1:** dimming value of start channel  
 (start channel is DMX002 in this example)  
**CH2:** dimming value of second channel  
 (second channel is DMX003 in this example)  
**CH3:** dimming value of third channel  
 (third channel is DMX004 in this example)