DMX Decoder

5-Channel 12/24VDC Specification Sheet

GMLighting®

Project Name	Type
Catalog #	Date

RDM DMX | 12/24 VOLT | FC | 3 Yr. WARRANTY

PRODUCT OVERVIEW

Our DMX Decoder supports DMX512/RDM signal for bi-directional communication while achieving remote management of reading and writing DMX address. Equipped with DMX standard XLR-3, RJ45 and wire terminal interface and 100% to 1% dimming or other lighting effects. Workable with all 12/24V tape.

FEATURES

- DMX995 Socket: XLR-3, RJ45, Green Terminal
- Dimming Range: 100% to 1% dimming
- 5-channels / 12V/24V
- Works with Single Color, Tunable White, RGB, RGBW, RGBTW sources
- Self-testing



DMX-LT-995

SPECIFICATIONS

ELECTRICAL
- Input Signal: DMX512/RDM
- Input Voltage: 12/24VDC
- Current Load: Max. 4A
- Max Output Power: Up to 96W for Class 2 operation

OPERATING TEMP
- -4 to 122°F (-20 to +50°C)

CERTIFICATION
- FCC, CE, RoHS, UL Recognized for US and Canada

WARRANTY
- 3-year warranty



DMX-TR-5

ORDERING INFORMATION

Model	Description
DMX-LT-995	1 to 5-Channel DMX Decoder
DMX-TR-5	DMX Terminator Resistor 120 Ohm, 1/4 Watt, 5 pcs

NOTE: Use with non-dimmable or other approved power supply. Must use a Terminating Resistor with all installations. Must use a GM wall control, below or other DMX compatible Master Control



RGBW-DMX-WC

WALL CONTROL OPTIONS

Model	Description
RGBW-DMX-WC	DMX512 Wall Controller
WC1-SC-DMX-BT	Black Wall Control 1-Channel DMX, Bluetooth App
WC2-TW-DMX-BT	Black Wall Control 2-Channel DMX, Bluetooth App
WC4-RGBW-DMX-BT	Black Wall Control 4-Channel DMX, Bluetooth App
WC5-RGBTW-DMX-BT	Black Wall Control 5-Channel DMX, Bluetooth App

NOTE: Wall mounted Master Control and LED load must have the same number of channels. See wall plate specifications and instructions for more detail.



1, 2, 4, & 5-CHANNEL BLACK WALL CONTROLLERS

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APPROVED POWER SUPPLY OPTIONS

NOTE: Use power supplies with **UNDIMMED INPUTS** when powering controls for trouble free operation. Must match output voltage (12VDC or 24VDC) to the voltage of the LED source for proper operation.

LD-XD SERIES

Product No.	Description
LD-XD-UNV20-12	12VDC — 20W — 120V or 277V — 50/60Hz — 1.67 amps
LD-XD-UNV40-12	12VDC — 40W — 120V or 277V — 50/60Hz — 3.33 amps
LD-XD-UNV60-12	12VDC — 60W — 120V or 277V — 50/60Hz — 5 amps
LD-XD-UNV180-12	12VDC — 180W — 120V or 277V — 50/60Hz — 5 amps/channel (3)
LD-XD-UNV20-24	24VDC — 20W — 120V or 277V — 50/60Hz — 0.83 amps
LD-XD-UNV40-24	24VDC — 40W — 120V or 277V — 50/60Hz — 1.67 amps
LD-XD-UNV60-24	24VDC — 60W — 120V or 277V — 50/60Hz — 2.5 amps
LD-XD-UNV96-24	24VDC — 96W — 120V or 277V — 50/60Hz — 4 amps
LD-XD-UNV200-24	24VDC — 200W — 120V or 277V — 50/60Hz — 4 amps/channel (2) 2 x 96W channel
LD-XD-UNV300-24	24VDC — 300W — 120V or 277V — 50/60Hz — 4 amps/channel (3) 3 x 96W channel
Please see our website for updated power supply specifications and information.	

For hardware applications with multi-voltage inputs. Multiple output configurations and wattages for larger installations.



LTP SERIES

For 120V plug-in applications on small systems. Low profile power supply case.

Model	Description
LTP24-48	24VDC - 48W - 2 amps - 120V - 120V cord (72") and plug
LTP24-90	24VDC - 90W - 3.75 amps - 120V - 120V cord (72") and plug
LTP-2	12VDC - 24W - 2 amps - 120V - 120V cord (72") and plug
LTP-6	12VDC - 60W - 5 amps - 120V - 120V cord (72") and plug
Please see our website for updated power supply specifications and information.	



PSD SERIES

For 120V hardwire applications on small systems. Low profile power supply case.

Model	Description
PSD15-12	12VDC — 15W — 120V — 50/60Hz — 1.25 amps
PSD15-24	24VDC — 15W — 120V — 50/60Hz — 1.25 amps
PSD24-12	12VDC — 24W — 120V — 50/60Hz — 2.0 amps
PSD24-24	24VDC — 24W — 120V — 50/60Hz — 2.0 amps
PSD60-12	12VDC — 60W — 120V — 50/60Hz — 5.0 amps
PSD60-24	24VDC — 60W — 120V — 50/60Hz — 2.5 amps
PSD90-24	24VDC — 90W — 120V — 50/60Hz — 3.75 amps
Please see our website for updated power supply specifications and information.	



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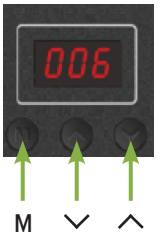
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DIAGRAM



Digital Display



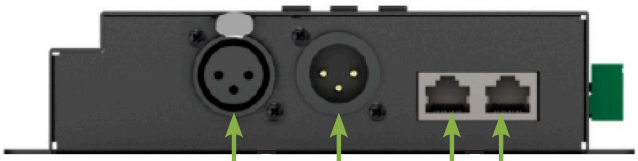
- Display will enter the locked mode without operating after 15s.
- Long press "M" key to unlock.
- Short press "M" key to switch numbers.
- Press "﹀" or "∧" key to adjust value.

Dip Switch



RECOMMENDED SETTINGS

1 Bit	2 PWM Hz	3 DIM	4 Screen
16	*High (4000Hz)	*Smooth	30s off
8	Low (500Hz)	Std	Enable



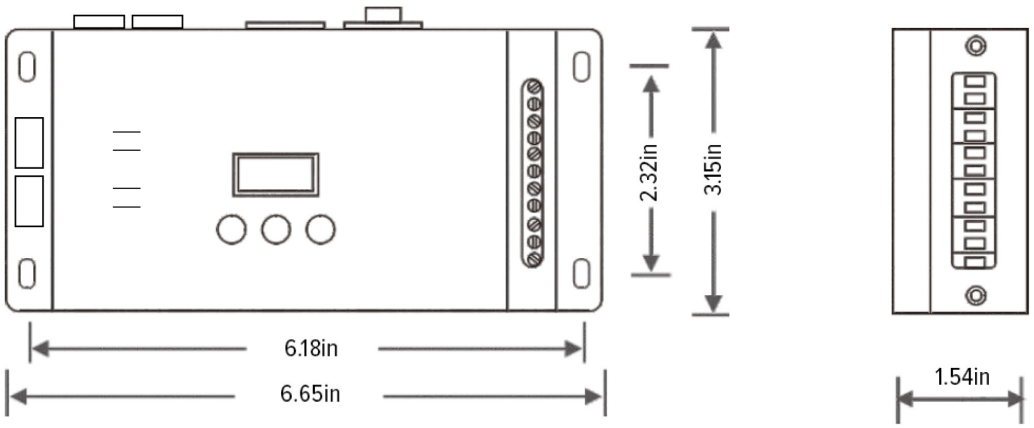
120 Ohm
DMX Cable
XLR-3 (3-pin)
Conections

CAT-5e/6/6a Cable
RJ45 Connections

WARNING: Audio cable with XLR-3 connectors will not work with DMX systems.

DIP Switch Notes:
For all switches DOWN is factory default.
Switch 1: Keep 8 Bit with GM wall mounted Master Controls. Other Master Controls may require 16 Bit.
Switch 2: *PREFERED: Use "High" 4000Hz setting for low flicker operation.
Switch 3: *PREFERED: Use "Smooth" setting for a slow, smooth transition.
Switch 4: Enable the screen when setting up the decoder for easy reference.

DIMENSIONS



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NOTE: Power input and LED ouput connections not shown. Terminating resistor **MUST BE USED** only on the decoder at the end of each run for proper operation.

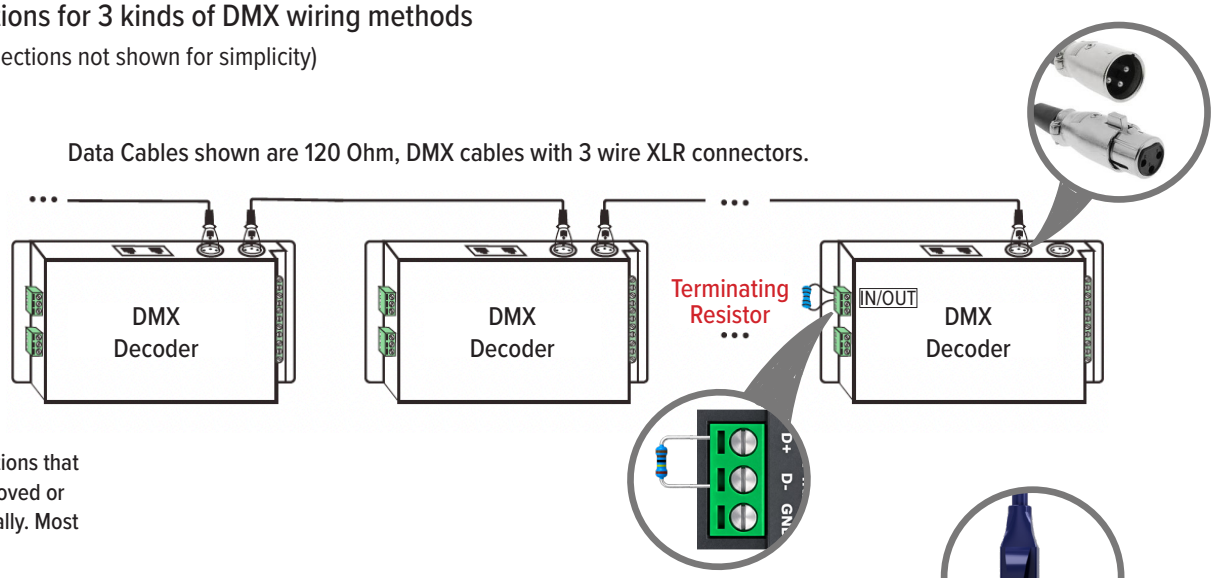
WIRING DIAGRAMS

Data line connections for 3 kinds of DMX wiring methods

(Power and LED connections not shown for simplicity)

3-Pin XLR connections

Data Cables shown are 120 Ohm, DMX cables with 3 wire XLR connectors.

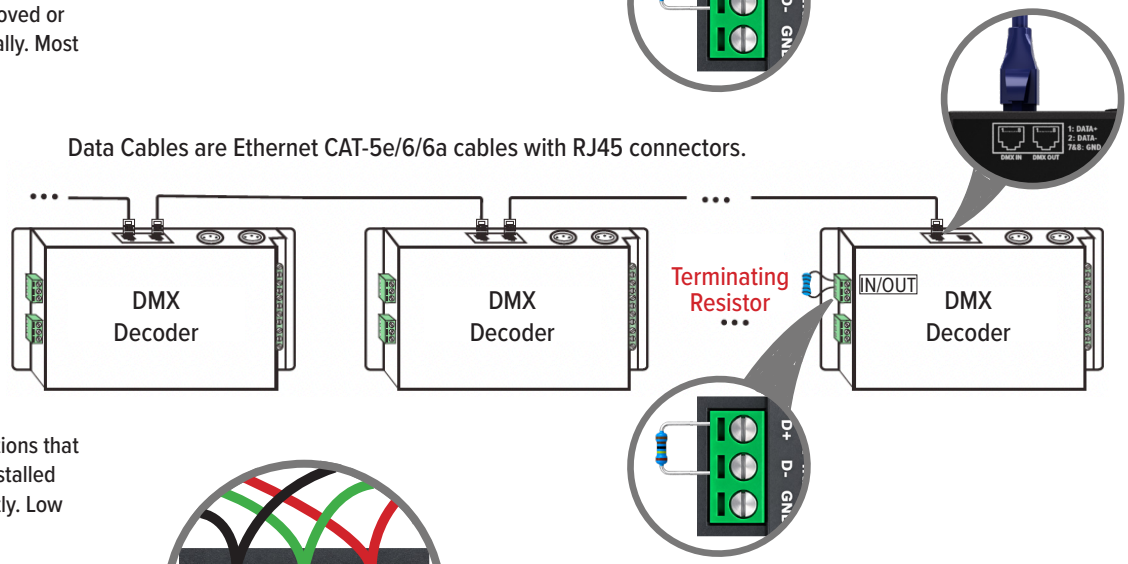


BEST USE: For applications that require cables to be moved or disconnected periodically. Most durable.

RJ45 connections

(Recommended)

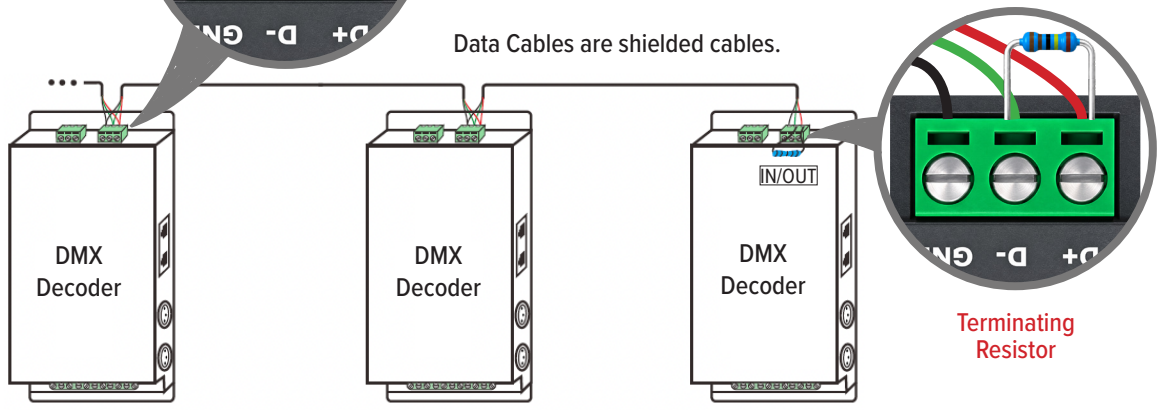
Data Cables are Ethernet CAT-5e/6/6a cables with RJ45 connectors.



BEST USE: For applications that require cables to be installed quickly and permanently. Low cost and most reliable.

Green terminal connections

Data Cables are shielded cables.



BEST USE: For applications that require cables to be connected permanently. Low cost and reliable.

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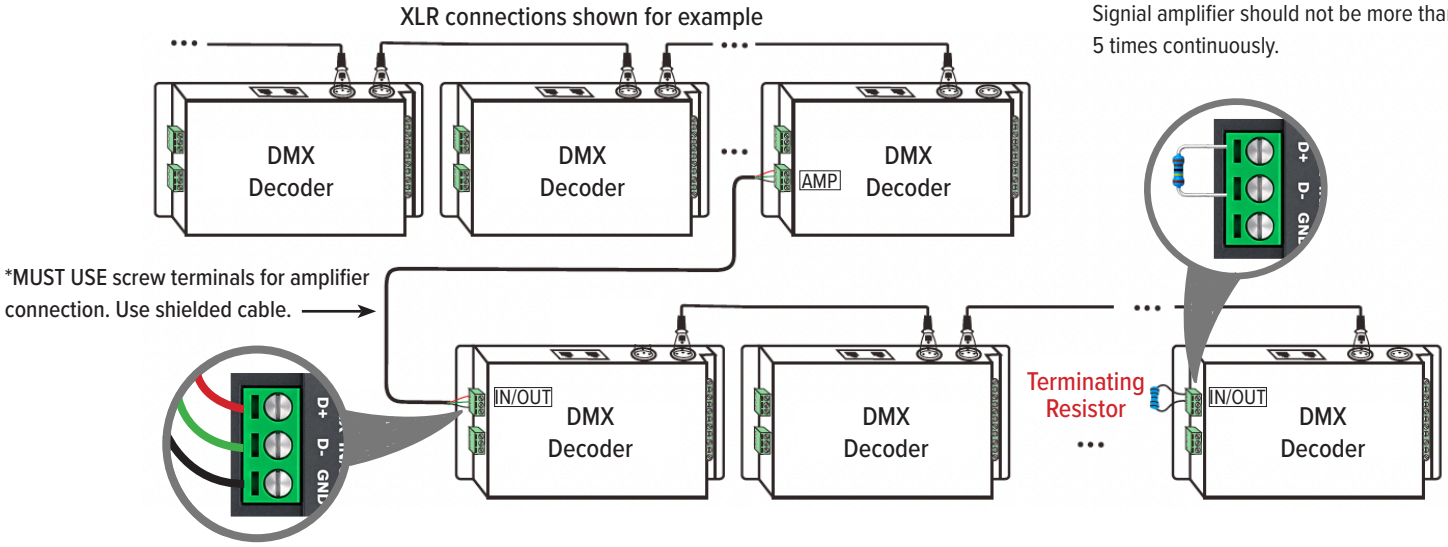
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NOTE: Connecting with green terminal or an extra amplifier will be needed when more than 32 decoders are connected or use overlong signal wire (as shown here). Signial amplifier should not be more than 5 times continuously.

Connection diagram of AMP signal amplifier terminal



WALL CONTROLLER WIRING DIAGRAM



WALL CONTROLLER

RGBW-DMX-WC shown

(Can use any compatible Master Control)

See DMX Technical Guide for more wiring details.

See DMX Wiring Diagrams in instructions for specific power supply and LED wiring details.

NOTE: Use nondimmable or approved power supply

Must match output voltage to LED load voltage (12V or 24V).

4 Channel LED source and RJ45 connections shown for example.
Decoder can power and control 1 to 5 channel LED light sources.

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