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DMX512 DECODER
LT-995-OLED
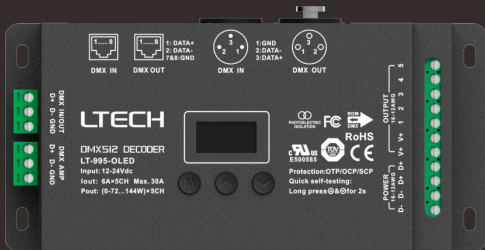
5 CHANNELS

OLED display
8 bit / 16 bit
3 kinds of DMX interfaces
Dimming curve: 0.1~9.9
Short circuit / Over current / Over-heat protection

RDM
DMX

Photoelectric isolation

DMX IN   DMX OUT   1: DATA+
                     2: DATA-
                     7&8: GND

DMX IN   1: GND   DMX OUT
          2: DATA-
          3: DATA+

DMX IN/OUT
D+ D- GND

DMX AMP
D+ D- GND

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DMX512 DECODER
LT-995-OLED
Input: 12-24Vdc
Output: 6A×5CH Max. 30A
Pout: (0-72...144W)×5CH

PHOTOELECTRIC ISOLATION

FC

RDM
DMX

RoHS

E300585

CE

Protection:OTP/OCP/SCP
Quick self-testing:
Long press⑥&for 2s

OUTPUT

POWER

Product Introduction

1. Designed with 5 channels output, and Max. 6A current per channel, up to 720W output power.

2. Easy operation with OLED screen and the touch buttons.

3. 5 kinds of mode optional: Dim, CT, RGB, RGBW, RGBWY.

4. Support 3 kinds of DMX ports with signal isolation function: 3-pin XLR, RJ45 and green terminal (with signal amplifier function).

5. With RDM remote management protocol, the operations can be completed via the RDM master console, such as parameters browsing & setting, DMX address setting, equipment recognition, etc.

6. With firmware upgrade function.

7. With short circuit, over current and over-heat protection, as well as warning function when fault.

8. With power-on state management and fast self-testing function.

9. 16bit (65536 levels) / 8bit (256 levels) grey level optional.

10. Optional for standard, linear, LOG or custom 0.1-9.9 dimming curve.
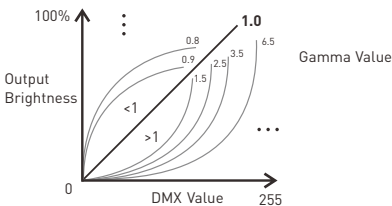

| 3-pin XLR | RJ45 | RDM | Photoelectric isolation | Short circuit Protection | Over current protection | Over-heat protection | Display |

Technical Specs

Model:	LT-995-OLED
Input Signal:	DMX512/RDM
Input Voltage:	12~24Vdc
Current Load:	6A × 5CH Max. 30A
Output Power:	(0~72W...144W) × 5CH Max. 720W
DMX Interface:	3-pin XLR, RJ45, green terminal
Control Mode:	DIM/CT/RGB/RGBW/RGBWY
Dimming Curve:	0.1~9.9
Grey Level:	8bit (256 levels) / 16bit (65536 levels)
Photoelectric Isolation:	Yes
Protection:	Short circuit / Over current / Over-heat protection, recover automatically
Working Temperature:	-30°C~65°C
Dimensions:	L169×W80×H39mm
Package Size:	L182×W91×H41mm
Weight (G.W.):	550g

Unit: mm

157
169
59
80
39

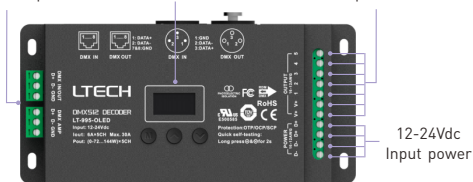cULus E500585   TUV SÜD   FC   CE   RoHS   5-Year Warranty
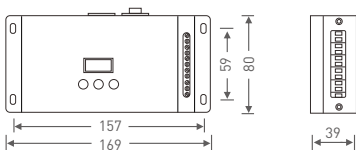
Main Component Description

Green terminal
DMX/RDM
input & output

OLED screen

Green terminals
LED lamps connection

12-24Vdc
Input power

3-pin XLR
DMX/RDM
input & output

RJ45
DMX/RDM
input & output

OLED Screen Interface

Press "M" key, switch entries.
Long press "M" key, back to main page.
Press "∧" or "∨" key, parameter adjustment.
Exit: back to previous page.

M   ∧   ∨

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1. DMX Address Setting

```
DMX: 001    Hz: High
Mode: RGB       8bit
Curve: Standard
Dim: Smo    TOOL&v
```
Main page

Press "∧" or "∨" key to set DMX address.
Range: 001~512

2. PWM Frequency

```
DMX: 001    Hz: High
Mode: RGB       8bit
Curve: Standard
Dim: Smo    TOOL&v
```

Press "∧" or "∨" key to choose.
Option :

No flicker in video camera.

Std (standard)
High
Mid (middle)
Low

Smooth and delicate, human eye is comfortable.

＊It is recommended to use standard.

3. Mode

```
DMX: 001    Hz: High
Mode: RGB       8bit
Curve: Standard
Dim: Smo    TOOL&v
```

Press "∧" or "∨" key to choose.
Option:
DIM / CT / CT2 / RGB / RGBW / RGBWY

4. Grey Level

```
DMX: 001    Hz: High
Mode: RGB       8bit
Curve: Standard
Dim: Smo    TOOL&v
```

Press "∧" or "∨" key to choose.
Option : 8bit
16bit (choose it if the master controller support this function)

5. Dimming Curve

```
DMX: 001    Hz: High
Mode: RGB       8bit
Curve: Standard
Dim: Smo    TOOL&v
```

Press "∧" or "∨" key to choose.

Option : Standard
Linear
Log
0.1~9.9

It is recommended to use standard, 0.1-9.9 is for special requirements.

4

6. Enhance Dimming

```
DMX: 001    Hz: High
Mode: RGB      8bit
Curve: Standard
Dim: Smo    TOOL&V
```

Press "∧" or "∨" key to choose.

Option : Std (standard)

Smo (smooth)

　　✻ It is recommended to
　　　　use standard.

Smo: This option with smooth processing,
　　　realize the dimming flicker-free and
　　　dynamic effects more downy.

7. Tool

```
DMX: 001    Hz: High
Mode: RGBW     8bit
Curve: Standard
Dim: Smo    TOOL&V
```

Press "∧" or "∨" key to enter submenu.

```
Screen: ON+Addr
Contrast: 40%
Beep: ON      TEST&V
              EXIT&V
```

Press "∧" or "∨" key to enter submenu of test.

```
CH1: 255    CH2: 255
CH3: 255    CH4: 255
CH5: 255    ALL: 255
            EXIT &V
```

Brightness setting (range: 0~255)

Press"∨" to exit

001

Screen: ON+Addr

Screensaver open and display address if undo for 2 minutes.

Screen: ON+black

Screensaver open and black if undo for 2 minutes.

```
DMX: 001    Hz: High
Mode: RGBW     8bit
Curve: Standard
Dim: Smo    TOOL&v
```
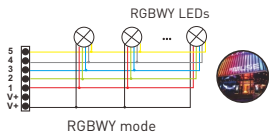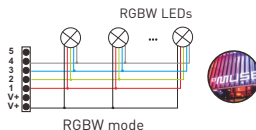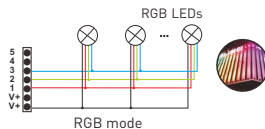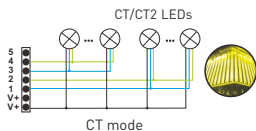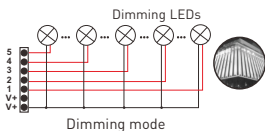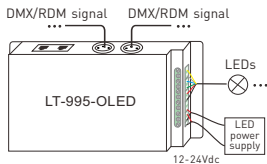
Screen: OFF

Screensaver not enable.

✻ Fast self-testing function: press "∧"or "∨" keys simultaneously for 2-3 seconds under any page, decoder will enter self-testing function.

Wiring Diagram

1.Connecting LED lights:

DMX/RDM signal   DMX/RDM signal

LEDs

LT-995-OLED

LED power supply

12~24Vdc

Dimming LEDs

5 4 3 2 1 V+ V+

Dimming mode

CT/CT2 LEDs

5 4 3 2 1 V+ V+

CT mode

RGB LEDs

5 4 3 2 1 V+ V+

RGB mode

RGBW LEDs

5 4 3 2 1 V+ V+

RGBW mode

RGBWY LEDs

5 4 3 2 1 V+ V+

RGBWY mode

2. DMX console connection:
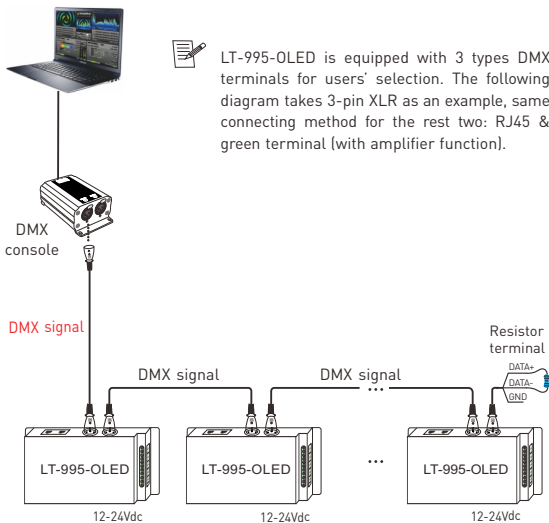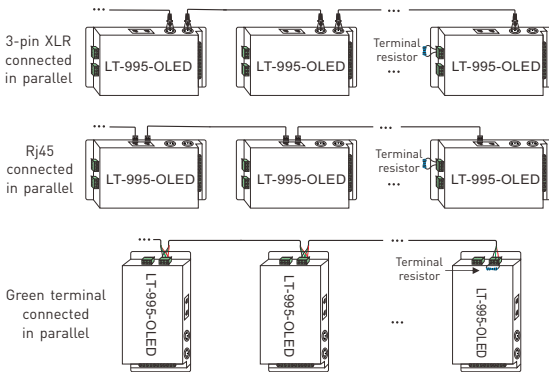

LT-995-OLED is equipped with 3 types DMX terminals for users' selection. The following diagram takes 3-pin XLR as an example, same connecting method for the rest two: RJ45 & green terminal (with amplifier function).

DMX console

DMX signal

Resistor terminal
DATA+
DATA-
GND

DMX signal   DMX signal

LT-995-OLED   LT-995-OLED   LT-995-OLED

12-24Vdc   12-24Vdc   12-24Vdc

* An amplifier is needed if more than 32 decoders are connected or use overlong signal line, signal amplification should not be more than 5 times continuously.

* If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each line.

3. The connection diagram of 3 kinds of DMX/RDM terminals:

3-pin XLR connected in parallel — LT-995-OLED | LT-995-OLED | Terminal resistor · LT-995-OLED

Rj45 connected in parallel — LT-995-OLED | LT-995-OLED | Terminal resistor · LT-995-OLED

Green terminal connected in parallel — LT-995-OLED | LT-995-OLED | Terminal resistor · LT-995-OLED

These 3 terminals can be connected in a mixed way.

4. The connection diagram of AMP signal amplifier terminal:

＊ 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 below). Signal amplifier should not be more than 5 times continuously.
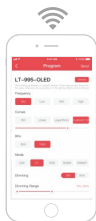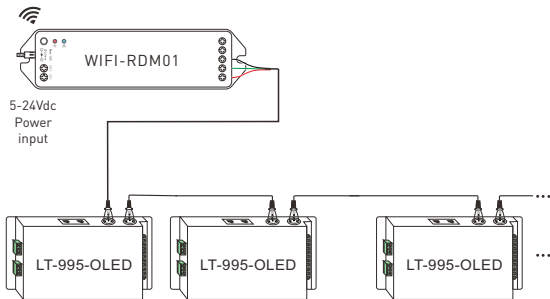

LT-995-OLED | LT-995-OLED | LT-995-OLED

AMP

LT-995-OLED | LT-995-OLED | LT-995-OLED   Terminal resistor

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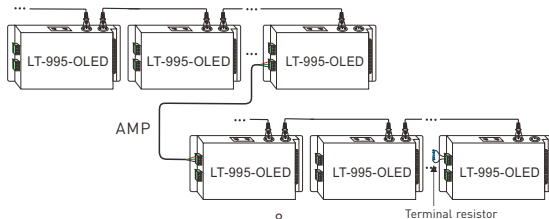
Address setting table

Mode	DIM	CT/CT2	RGB	RGBW	RGBWY
Address Quantity	1	2	3	4	5
Resolution	8bit	8bit	8bit	8bit	8bit
Channel 1	001	001	001	001	001
Channel 2	001	002	002	002	002
Channel 3	001	001	003	003	003
Channel 4	001	002	003	004	004
Channel 5	001	002	003	004	005

| Mode	DIM	CT/CT2	RGB	RGBW	RGBWY
Address Quantity	2	4	6	8	10
Resolution	16bit	16bit	16bit	16bit	16bit
Channel 1	001 002	001 002	001 002	001 002	001 002
Channel 2	001 002	003 004	003 004	003 004	003 004
Channel 3	001 002	001 002	005 006	005 006	005 006
Channel 4	001 002	003 004	005 006	007 008	007 008
Channel 5	001 002	003 004	005 006	007 008	009 010

Work with RDM Editor

LT-995-OLED can work with LTECH RDM editor (Model: WiFi-RDM01) to realize changing the parameters by long-range setting, wiring diagram as below:

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RDM Editor APP Interface Instructions

Download the APP, setting the LT-995-OLED parameters (frequency, bit, curve, modes, dimming range, screensaver, etc.) after well connecting the RDM editor, more details, please check the manual of WiFi-RDM01.

Well installation of products first, then working with WiFi-RDM01 to realize setting parameters and firmware upgrade by APP.

WiFi-RDM01 upgrade
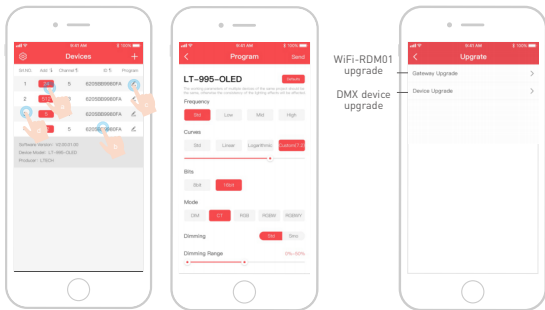
DMX device upgrade

a: Click"Add", edited the address in corresponding box.
b: Click"ID", get more product details.
c: Click" ✎ ", enter edited interface.
d: Click"No.", issue the recognizing command.

Supporting WiFi-RDM01 upgrade and DMX driver upgrade.

＊This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

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