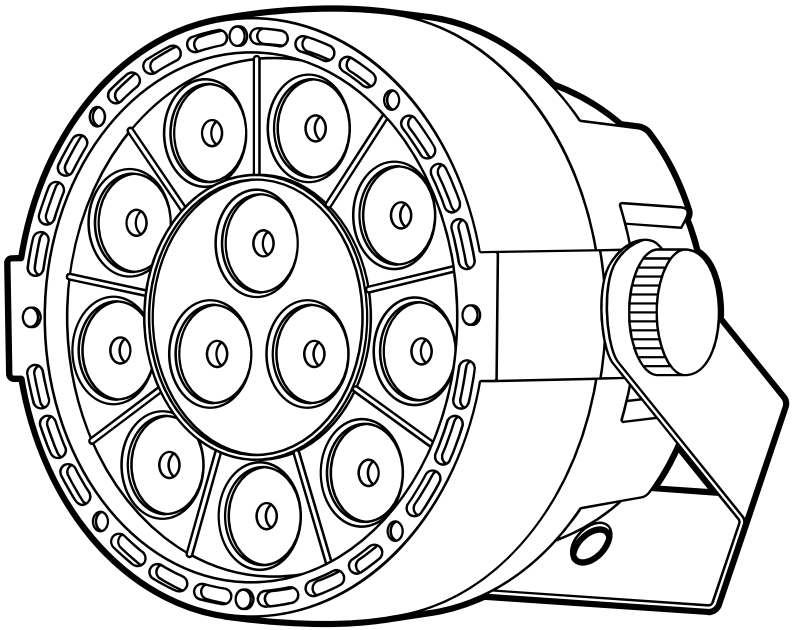
talent™

SOUND & LIGHTING



LINKABLE

STAND ALONE

SOUND ACTIVATED

DMX512

RGBW LED Mini Par Stage Light 12 × 1W

Model: MP112

User Manual

www.talentaudio.com

Thank you for purchasing the Talent MP112 RGBW LED Mini Par Stage Lighting Fixture. Please read this user guide for safety and operation information before using the product.

Package Contents:

- 1 x Talent MP112 Light
- 1 x User Manual

Safety Instructions:

- Please keep this user manual for future consultation. If you sell the fixture, be sure to include this instruction booklet to ensure proper maintenance and use.
- Unpack and check carefully for transportation damage before using the fixture.
- Before operating, ensure that the power supply voltage and frequency match the power of your electrical system.
- Disconnect main power before servicing and maintenance.
- Use a safety cable when permanently mounting this fixture. Always handle the fixture with care.
- In the event of a serious operating problem, stop using the fixture immediately. Please contact the dealer from whom you purchased the fixture, the nearest authorized technical repair facility, or Talent Sound & Lighting directly.
- Do not connect the device to any dimmer pack.
- Do not touch exposed wires during use, as there might be a hazard of electrical shock.
- To prevent or reduce the risk of electrical shock or fire, do not expose the fixture to rain or moisture.
- The fixture must be replaced if there is visible damage to the housing.
- Do not look directly at the LED light beam while the fixture is on.

Warning: Please read the instructions carefully. They include important information about installation, operation, and maintenance. Do not connect more than 16 units in series (daisy-chaining) on a single power circuit.

Caution: There are no user serviceable parts inside the fixture. Do not open the housing or attempt any repairs yourself. In the unlikely situation your unit may require service, please contact your dealer or Talent Sound & Lighting.

Introduction:

The Talent MP112 Mini Par offers twelve 1 watt LEDs (3R, 3G, 3B, 3W) to produce brilliant color splashes in a compact, lightweight enclosure. The mini par features auto program modes such as auto-run, sound active, slave control, and also can be controlled by any universal DMX controller. Since the MP112 is easy to control, the fixture provides lighting effects without the need for complex programming. The MP112's size makes it the perfect light for clubs, mobile entertainers, event spaces, live sound, and conference rooms.

Features:

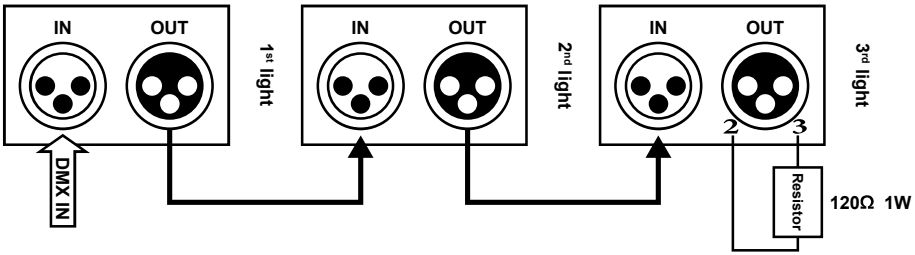
- Twelve 1 watt LEDs (3R, 3G, 3B, 3W) produce customizable color selections
- Easily programmed with auto-run, sound active, slave, and DMX controlled modes
- Compact size ideal for mobile applications and where traditional, larger fixtures won't fit

Operation Instructions:

Master/Slave Fixture Linking:

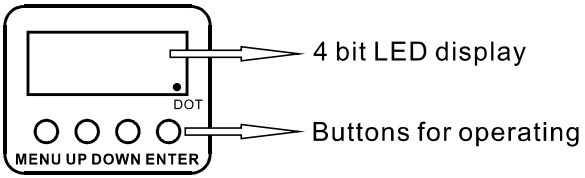
- Connect the output (male) of the controller via a 3-pin DMX cable to the input (female) 3-pin connector of the first fixture.
- From the first fixture in the chain, connect the output 3-pin DMX cable to the input DMX connector of the next sequential fixture.
- Proceed in following manner for all fixtures in the chain.

Note: Max recommended serial date link distance: 1600 ft.
Note: Max recommended number of fixtures on a serial data link: 32 fixtures
Note: It is recommended to use a DMX terminator at the end of the fixture chain to prevent data errors and erratic operation



Fixture Programming:

Display:



MENU: Select menu options or exit menu controls
UP: Increases parameter
DOWN: Decreases parameter
ENTER: Confirms parameter or enters submenu options

Program Menu Displays:

Display		Functions	
Initial Display	**Second Display**	**Function**	**Secondary Function**
d001 - d512.	None	Selects DMX Channel	None
IP.01 - IP.64	None	Selects IP Address	None
A1.01 - A1.19	None	Static Color Programs	None
A2.01 - A2.19	A2.01 - A2.32	LED Jump Programs	Flash Speed (1-32)
A3.01 - A3.19	A3.01 - A3.19	Rainbow LED Programs	Flash Speed (1-19)
A4.01 - A4.19	A4.01 - A4.19	Sound Active Mode	Flash Speed (1-19)
A5.01 - A5.19	A5.01 - A5.32	LED Strobe Programs	Flash Speed (1-32)
R.000 - R.255	None	Controls Red LED Intensity	None
G.000 - G.255	None	Controls Green LED Intensity	None
B.000 - B.255	None	Controls Blue LED Intensity	None
U.000 - U.255	None	Controls White LED Intensity	None

DMX/Slave:

Your Talent MP112 fixture may be operated as a stand-alone device that runs on pre-programmed routines or sound activation, in master/slave mode with other devices, or via an external DMX512 controller. In DMX mode it is configurable to be controlled by 8 channels of an outboard DMX controller.

- Select desired DMX channel in which the fixture shall operate (there are 512 useable channels; d001-d512).
- Use the UP and DOWN buttons to change channel.
- Press ENTER to confirm - LED display will show the DMX channel the light is set to.

DMX Channels:

- Press MENU until the LED display shows d.001~d.512.
- Use the UP and DOWN buttons to change DMX channel.
- Press ENTER to confirm - LED display will show the DMX channel the light is set to.

8-Channel

Channel	Value	Function
CH1	0-10	No Function
	11-50	Macro A1
	51-100	Macro A2
	101-150	Macro A3
	151-200	Macro A4
	201-255	Macro A5
CH2	0-39	All Color
	40-49	Red
	50-59	Green
	60-69	Blue
	70-79	Yellow
	80-89	Cyan
	90-99	Purple
	100-109	White
	110-119	Red & Green
	120-129	Red & Blue
	130-139	Red & White
	140-149	Green & Blue
	150-159	Green & White
	160-169	Blue & White
	170-179	Red & Green & White
	180-189	Red & Blue & White
	190-199	Green & Blue & White
	200-209	Red & Green & Blue
	210-255	Red & Green & Blue & White
CH3	0-255	Speed
CH4	0-255	Master Dimming
CH5	0-255	Red Dimming
CH6	0-255	Green Dimming
CH7	0-255	Blue Dimming
CH8	0-255	White Dimming

IP Code:

- Press MENU until the LED display shows IP.01.
- Use the UP and DOWN buttons to change IP Code.
- Press ENTER to confirm - LED display will show the IP Code the light is set to.

Auto Program:

- Press MENU until the LED display shows one of the 5 auto programs (A.01-A.05).
- Use the UP and DOWN buttons to change parent auto program.
- Press ENTER to confirm.
- Programs A2-A5 have sub programs that control the flash speed. These programs can be changed after the parent program is selected by pressing ENTER. The LEDs will flash and you can select the sub program flash speed.
- Press ENTER to confirm - LED display will show the auto program the light is set to.

Color Intensity:

- Press MENU until the LED display shows one of the 4 color controls (R.001, G.001, B.001, U.001).
- Use the UP and DOWN buttons to change the color intensity (001-225).
- Press ENTER to confirm - LED display will show the color intensity the light is set to.

Technical Specifications:

LEDs:	12 x 1W (3R, 3G, 3B, 3W)
DMX Channels:	8
Modes:	DMX512, master/slave, auto internal programs
Programs:	Static color, strobe, dimmer, gradient, fade, jump
Color Mixing:	RGBW (mixing color)
Control Panel:	LED Display
Control In/Out:	3-pin DMX in & out connectors
Power Input:	100-240 VAC, 50-60 Hz
Power Consumption:	15 watts
Dimensions:	4.75" L x 4.75" W x 3.5" D
Weight:	1.3 lbs.

APPENDIX:

DMX General Information

The DMX512 digital communication protocol was introduced to control stage lighting and special effects.

The DMX standard features 512 available channels, and they are assignable in any sequence that conforms to the user's needs. Each DMX-capable fixture requires one or more sequential channels. A starting address, which indicates the first control channel reserved for that particular fixture, must be assigned to the fixture before the controller can recognize it. DMX controllable fixtures may vary in the number of channels they require, depending on the fixtures features and/or functionality.

Channels should never be permitted to overlap; otherwise, for example, a fader that controls blue output on one fixture may cause strobing or dimming on an adjacent, incorrectly assigned fixture. Multiple fixtures of the same type that use an identical starting address will function in unison. Fixtures assigned properly spaced starting addresses will operate individually, but a DMX controller with sufficient channels can be configured to run these same fixtures either combined or independently.

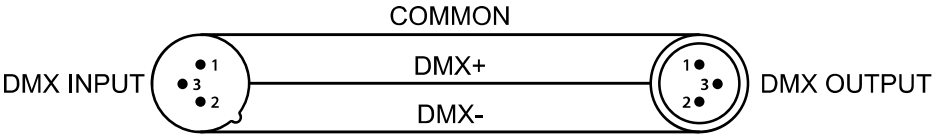
The sequence in which DMX fixtures are connected has no effect on how a controller communicates with each individual lighting fixture. Although 3-pin XLR mic cables may be used to connect DMX fixtures over short runs, longer distances will introduce data errors due to the mic cable's incorrect impedance. For best results, Talent Sound & Lighting recommends the use of correct 120 ohm, low-capacitance, twisted pair cable designed for the DMX512 protocol. It is also suggested that a termination resistor plug be used on the output connector of the last fixture in an array of DMX instruments. This resistance ensures proper data transmission.

DMX512 Connections

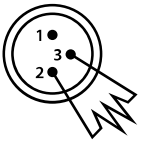
DMX512 is a widely used protocol for intelligent lighting control, with 512 available channels. Even if you do not wish to operate your Talent lighting fixture via an outboard DMX controller, utilizing the master/slave mode will still require unit-to-unit connection by proper DMX cables.

Caution: Common microphone cables may be used to connect small numbers of DMX fixtures over short distances, but offer the risk of erratic operation. Use of correct DMX cables greatly reduces data errors caused by improper connection.

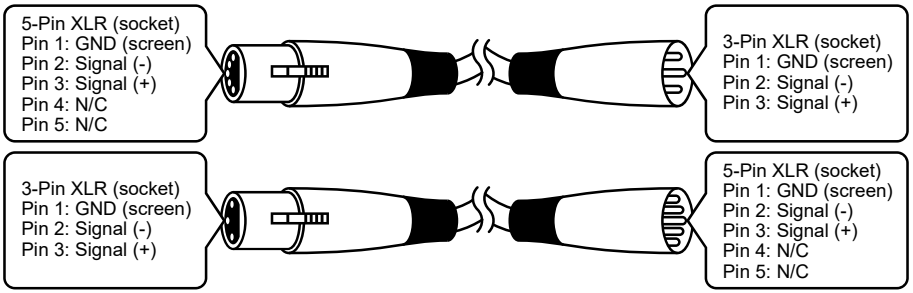
- If you are using a controller with 5-pin DMX output, use a 5-pin to 3-pin adapter cable.
- Connect fixtures together in a "daisy chain" by connecting the DMX output of the first fixture to the DMX input of the next fixture. This cable cannot be branched or split by a "Y" cable. Inadequate or damaged cables, bad solder joints, or corroded connectors can easily distort the signal, cause errors, and shut down the system. Never allow contact between the data common/shield connection (XLR Pin 1) and the fixture's chassis/electrical ground.
- The DMX output and input connectors are pass-through to maintain the DMX circuit if power to one of the units is disconnected.
- On the last fixture, the DMX output should be terminated with a terminator to reduce signal errors. Solder a 120 ohm 1/4 watt resistor between pin 2 (DMX-) and pin 3 (DMX+) on a 3-pin XLR plug and connect it to the DMX output of the last fixture.



Termination reduces signal errors and to avoid signal transmission problems and interference. It is always advisable to connect a DMX terminal. (Resistance 120 ohm 1/4W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.



Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors into a 3-pin line, a cable adapter must be used. The chart below details the correct cable conversion.



5-Year Warranty

See talentaudio.com for details

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Last Revised: 5/22/2019