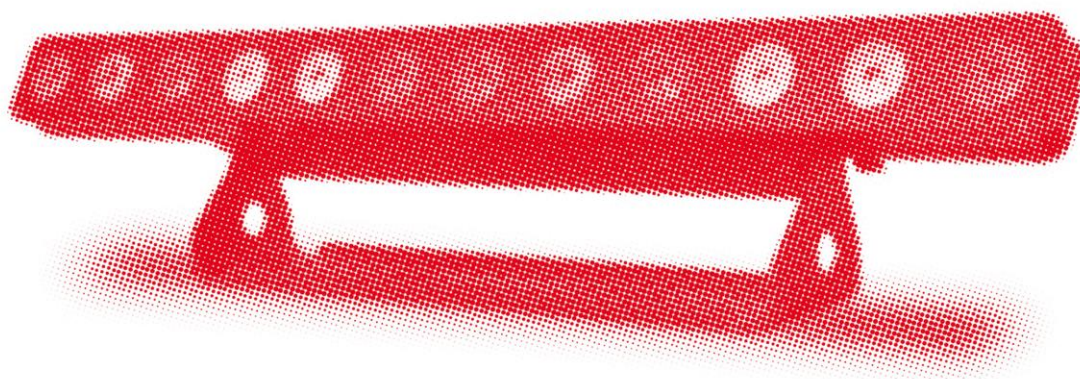




PROFESSIONAL LED COLOR CHANGER USER MANUAL



PIXEL MINI BAR 12

KEEP THIS MANUAL FOR FUTURE NEEDS



GENERAL GUIDELINES

Thanks for choosing PIXEL MINI BAR 12.

This device is a lighting effect bar for indoor professional use on stages, discotheques, theatres, etc..

Versatile and based on 12 X 8W RGBW high power led.

Light, compact and silent is ideal for any application.

Light source:

- Power: 12 X 8W RGBW LED
- Average led life: 50.000 Hours

Specifications:

Color

- RGBW color mixing

Pixel control

- Individual

Beam angle

- 25°

Strobe/Dimmer

- Strobe: variable
- Dimmer: Linear digital 0-100%

Cooling

- Forced ventilation
- Silent

Mounting

- Any position
- Adjustable mounting bracket

Physical size:

- Attached drawings
- Weight: 6,2 Kg
- Packing dimension: 95x17x20 cm
- Gross weight: 6,7 kg

Control protocol and programming:

- USITT Dmx 512/1990
- Control channel modes: 2/4/6/10/50/54
- 4 operational modes: Dmx,Auto,Slave,Audio
- 4 buttons control panel
- LCD display, auto lock
- Preset programs with adjustable flash and speed

Available colors:

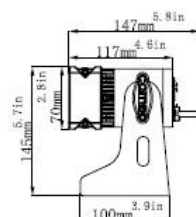
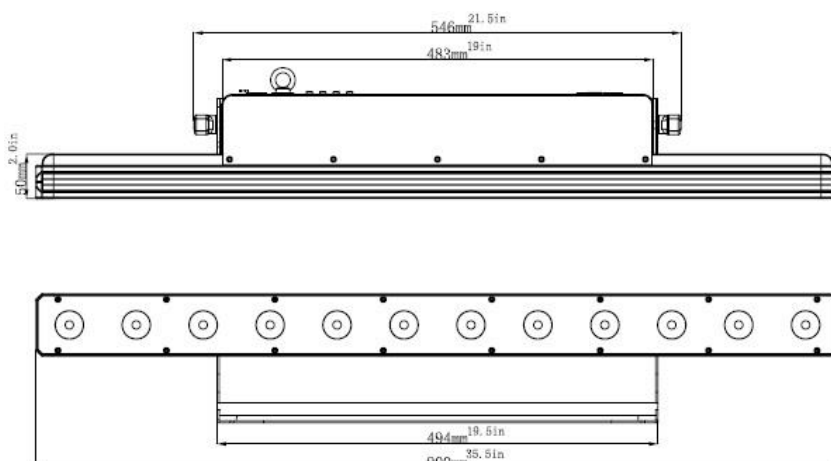
- Black
- Other on request

Electrical specification/connections:

- AC power: 100-240V, 50/60HZ
- Max power consumption: 96 W
- Power connection: Powercon IN/OUT
- Dmx connection: 3-5 poles IN/OUT

Accessories:

- Powercon-Schuko power cord
- Dmx cable
- Safety cord
- Flight case
- Accessories can be included in special offer



Operate the device only after having familiarized with its functions.
Do not permit operation by persons not qualified for operating the device.
Most damages are the result of unprofessional operation.
Lighting effects are not designed for permanent operation.
Consistent operation breaks may ensure that the device will serve you for a long time without defects. For safety reasons, please be aware that all modifications on the device are forbidden.
If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void.

IMPORTANT SAFETY INFORMATION

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.



Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

For safety reason, please be aware that all modifications on the device are forbidden.
Operate the device only after having familiarized with its functions.
Keep away from children and non-professionals.
Do not permit operation by persons not qualified for operating the device.
Most damages are the result of unprofessional operation.

FIRE PREVENTION

Never locate the fixture on any flammable surface.
Minimum distance from flammable material is 1 m.
Minimum distance from the closest illuminable surface is 1 m.
Never project the beam onto combustible substances.
Replace any blown or damaged fuses only with those of identical value.
Connect the projector to mains power, via a thermal magnetic breaker, following the Voltage dates stated in the electrical specification in this manual.
Use appropriate cables considering power consumption and ambient of the installation.
Strict adherence to regulatory norms is strongly recommended.

PREVENTION OF ELECTRIC SHOCK

High voltage is present inside the unit. Isolate the projector from the mains supply prior to performing any function which involves touching the inside of the unit.
The fixture requires the assistance of specialized personnel for all servicing.
Please refer to an authorized Red Lighting center.
A good earth connection is essential for proper functioning of the projector.
Never connect the unit without proper earth connection.

PROTECTION AGAINST DIRECT LIGHT RADIATION

Never turn on the unit if lenses or glass lenses protection are damaged or out of the right operating position. Never look directly the leds when they are on.

INSTALLATION



CAUTION!

Please consider the EN 60598-2-17 and the other respective national norms during the installation. The installation must only be carried out by a qualified person.

Do not shake the device. Avoid vibration and shocks when installing or operating the device.

Pixel Mini Bar 12 may be either floor or ceiling mounted.

The projector must always be installed with bolts, clamps and other tools that are capable of supporting the weight of the unit. Always use a second safety cable or chain to sustain the weight of the unit in case of the failure of the main fixing point. Make sure that the iron cable or chain can bear the weight of the entire unit.

The supporting structure must be well sized and approved by an authorized expert.

Installation requires extensive experience, including amongst calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the device.

The installation must be checked and approved periodically by an authorized expert.

If you lack these qualifications, do not attempt the installation yourself.

Improper installation can result in bodily injury.

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached operating temperature.

The applicable temperature for the projector is between -10°C to 40°C.

Do not use the fixture under or above this temperature range.

The external surface of the unit, at various points, may reach high heat. Never handle the unit until it's on.

Never install the fixture in an enclosed area lacking sufficient airflow.

Do not use the device in environments that require the exceeding the protection grade.

Do not use the device if not well closed and connected by appropriate cabling.

Connect the projector to mains power, via a thermal magnetic circuit breaker, following the Voltage dates stated in the electrical specification in this manual.

Use appropriate cables considering power consumption and ambient of the installation.

A good earth connection is essential for the safety and correct operation of the projector.

Strict adherence to regulatory norms is strongly recommended.

MAIN AND SIGNAL CONNECTION

To connect the unit to the main line and signal line insert the wires in the cable glands and connect them to the appropriate terminal blocks.

DMX 512

The unit operates using a digital DMX 512 (1990) signal. Connection between the controller and the projector must be carried out using appropriate cables with low capacitance and 120 Ω as impedance.

Pin 1 connected to the ground, Pin 2 connected to the DATA-, Pin 3 connected to the DATA+.

Do not connect the cable ground to the plug chassis. The plug housing must be isolated.

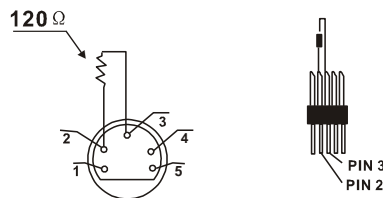
Connect the controller signal to the DMX IN projector plug and connect it to the next projector by connecting the DMX OUT plug on first projector to the DMX IN plug of second one.

By this way, all projectors are cascade connect.



For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain.

Please see illustrations below.



OPERATION INSTRUCTIONS

- 1) AUTO RUN
- 2) SOUND
- 3) SLAVE
- 4) DMX MODE

● *Auto Run mode*

Press MODE button to show:

AUTO RUN “FUNCTION”

FQN:01-99

FQN01-99 to adjust the Frequency

DMX Values	Built-in programs Functions
001 - 005	1.MANUAL R00-99 G00-99 B00-99 W00-99 F00-99
006 - 023	02.DREAM Dimm00-99 SP01-99: F00-99:
024 – 041	03.METEOR Dimm00-99 SP01-99: F00-99:
042 – 059	Dimm00-99 SP01-99: F00-99:
060 – 077	05.CHANG Dimm00-99 SP01-99: F00-99:
078 - 095	06.FLOW1 Dimm00-99 SP01-99: F00-99:
096 –113	07.FLOW2 Dimm00-99 SP01-99: F00-99:
114 – 131	08.FLOW3 Dimm00-99 SP01-99: F00-99:
132 - 149	09.FLOW4 Dimm00-99 SP01-99: F00-99:
150 – 167	10.FLOW5 Dimm00-99 SP01-99: F00-99:
168 – 185	11.FLOW6 Dimm00-99 SP01-99: F00-99:

186 - 203	12.FLOW7 Dimm00-99 SP01-99: F00-99:
204 - 221	13.FLOW8 Dimm00-99 SP01-99: F00-99:
222 - 239	14.FLOW9 Dimm00-99 SP01-99: F00-99:
240 - 255	15.FLOW10 Dimm00-99 SP01-99: F00-99:

- **Slave Mode:**

Link the units and press MODE to show:

S L A V E
M O D E

- **Sound Mode:**

Press MODE button to show:

SOUND MODE

SENS:00-31 FQN:01-99

Adjust the sensitivity via UP/DOWN from 00-31. Adjust the frequency from 01-99.

- **Invert Function:**

Press MODE button, the display will show:

FLOW INVERT
ON/OFF

Via ON/OFF you can adjust the flow running effect from left to right OR from right to left.

- **DMX Mode**

Channel modes: 2CH, 4.1CH, 4.2CH, 6CH, 10CH, 54CH

2 channel mode:

CH1	DIMMER (Master dimmer)	000 - 255	0-100%
CH2	Color Macro	000 - 005	Blackout
		006 - 125	Color Macro 1-15
		126 - 128	Off
		129 - 192	1-12 color jump from slow to fast
		193 - 255	1-12 color fade from slow to fast

4.1 channel mode:

CH1	DIMMER (Master dimmer)	000 - 255	0-100%
CH2	Strobe	000 - 005	Off
		006 - 010	Blackout
		011 - 250	Strobe (0HZ-20HZ)
		251 - 255	off
CH3	Color Macro	000 - 005	Blackout
		006 - 125	1-15 built-in programs
		126 - 128	off
		129 - 192	1-12 color jump from slow to fast
		193 - 255	1-12 color fade from slow to fast
CH4	White	000 - 255	White color from 0-100%

4.2 channel mode:

CH1	R	000 - 255	0 - 100%
CH2	G	000 - 255	0 - 100%
CH3	B	000 - 255	0 - 100%
CH4	W	000 - 255	0 - 100%

6 channel mode:

CH1	DIMMER (Master dimmer)	000 - 255	0 - 100%
CH2	Strobe	000 - 005	off
		006 - 010	Blackout
		011 - 033	Pulse Random from slow to fast
		034 - 056	Ram up Random from slow to fast
		057 - 079	Ram down random from slow to fast
		080 - 102	Random strobe
		103 - 127	Strobe break effect
		128 - 250	Strobe from 0Hz - 20Hz
		251 - 255	off
CH3	R	000 - 255	0 - 100%
CH4	G	000 - 255	0 - 100%
CH5	B	000 - 255	0 - 100%
CH6	W	000 - 255	0 - 100%

10 channel mode:

CH1	DIMMER (Master dimmer)	000 - 255	0 - 100%
CH2	Strobe	000 - 005	off
		006 - 010	Blackout
		011 - 033	Pulse Random from slow to fast
		034 - 056	Ram up Random from slow to fast
		057 - 079	Ram down random from slow to fast
		080 - 102	Random strobe
		103 - 127	Strobe break effect

		128 - 250	Strobe from 0Hz - 20Hz
		251 - 255	off
CH3	R	000 - 255	R (0-100%)
CH4	G	000 - 255	G (0-100%)
CH5	B	000 - 255	B (0-100%)
CH6	W	000 - 255	W(0-100%)
CH7	Colour Macro	000 - 005	No function
		006 - 125	1-15 color macro
		126 - 128	Color jump stop
		129 - 192	1-12 color jump from slow to fast
		193 - 255	1-12 color fade from slow to fast
CH8	CT	000 - 005	No function
		006 - 255	CT from cool white to warm white
CH9	Built-in programs	000 - 005	No function
		006 - 255	Built-in programs from 2-15
CH10	Sound	000 - 005	No functions
		006 - 255	Sensitivity (built-in programs can be selected from 2-15)

50 channel mode:

CH1	DIMMER (Master dimmer)	000 - 255	0-100%
CH2	Strobe	000 - 005	off
		006 - 010	Blackout
		011 - 033	Pulse Random from slow to fast
		034 - 056	Ram up Random from slow to fast
		057 - 079	Ram down random from slow to fast
		080 - 102	Random strobe
		103 - 127	Strobe break effect
		128 - 250	Strobe from 0Hz - 20Hz
		251 - 255	off
CH3	R1	000-255	0-100% (LED Red 1)
CH4	G1	000-255	0-100% (LED Green 1)
CH5	B1	000-255	0-100% (LED Blue 1)
.....
CH47	R12	000 - 255	0-100% (LED Red 12)
CH48	G12	000 - 255	0-100% (LED Green 12)
CH49	B12	000 - 255	0-100% (LED Blue 12)
CH50	W12	000 - 255	0-100% (LED White 12)

54 channel mode:

CH1	DIMMER (Master dimmer)	000 - 255	0-100%
CH2	Strobe	000 - 005	off
		006 - 010	Blackout
		011 - 033	Pulse Random from slow to fast

		034 - 056	Ram up Random from slow to fast
		057 - 079	Ram down random from slow to fast
		080 - 102	Random strobe
		103 - 127	Strobe break effect
		128 - 250	Strobe from 0Hz - 20Hz
		251 - 255	off
CH3	R1	000 - 255	0-100% (LED Red 1)
CH4	G1	000 - 255	0-100% (LED Green 1)
CH5	B1	000 - 255	0-100% (LED Blue 1)
.....
CH47	R12	000 - 255	0-100% (LED Red 12)
CH48	G12	000 - 255	0-100% (LED Green 12)
CH49	B12	000 - 255	0-100% (LED Blue 12)
CH50	W12	000 - 255	0-100% (LED White 12)
CH51	Color Macro	000 - 005	No function
		006 - 125	1-15 color macro
		126 - 128	Color jump stop
		129 - 192	1-12 color jump from slow to fast
		193 - 255	1-12 color fade from slow to fast
CH52	CT	000 - 005	No function
		006 - 255	CT from cool white to warm white
CH53	Built-in programs	000 - 005	No function
		006 - 255	Built-in programs from 2-15
CH54	Sound	000 - 005	No functions
		006 - 255	Sensitivity (built-in programs can be selected from 2-15)

DMX Values	Color macro
006 - 013	r=255;g=0;b=0
014 - 021	r=255;g=110;b=0
022 - 029	r=255;g=140;b=0
030 - 037	r=255;g=190;b=0
038 - 045	r=0;g=255;b=0
046 - 053	r=0;g=255;b=139
054 - 061	r=0;g=255;b=255
062 - 069	r=0;g=0;b=255
070 - 077	r=231;g=0;b=255
078 - 085	r=255;g=0;b=151
086 - 093	r=255;g=0;b=88
094 - 101	r=255;g=75;b=112
102 - 109	r=255;g=150;b=47 (3200K)
110 - 117	r=255;g=183;b=140 (5600K)
118 - 125	r=218;g=255;b=255 (7200K)

CLEANING AND MAINTENANCE

ATTENTION:

REMOVE MAINS POWER PRIOR TO ACCESSING THE INTERNAL OF THE PROJECTOR.

The dust can reduce the luminous output substantially.

Regularly clean the front lenses glass using a soft cotton cloth, damped with a specialist glasses cleaning solution.

Periodically check all mechanical parts and the gasket, replacing them if necessary.

All screws for installing the devices or parts of the device have to be tightly connected and in perfect condition.

There must not be any deformations on the housing, lenses, fixations and installation spots (ceiling, suspension, trussing).

Check all earth connection, main cables and electrical components. Refastening if necessary.

Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.

In order to make the projector in good condition and extend the life time, we suggest a regular inspection.

Should you need any spare parts, please order genuine parts referring to an authorized center.

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