PIXBAR40FXT

LED Pixel Bar with 40 x 1.5W RGB LEDs

USER MANUAL

For safety, please read this user manual carefully before initial use.

Event Lighting reserves the right to revise the manual at any time. Information and specifications within this manual are subject to change without notice. Event Lighting assumes no liability or responsibility for any errors or omissions. Please consult Event Lighting for any clarification or information regarding this item.

Ver 3.1

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Safety Instructions

WARNING

- Do not open this device, there is no user-serviceable parts inside. Risk of electric shock.
- Do not look at the light source when the device is on.
- **CAUTION**: This unit's housing may be hot during and after operation.
- Install this device in a location with adequate ventilation, at least 20 inch (50 cm) from adjacent surfaces.
- Do not leave any flammable material within 50 cm of this unit while operating or connected to power.
- Use a safety chain when mounting this device overhead.
- Do not operate this device outdoors or in any location where dust, excessive heat, water, or humidity may affect it.
- Do not operate this device if the housing, lenses, or cables appear damaged.
- Do not connect this device to a dimmer or rheostat.
- ONLY connect this device to a grounded and protected circuit.
- ONLY use the hanging bracket to carry this device.
- In case of a serious operating problem, stop using immediately.
- The maximum ambient temperature is 104° F (40° C). Do not operate this device at higher temperatures.

Power Input & Power Linking

This device has an auto-switching power supply work with input voltage range of 100~240 VAC, 50/60 Hz.
Link up to the maximum 8A. DO NOT exceed this number.

Product Installation

This device can be mounted in many orientations provided each individual device is secured by the use of correct mounting bracket.

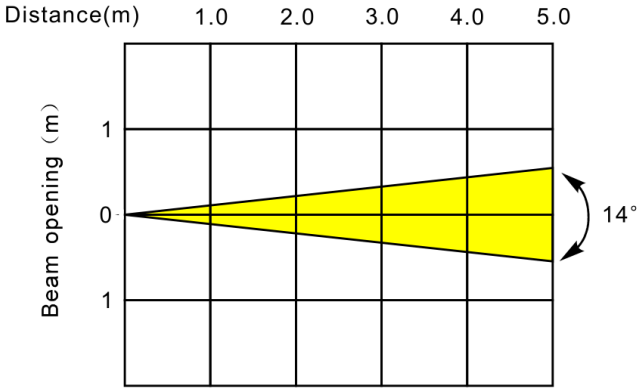
Use a safety chain when mounting this device overhead.

Fuse Replacement

If the fine-wire fuse of the device fuses, only replace the fuse by a fuse of same type and rating.
Before replacing the fuse, unplug mains lead.
Procedure:
Step 1: Unscrew the fuse holder on the rear panel with a fitting screwdriver from the housing (anticlockwise).
Step 2: Remove the old fuse from the fuse holder.
Step 3: Install the new fuse in the fuse holder.
Step 4: Replace the fuse holder in the housing and fix it.

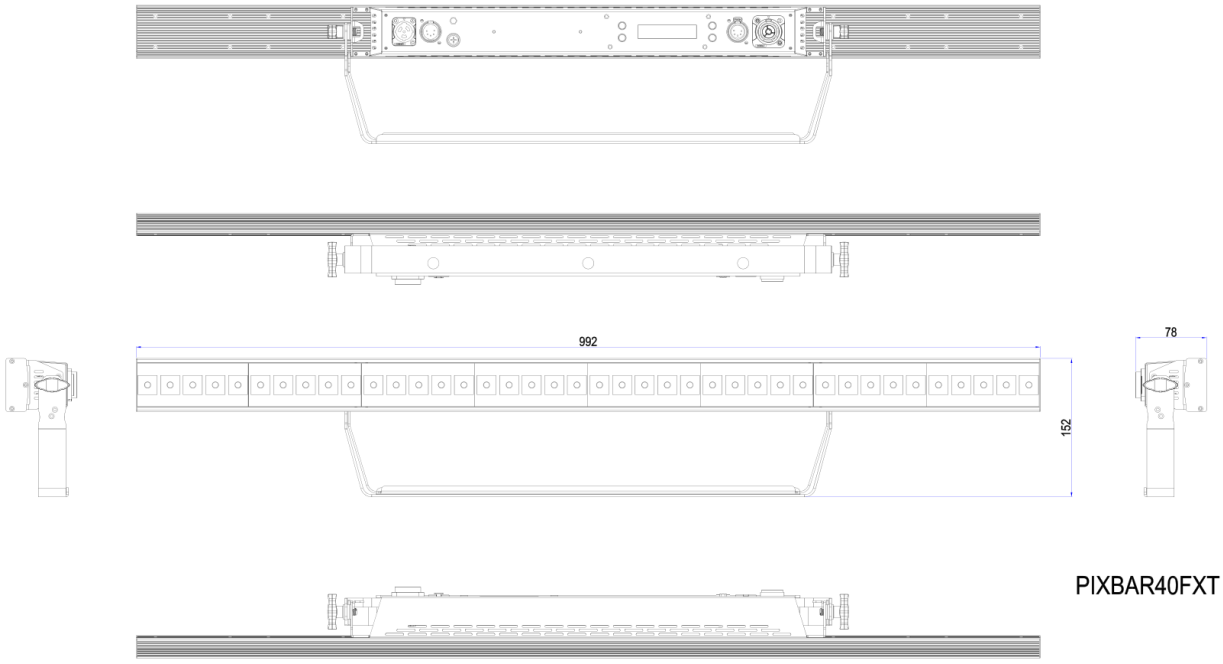
Lux Chart

PIXBAR40FXT 14°



14° Diameter(m)		Φ0.26	Φ0.53	Φ0.79	Φ1.05	Φ1.32
Intensity LUX	R	3580	1565	952	640	390
	G	4950	2100	1340	808	590
	B	1298	600	365	235	150
	Full	5318	2450	1500	980	620

Dimensions



PIXBAR40FXT

Control Board Operation

Display	Options / Values	Function
DMX Add	<001> - <512>	Set DMX address
DMX Cha	<01> <03> <07> <08> <09> <120> <122> <User>	Select DMX channel mode
Dim Curve	<01> <02> <03> <04> <05>	Select dimmer curve
DMXLoss	<Hold><Blacko><Manual><Auto>	Select mode when DMX loss
UserDMX	CH:<01> End	Edit a user DMX mode
StaticC	<R> <G> <B> <GB> <RG> <RB> <RG> <RGB>	Select static colour
	Dim<000>-<255>	Set the intensity of each static colour
ManualC	R<000> - <255> G<000> - <255> B<000> - <255> Dim<000>-<255> S<000> - <100>	Set intensity of each colour separately for color mixing and strobe rate
Manual WCT	WT<001> - <011> <Dim000> - <Dim255>	Set the colour temperature WCT 01-11 and adjust the brightness
Auto Pr	<Random>(=Pr01)~Pr38 Sp<000> - <100> Dim<000> - <255>	Select built-in automatic programs, auto run speed and dimmer level
Sound	Sen<000>-<100>	Select sound active mode and the sensitivity level
Mas/Sla	<off> <Master> <Slave> -<Slave01>-<Slave20>	Select Master/Slave modes
Connect	<01>-<20>	Select the number of groups of slave fixtures for runway mode
Directions	<Normal><Reverse>	Set all programs' direction to run either right or left
Wireless	<ON>/<OFF>	Select to turn on or off to receive or transmit wireless DMX signal
	<EL Mode>➔ CH<00>~<05>	Select EL Mode
	<W-DMX_R>➔<Receive>/<Delete>	Set the fixture to receive Wireless DMX signal
	<W-DMX_T>➔<Transim>/<Create>	Set the fixture to transmit Wireless DMX signal
Update	<N>/ <Y>	Select to update firmware
	<START>	Use this fixture to update another fixture's software
Reset	<N> <Y>	Recover manufactory default

DMX Address

After select the "DMX Add" and press “Enter”, use “Up” and “Down” button to select the desired DMX address, press “Enter" to save new setting

DMX Mode

After select the "DMX Cha" and press “Enter”, use “Up” and “Down” button to select the desired DMX mode, press “Enter" to save new setting

Dim Curve

After select the "Dimmer" and press “Enter”, use “Up” and “Down” button to select the desired dimmer curves

DMX Loss

Give users the ability to set what they want as the DMX Loss.

- By Standard ,out of the box, if in DMX mode and no signal = hold along with, if receiving DMX signal and loss = hold last signal

- Give users the ability to select, call on the menu DMX Loss then let users choose Hold (hold last signal), Blackout, Manual (last manual colour) or Auto (last Auto show selected) -

User DMX

Under this item, you can essentially pick a channel and assign a function of the DMX mode.

So for example, once 'User DMX' is selected, you can click through the channels so by default it may be the max amount of channels allocated, then you can re-arrange as you please and once you are finish, put an option to have the last channel 'End' so that it stops. Say you want 10 channels, the 11th channel would be End. making it a 10 channel user mode.Then to select this mode, under DMX Channel mode it would just be 'User'.

Static Colour Mode

Entered "Static C" mode, you can select the desired solid color via the “UP” or “DOWN” buttons, press “Enter" to save new setting

Value:	**Function:**
R	Red
G	Green
B	Blue
GB	Green + Blue
RG	Red + Green
RB	Red + Blue
RGB	Red +Green + Blue

Manual Color Mode

Entered "Manual C" mode, use “Up” and “Down” button to select the each colour (RGB) intensity from 000 to 255, select strobe (S) speed from S000 to S100. (S000 is strobe off). Press “Enter" to save new setting.

Manual WCT

Select the colour temperature from <WT01> - <WT11>, then use <Up> or <Down> to select intensity between 1 – 100, Press <Enter> to confirm.

Auto Program

Set auto run Pr 01 - Pr 38
Entered "Auto Pro" mode, use “Up” and “Down” button to select the built-in programs. Press “Enter" and use “Up” and “Down” button to select auto run speed from <Sp000> to <Sp100>. Press “Enter" and use “Up” and “Down” button to select dimmer of “Auto Pro” from <dim000> – <dim255>.Press “Enter" to save new setting.

Sound Trigger Mode

Entered “sound” mode, use “Up” and “Down” button to select the sensitivity Sen000-Sen100, press “Enter” to save new setting

Master/Slave Operation

In master/slave mode, one main unit (the master) can control one or more other units (the slaves) without a DMX controller.The master is set to Master mode, while the slaves are set to slave mode.Once configured and connected, all slave units will synchronize with the master unit and work together.

1. Press **Menu** and select **<Off>** or **<Master> <Slave01~20>**
2. Set the master fixture to one of the stand-alone operating modes: automatic, sound, static color or manual color modes.
3. Set the slaves, entered "Mas/Sla" mode, set to “**Slave01”**, press “Enter” to confirm.

Connect

This item is to set the number of groups of slave fixtures for **multi-fixture chases**.

Set Master Fixture:

1. Press **Menu** and **Up** or **Down**, select **Master/Slave** and select **Master**
2. Press **Menu** and **Up** or **Down**, select **Connect** and select one of **Connect<01>~<20>** to set the number of slave fixtures or the number of groups of slave fixtures(each group can include over 1 fixture) that you would like to put in the chase. For example, if you have set the **Connect** to **Connect<10>**, it means there will be 10 fixtures including the Master fixture and 9 slave fixtures or 9 groups of salve fixtures, the fixtures in the same group have the same salve number.
3. Press **Menu** and **Up** or **Down,** select **Auto Program** and select the targeting auto program that you would like the master and slave fixtures to run in the chase from the built-in 38 programs: **Random(=Pr01)~P38.**

Set Slave Fixture:

Take an example, if you have set the **Connect** to **Connect<10>**, it means there will be 10 fixtures including the Master fixture and 9 slave fixtures or 9 groups of slave fixtures.

1. Press **Menu** and **Up** or **Down**, select **Master/Slave** and select **Slave02** to set the Number 1 salve fixture following the Master fixture, Slave03 to the Number 2 slave fixture, Salve04 to the Number 3 slave fixture and so on.
2. Connect the slave fixtures to the master fixture with DMX cables.
3. Connect the DMX input of the first slave product to the DMX output of the master product.Connect DMX input of the subsequent slave products to the DMX output of previous slave product.Finish setting and connecting all the slave products

Wireless DMX

Each fixture is equipped with a built-in WDMX module and an antenna, allowing it to both receive and transmit DMX signals without the need for any DMX cables. To enable WDMX operation, you must first pair a fixture with another fixture or a standalone transceiver(connect to a DMX console).

To set a standalone transceiver (Not included in this product ,please purchase separately.), press the power button to turn it on. When the indicator light turns white, release the button; the transceiver will then be in configuration mode.

In this mode, you can select the air protocol of the transceiver: press the button once, and the indicator light color will switch in the order shown in the table below. After selecting the target protocol, press and hold the button (for more than 1 second), and release it when the indicator light turns white— the device will then enter the operating mode.

Colour	Air protocol
Red	EL MODE
Green	WDMX reception
Blue	WDMX transmission

In EL MODE,each time a button is pressed, the groups switch sequentially. The indicator lights on the transceiver display different colors to represent different group numbers. Only wireless transceivers within the same group can communicate with one another.

CH00	Red
CH01	Green
CH02	Blue
CH03	Red+Green=Yellow
CH04	Green+Blue=Cyan
CH05	Red+Blue=Magenta

In EL MODE, it supports setting 6 groups of independent ID codes, and with the dedicated pairing mode, it enables flexible and accurate grouping pairing between multiple transmitters and receivers. For example, you can set 6 transmitters to IDs CH00-CH05 respectively, which correspond to controlling 6 groups of different receiving devices (such as 6 lighting zones). This avoids signal interference between different groups and easily meets the collaborative control needs of multi-zone and multi-device scenarios.

Similarly, you can select EL MODE, WDMX reception mode, and WDMX transmission mode in the lighting fixture.

Press the Menu button, then press Up and Down to navigate. Select 'Wireless' from the local menu and press Enter. Choose 'On' or 'Off' to enable or disable wireless DMX mode. When set to 'On', return to select Mode. Under Mode, select EL Mode, press Enter, and use Up and Down to set the group number to CH<00>, CH<01>, CH<02>, CH<03>, CH<04>, or CH<05>.

In this way, you can set a maximum of six wireless DMX groups.

When multiple fixtures or standalone WDMX transceivers are in the same group, at any given time, the one that transmits DMX signals is assumed to be the transmitter, and the rest are automatically assumed to be receivers.

In Mode, press Up or Down, select W-DMX_R, press Enter, select Delete , press Enter, the fixture start to pair with a WDMX transmitter.

In Mode, press Up or Down, select W-DMX_T, press Enter, select Create , press Enter, the fixture start to pair with a WDMX receiver.

Firmware update

Use fixture A to update fixture B's firmware

- Set fixture A to "Update" mode, select "Y" then select "START"
- Link fixture A and fixture B with DMX cable, then power up fixture B
- Press "Enter" on fixture A, fixture B's firmware will be copied from fixture A.

*Ensure that fixture A and B are of the same type, otherwise damage may occur.

* Only fixture A and B should be in the DMX chain when updating firmware.

DMX Chart

1CH Mode

Channel	Value	Function
1	000-255	Master dimmer(select color temp from the menu)

3CH Mode

Channel	Value	Function
1	000-255	Red 0%~100% for all cells
2	000-255	Green 0%~100% for all cells
3	000-255	Blue 0%~100% for all cells

7CH Mode

Channel	Value	Function
1	000-255	Red 0%~100% for all cells
2	000-255	Green 0%~100% for all cells
3	000-255	Blue 0%~100% for all cells
4	000-255	Dimmer Coarse
5	000-255	Dimmer Fine
6	000-015	No function (Shutter On)
	016-119	Strobe Slow -> Fast(1-25HZ)
	120-127	No function (Shutter On)
	128-183	Strobe Random Slow -> Fast
	184-191	No function (Shutter On)
	192-247	Strobe Audio sensitivity low -> high
	248-255	No function (Shutter On)
7	000-009	Use dimmer curve from setting of control board
	010-057	Dimmer 1
	058-106	Dimmer 2
	107-155	Dimmer 3
	156-204	Dimmer 4
	205-255	Dimmer 5

9CH Mode

Channel	Value	Function
1	000-255	Red 0%~100% for all cells
2	000-255	Green 0%~100% for all cells
3	000-255	Blue 0%~100% for all cells
4	000-255	Dimmer Coarse
5	000-015	No function (Shutter On)
	016-119	Strobe Slow -> Fast(1-25HZ)
	120-127	No function (Shutter On)

	128-183	Strobe Random Slow -> Fast	
	184-191	No function (Shutter On)	
	192-247	Strobe Audio sensitivity low -> high	
	248-255	No function (Shutter On)	
6	000-009	Use dimmer curve from setting of control board	
	010-057	Dimmer 1	
	058-106	Dimmer 2	
	107-155	Dimmer 3	
	156-204	Dimmer 4	
	205-255	Dimmer 5	
7	000-019	No Function	
	020-039	RED 100% / GREEN 0% ~ 100% / BLUE 0%	
	040-059	RED 100% ~ 0% / GREEN 100% / BLUE 0%	
	060-079	RED 0% / GREEN 100% / BLUE 0% ~ 100%	
	080-099	RED 0% / GREEN 100% ~ 0% / BLUE 100%	
	100-119	RED 0% ~ 100% / GREEN 0% / BLUE 100%	
	120-139	RED 100% / GREEN 0% / BLUE 100% ~ 0%	
	140-159	RED 100% / GREEN 0% ~100% / BLUE 0% ~ 100%	
	160-179	RED 100%~ 0% / GREEN 100% ~ 0% / BLUE 100%	
	180-200	RED 100% / GREEN 100% / BLUE 100%	
	201-204	Color Temperature 1	Warm ↓ Cool
	205-209	Color Temperature 2	
	210-214	Color Temperature 3	
	215-219	Color Temperature 4	
	220-224	Color Temperature 5	
	225-229	Color Temperature 6	
	230-234	Color Temperature 7	
	235-239	Color Temperature 8	
	240-244	Color Temperature 9	
	245-249	Color Temperature 10	
	250-255	Color Temperature 11	
8	000-009	No function	
	010-014	Random(P2-P38)	
	015-020	Auto Program2	
	021-026	Auto Program3	
	027-032	Auto Program4	
	033-038	Auto Program5	
	039-044	Auto Program6	
	045-050	Auto Program7	
	051-056	Auto Program8	
	057-062	Auto Program9	
	063-068	Auto Program10	
	069-074	Auto Program11	
	075-080	Auto Program12	

	081-086	Auto Program13
	087-092	Auto Program14
	093-098	Auto Program15
	099-104	Auto Program16
	105-110	Auto Program17
	111-116	Auto Program18
	117-122	Auto Program19
	123-128	Auto Program20
	129-134	Auto Program21
	135-140	Auto Program22
	141-146	Auto Program23
	147-152	Auto Program24
	153-158	Auto Program25
	159-164	Auto Program26
	165-170	Auto Program27
	171-176	Auto Program28
	177-182	Auto Program29
	183-188	Auto Program30
	189-194	Auto Program31
	195-200	Auto Program32
	201-206	Auto Program33
	207-212	Auto Program34
	213-218	Auto Program35
	219-224	Auto Program36
	225-230	Auto Program37
	231-255	Auto Program38
9	000-255	Auto Program Speed 0%~100%

120CH Mode

Channel	Value	Function
1	000-255	Red 0%~100% for Cell 1
2	000-255	Green 0%~100% for Cell 1
3	000-255	Blue 0%~100% for Cell 1
4 ~ 120	000-255	Cell 2 ~ 40

122CH Mode

Channel	Value	Function
1	000-255	Red 0%~100% for Cell 1
2	000-255	Green 0%~100% for Cell 1
3	000-255	Blue 0%~100% for Cell 1
4 ~ 120	000-255	Cell 2 ~ 40
121	000-255	Dimmer
122	000-015	No function (Shutter On)

	016-119	Strobe Slow -> Fast(1-25HZ)
	120-127	No function (Shutter On)
	128-183	Strobe Random Slow -> Fast
	184-191	No function (Shutter On)
	192-247	Strobe Audio sensitivity low -> high
	248-255	No function (Shutter On)

Technical Specifications

Power

- Input Voltages: 100V~240V AC,50/60Hz
- Power Consumption: 65W
- Power Connection: TrueOne Power Input and Output Connection

Photometrics

- Light Source: 40 pcs of 1.5W RGB LEDs
- LENS: Size: 20mm, five lenses integrated into one unit
- Output: Full on: 5318lx @ 1m, 2450lx@2m
- PWM: 24000 Hz
- LED Life: 50,000 hours

Effects

- Dimming: 5 16bit digital Dimming Curves
- Strobe: 1 - 25 Hz
- Pixel controlled –40 LED x RGB 3 colors=120 dots controlled

Control

- Operational Modes: Static, Color Fade, Auto Program, Sound Active, Master / Slave & DMX Modes, RDM, WDMX
- Display: 4-button LCD Display Control Panel
- DMX Protocol: DMX512
- DMX Channel Mode: 1/3/7/9/120/122ch
- DMX Interface: 5-Pin XLR
- Software Upgrade via DMX: Yes

Housing

- Housing Materials: Aluminium Housing
- Cooling: no Fans, Ventilated cooling
- Dimension: 992(Width)X152(Height)X78(Thickness)mm
- Net Weight: 2.8 kg

Warranty

Please refer to your local dealer or please contact Event Lighting

Website: www.eventlighting.com.au