Creative Lighting Solutions

CLS PiXelbar 36
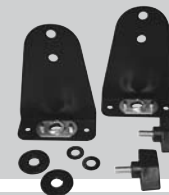
INTRODUCTION:
Thank you for selecting the CLS PiXelbar 36. The CLS PiXelbar 36 is a universal DMX-controlled luminary that uses 36 Luxeon® I LEDs to create an even light-output. Its numerous rigging facilities makes it the perfect choice for rental companies worldwide.

The CLS PiXelbar 36 features:
- Built-in electronic power supply
- DMX input & output
- DMX 512 controlable
- 20 built-in fixed colours
- 9 built-in fade programs

Included items
The CLS PiXelbar 36 is shipped in one package containing the following items:
- 1 CLS PiXelbar 36   (item nr. 875600)
- 1 neutrik input power connection plug   (item nr. 946411)
- 2 floor brackets   (item nr. 875750)
- 1 user manual

Optional accessories
- 25° lens (standard mounted on the fixture)   (item nr. 875700)
- CLS PiXelbar optional 25 x 45° lens   (item nr. 875705)
- CLS PiXelbar optional lens holder 25 / 25 x 45°   (item nr. 875720)
- Diffuser / frost filter   (item nr. 875730)
- PiXelbar floor bracket   (item nr. 875750)
- Special G-clamp with wingbolt, black   (item nr. 875760)
- CLS Omega bracket for coupling of PiXelbar   (item nr. 704811)
- CLS cable 80cm XLR 3P complete   (item nr. 911200)
- CLS cable 1,5mtr XLR 3P complete   (item nr. 911201)
- CLS cable 3mtr XLR 3P complete   (item nr. 911203)
- CLS cable 5mtr XLR 3P complete   (item nr. 911205)
- CLS cable 10mtr XLR 3P complete   (item nr. 911206)
- CLS cable 15mtr XLR 3P complete   (item nr. 911207)
- CLS cable 20mtr XLR 3P complete   (item nr. 911209)

NOTE: It is important to read this manual before you install ore use this product.

SAFETY INFORMATION
Warning! This product is for professional use only.
Read this manual before powering up or installing the CLS PiXelbar 36. Follow the instructions listed below and observe all warnings in this manual.

Protection from electric shock
• Disconnect the power supply from AC power before installing, dismounting or maintaining the unit.
• Make sure all connectors are connected properly.
• Use only a source of AC power that complies with local building and electrical codes.
• Do not expose the unit to rain or moisture.
• Refer all service to a qualified technician.

Protection from burns and fire
• Provide a clearance of at least 50 mm around the unit.
• Do not install the CLS PiXelbar 36 near a heat source.
• Do not install the CLS PiXelbar 36 in a corrosive, flammable or explosive area.
• Do not modify the CLS PiXelbar 36, or install other than genuine parts.
• Do not operate the unit if the ambient temperature exceeds 40°C.
• Operate in a well ventilated area.

Protection from injury due to falls
• Verify that all covers and mounting hardware is securely fastened.
• Block the access below the work area whenever installing or removing the unit.

OPERATION DETERMINATIONS
The CLS PiXelbar 36 is made for indoor use only. If the unit has been exposed to drastic temperature changes, do not switch it on immediately. The arising condensation might damage your unit. Leave the unit switched off till it has reached room temperature.

Only operate the unit after having checked the housing. Make sure it is firmly closed and the screws fastened tightly. Do not shake the CLS PiXelbar 36. Avoid brute force when installing or operating the CLS PiXelbar 36.
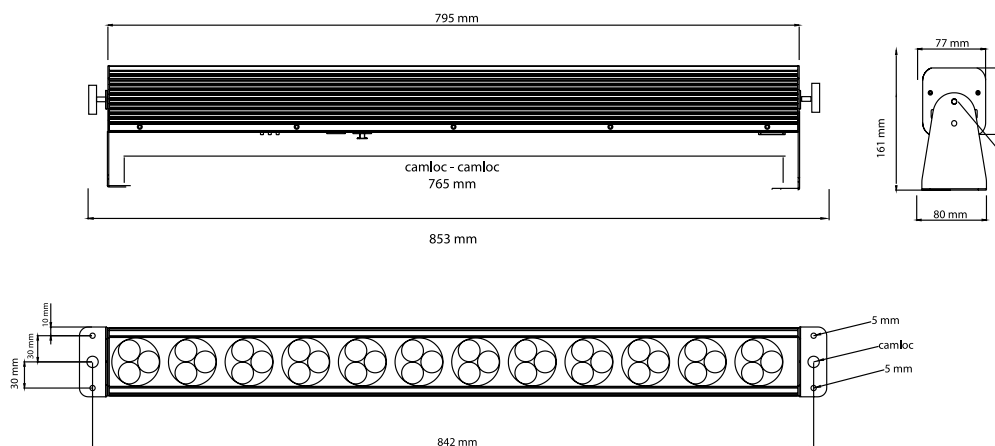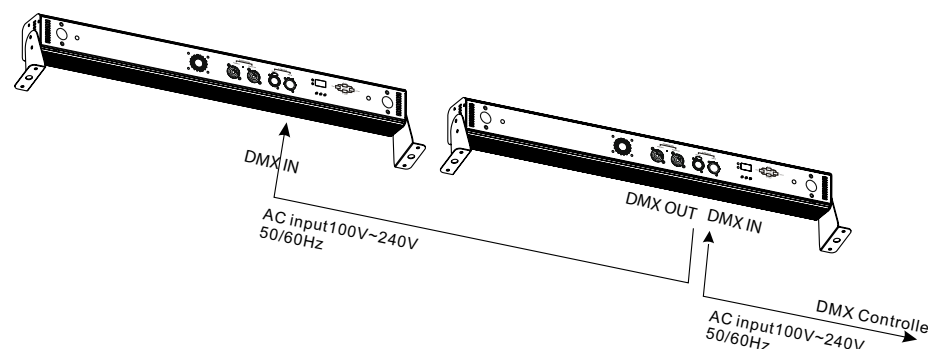
Operate the CLS PiXelbar 36 only after having familiarized with its functions. Do not permit operation by persons who are not qualified for operating the CLS PiXelbar 36. Most damages are the result of unprofessional operation!

The maximum ambient temperature of 40 degrees must never be exceeded.
Please consider that unauthorized modifications on the CLS PiXelbar 36 are forbidden due to safety reasons!

INSTALLATION
Unplug from the mains before installation. Mount the brackets on the fixture. Connect the AC power cord to the socket.

Dimensions

795 mm
77 mm
camloc - camloc
765 mm
161 mm
80 mm
853 mm

10 mm
30 mm
30 mm
5 mm
camloc
5 mm
842 mm

Wiring diagram

DMX IN
AC input100V~240V
50/60Hz
DMX OUT   DMX IN
AC input100V~240V
50/60Hz
DMX Controller

OPERATION

Lock functionality
When the display is off, the button functionality is locked. To unlock, press the menu button and hold it for 3 seconds. The display will light up.

When none of the buttons are in use for 30 seconds, the display will turn off. This will automatically lock the button functionality.

DMX address settings:
For setting up a DMX address, press **Menu** until you see 3 numbers. The display shows the DMX address. Press **Up** and **Down** to select the desired address from **001-512.**

STAND ALONE
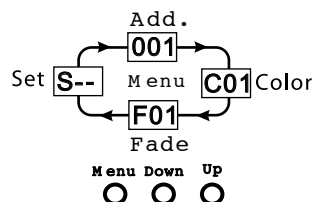There are two possibilities to use the CLS PiXelbar in a stand alone mode.

1) Fixed colour
There are 20 built-in fixed colours. Press **Menu** until the display shows **C01**. Press **Up** and **Down** to select the desired colour from **C01~C20.**

2) Fade program
There are 9 built-in fade programs. Press **Menu** until the display shows **F01**. Press **Up** and **Down** to select the desired program from **F01~F09.**

The fade time of the program can be changed from **01~99%** (0.5~50 sec). To change the fade times press and hold the menu button. The display now shows **S--**, hold the button until the display shows two numbers. The fade time can be adjusted from **01~99%** by pressing **Up** and **Down.** To confirm and activate speed settings, press **Menu** again.

```
              Add.
             ┌─────┐
          ┌─▶│ 001 │─┐
          │  └─────┘ │
   Set ┌─────┐ Menu ┌─────┐
       │ S-- │      │ C01 │ Color
       └─────┘      └─────┘
          │  ┌─────┐ │
          └─◀│ F01 │─┘
             └─────┘
              Fade
         Menu  Down  Up
          ○    ○    ○
```

DMX mode setting
Before selecting the DMX modes, first disconnect the DMX XLR connector. See page 5 for the lock functionality if the display is off.

Press **Menu** until the display shows **S--**.
Press **Up** and **Down** to select the desired program from **S01~S31**.
Press **Menu** again to confirm it.

S10: Control all LED fixtures in the same channel (default)
S11: Control all LED fixtures independently

S20: Master off (default)*
S21: Master

S30: RGB 3 channels (Default)
S31: RGB dimming, strobe 5 channel

DMX mode **S30**:
Ch 1 = Red LED (single or group)
Ch 2 = Green LED (single or group)
Ch 3 = Blue LED (single or group)

DMX mode **S31**:
Ch 1 = Red LED (single or group)
Ch 2 = Green LED (single or group)
Ch 3 = Blue LED (single or group)
Ch 4 = Master
Ch 5 = Strobe (01~255/slow~fast)

* The slave units must be set on DMX add. 001 when running the Master / Slave function. The Slave unit follows the Master unit's functions. When the PiXelbar 36 is in slave mode and receiving DMX from the Master unit, the display shows --- and the DMX LED is burning.

CHANGING THE LENSES OF THE PIXELBAR 36

Step 1: Make sure no power is connected to the unit.
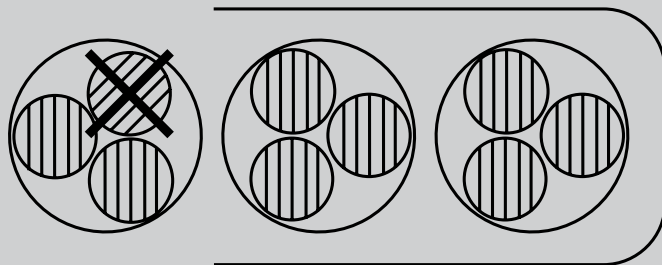Step 2: Remove the side plate of the Pixelbar 36.
Step 3: Slide out the front cover plate of the Pixelbar 36.
Step 4: Carefully remove the lenses. By removing the lenses from the lens holders with a small flat
　　　 screwdriver. Be sure that the lens holder stays on the PCB. (see pictures).

Step 5: Change the lenses in the lens holders.

Note: When mounting the 25 x 45° lens be sure to mount the lens in the correct way; the vertical stripes of the lens have to be at a right angle to the PiXelbar.

Step 6: Slide back the front cover plate.
Step 7: Mount back the side plate and make sure the screws are firmly tightened.

TECHNICAL SPECIFICATIONS

Input voltage: 100 ~ 240 VAC
Power consumption: max 120 VA
LEDs: 36 x Luxeon® I
Colour: RGB
Lens beam angle: 25° (optional 25º x 45º lenses)
Weight: 3,8 kg
Shipping weight: 4,5 kg
Dimensions: 81 x 795 x 77 mm (hxwxd)
Shipping dimensions: 130 x 830 x 150 mm (hxwxd)
Working temperature: -10 °C to +40 °C
Communication: DMX 512 (1990) 3-pin XLR
Housing: First grade aluminum, black coated
Application area: Indoor use only
IP value: IP20