



PicoBlade  
FX 4x10W RGBW  
moving head

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# 1 General notes

This manual contains important instructions for the safe operation of the unit. Read and follow the safety instructions and all other instructions. Keep the manual for future reference. Make sure that it is available to all those using the device. If you sell the unit please make sure that the buyer also receives this manual.

Our products are subject to a process of continuous development. Thus, they are subject to change.

## 1.1 Further information

On our website ([www.thomann.de](http://www.thomann.de)) you will find lots of further information and details on the following points:

|                       |   |
|-----------------------|---|
| Download              | This manual is also available as PDF file for you to download.                                    |
| Keyword search        | Use the search function in the electronic version to find the topics of interest for you quickly. |
| Online guides         | Our online guides provide detailed information on technical basics and terms.                     |
| Personal consultation | For personal consultation please contact our technical hotline.                                   |
| Service               | If you have any problems with the device the customer service will gladly assist you.             |

## 1.2 Notational conventions

This manual uses the following notational conventions:

### Letterings

The letterings for connectors and controls are marked by square brackets and italics.

**Examples:** *[VOLUME]* control, *[Mono]* button.

### Displays

Texts and values displayed on the device are marked by quotation marks and italics.

**Examples:** *'24ch'*, *'OFF'*.

## 1.3 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this manual.

| Signal word   | Meaning  |
|---|--|
| <b>DANGER!</b>  | This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.        |
| <b>WARNING!</b>   | This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.           |
| <b>CAUTION!</b>   | This combination of symbol and signal word indicates a possible dangerous situation that can result in minor injury if it is not avoided.                      |
| <b>NOTICE!</b>  | This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided. |
| Warning signs   | Type of danger   |
|  | Warning – high-voltage.  |

| Warning signs  | Type of danger            |
|--|---------------------------|
|  A yellow triangular warning sign with a black border. Inside the triangle, there is a black silhouette of a crane hook lifting a rectangular load. | Warning – suspended load. |
|  A yellow triangular warning sign with a black border. Inside the triangle, there is a large black exclamation mark.                                | Warning – danger zone.    |

## 2 Safety instructions

### Intended use

This device is intended for use as a freely moving multifunctional spotlight. The device is designed for professional use and is not suitable for use in households. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Extend the operating life of the device by regular breaks and by avoiding frequent switching on and off. The device is not suitable for continuous operation.

**Safety****DANGER!****Danger for children**

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.

**DANGER!****Electric shock caused by high voltages inside**

Within the device there are areas where high voltages may be present. Never remove any covers.

There are no user-serviceable parts inside.

Do not use the device if covers, protectors or optical components are missing or damaged.



### **DANGER!**

#### **Electric shock caused by short-circuit**

Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.



### **WARNING!**

#### **Eye damage caused by high light intensity**

Never look directly into the light source.



### **WARNING!**

#### **Risk of epileptic shock**

Strobe lighting can trigger seizures in photosensitive epilepsy. Sensitive persons should avoid looking at strobe lights.



**WARNING!**

**Risk of injury caused by falling objects**

Make sure that the installation complies with the standards and rules that apply in your country. Always secure the device with a secondary safety attachment, such as a safety cable or a safety chain.

The load capacity of trusses or other fixtures must be sufficient for the intended number of devices. Note that the movement of the head places additional loads on the load-bearing parts.



### **CAUTION!**

#### **Risk of injury due to movements of the device**

The head of the device can move quickly (pan, tilt) and can produce very bright light. This is also valid immediately after you turn on the device, when the device operates in automatic mode or under remote control and when you turn off a DMX controller that is connected to the device. Persons staying near the device could be injured or frightened.

Before you turn on the device and during the operation, always ensure that nobody stays close to the device. If work has to be performed in the area of movement or in the near vicinity of the device, it must remain turned off.



### **NOTICE!**

#### **Risk of fire**

Do not block areas of ventilation. Do not install the device near any direct heat source. Keep the device away from naked flames.

**NOTICE!****Operating conditions**

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.

Only operate the device within the ambient conditions specified in the chapter 'Technical specifications' of this user manual. Avoid heavy temperature fluctuations and do not switch the device on immediately after it was exposed to temperature fluctuations (for example after transport at low outside temperatures).

Dust and dirt inside can damage the unit. When operated in harmful ambient conditions (dust, smoke, nicotine, fog, etc.), the unit should be maintained by qualified service personnel at regular intervals to prevent overheating and other malfunction.

The device must not be moved during use.



### **NOTICE!**

#### **Power supply**

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.



### **NOTICE!**

#### **Possible staining**

The plasticiser contained in the rubber feet of this product may possibly react with the coating of your parquet, linoleum, laminate or PVC floor and after some time cause permanent dark stains.

In case of doubt, do not put the rubber feet directly on the floor, but use felt-pad floor protectors or a carpet.

## 3 Features

Special features of the device:

- Two axes of movement:
  - Tilt (230°)
  - Pan (540°)
- Pan and Tilt invertible
- 4 × 10 W RGBW LED
- RGBW colour mixing
- Very narrow beam angle of only 4°
- Control via DMX (7, 11 or 14 channels), the supplied infrared remote control as well as via buttons and display on the unit
- Automatic mode with 4 preprogrammed shows
- Sound-to-Light with 4 built-in shows
- Electronic dimmer 0 % - 100 %
- Shutter frequency 0...25 Hz
- Omega bracket included

For technological reasons, the light output of LEDs decreases over their lifetime. This effect increases with higher operating temperature. You can extend the service life of the illuminants by providing adequate ventilation and operating the LEDs with the lowest possible brightness.

## 4 Installation

Unpack and carefully check that there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the device against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.



### **WARNING!**

#### **Risk of injury caused by falling objects**

Make sure that the installation complies with the standards and rules that apply in your country. Always secure the device with a secondary safety attachment, such as a safety cable or a safety chain.

The load capacity of trusses or other fixtures must be sufficient for the intended number of devices. Note that the movement of the head places additional loads on the load-bearing parts.



### **CAUTION!**

#### **Risk of injury due to movements of the device**

The head of the device can move quickly (pan, tilt) and can produce very bright light. This is also valid immediately after you turn on the device, when the device operates in automatic mode or under remote control and when you turn off a DMX controller that is connected to the device. Persons staying near the device could be injured or frightened.

Before you turn on the device and during the operation, always ensure that nobody stays close to the device. If work has to be performed in the area of movement or in the near vicinity of the device, it must remain turned off.



### **NOTICE!**

#### **Risk of overheating**

The distance between light output and the illuminated surface must be more than 1.5 m (19.7in).

Provide sufficient ventilation.

The ambient temperature must always be below 40 °C (104 °F).



**NOTICE!**

**Possible damage caused by movements of the device**

Always ensure that enough space is free around the device for the movements of the head (pan, tilt).



**NOTICE!**

**Possible data transmission errors**

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.

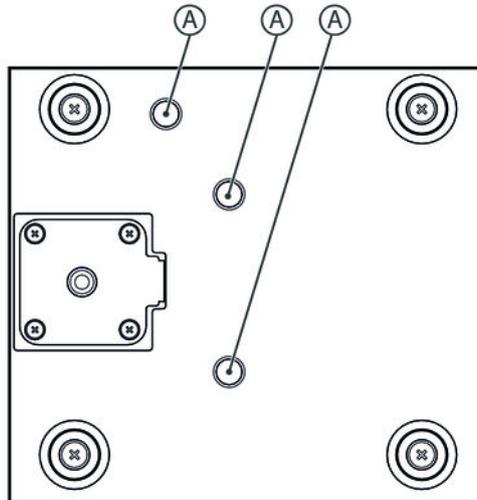


*Please note that this device must not be connected to a dimmer.*

**Mounting options**

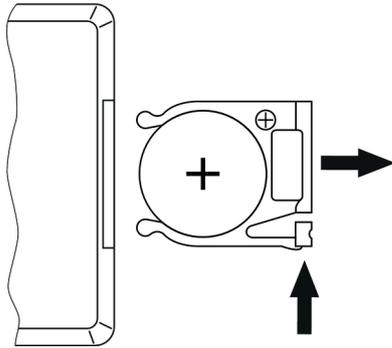
You can install the device on the wall, the ceiling or on the floor.

The threads on the housing bottom (A) are used to secure the supplied Omega bracket or truss clamps.



PicoBlade FX 4x10W RGBW

### Inserting the battery into the remote control



Press the lock of the battery holder to the centre of the housing and pull out the battery holder like a drawer. Insert the battery. The battery is correct if the positive pole points to the housing base of the remote control. Slide the battery holder back into the remote until it clicks into place.

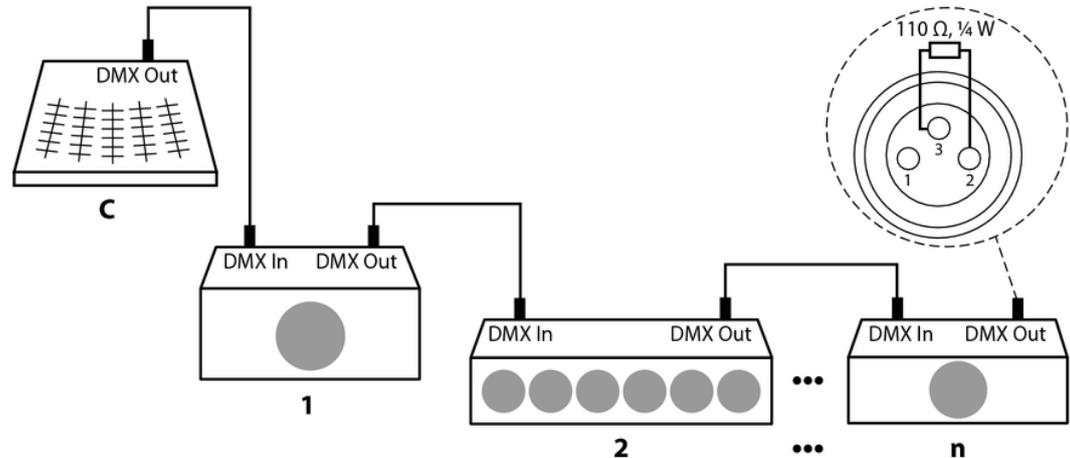
When shipping, the battery is already installed in the remote and protected against discharge by a transparent plastic foil. Remove the plastic foil prior to first use.

## 5 Starting up

Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.

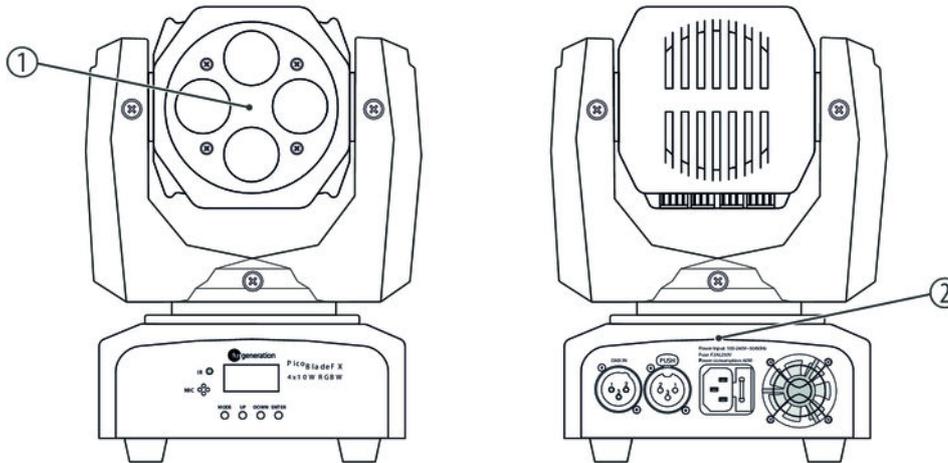
### Connections in DMX mode

Connect the DMX input of the device to the DMX output of a DMX controller or another DMX device. Connect the output of the first DMX device to the input of the second one, and so on to form a daisy chain. Always ensure that the output of the last DMX device in the daisy chain is terminated with a resistor ( $110\ \Omega$ ,  $\frac{1}{4}\text{ W}$ ).



## 6 Connections and controls

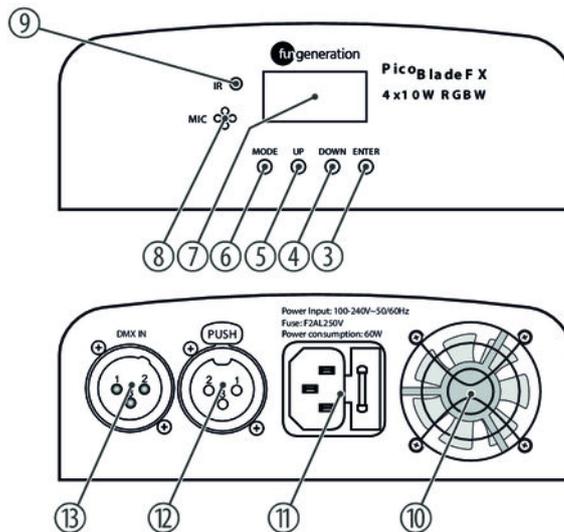
### Overview



PicoBlade FX 4x10W RGBW

|   |                                  |
|---|----------------------------------|
| 1 | Movable spotlight head with LEDs |
|---|----------------------------------|

|   |             |
|---|-------------|
| 2 | Device base |
|---|-------------|

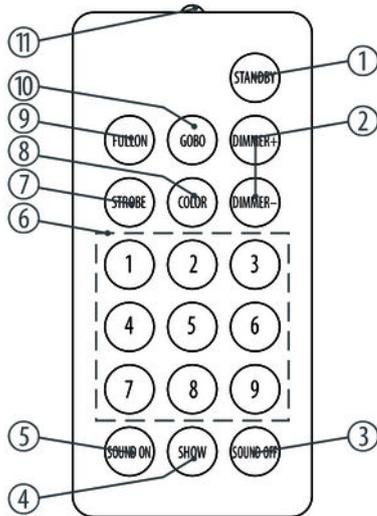


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|    |   |
|----|---|
| 3  | <i>[ENTER]</i><br>Calls up the menu for the respective operation mode, confirms a set value.                                    |
| 4  | <i>[DOWN]</i><br>Decreases the displayed value by one and selects menu items.   |
| 5  | <i>[UP]</i><br>Increases the displayed value by one and selects menu items.   |
| 6  | <i>[MODE]</i><br>Calls up the settings menu, skips one menu level back and closes an opened submenu without saving any changes. |
| 7  | Display   |
| 8  | Microphone for sound control  |
| 9  | <i>[IR]</i><br>Infrared sensor for receiving remote control signals   |
| 10 | Fan   |

|    |   |
|----|---|
| 11 | IEC chassis plug for the mains cable with fuse holder |
| 12 | <i>[DMX OUT]</i><br>DMX output                        |
| 13 | <i>[DMX IN]</i><br>DMX input.                         |

## 6.1 Remote control



To use the remote control, point its infrared diode at the infrared sensor on the unit and press the desired buttons. The maximum operating distance is about 9 m. The device will only respond to the remote control signals if it is not controlled via DMX.

1 *[STAND BY]*

Stops the automatic mode and blackouts the unit. The display shows 'StoP'. In this mode, the device responds to the remote control.

2 *[Dimmer + / -]*

Adjusts the light intensity between 0 and 100 %. Press repeatedly *[Dimmer +]* or keep the button pressed to increase the light intensity. Press repeatedly *[Dimmer-]* or keep the button pressed to decrease the light intensity.

3 *[SOUND OFF]*

Deactivates the sound-control.

|                           |   |                         |                |                         |                |                    |                |                           |                |                         |
|---------------------------|---|-------------------------|----------------|-------------------------|----------------|--------------------|----------------|---------------------------|----------------|-------------------------|
| 4                         | <p><i>[SHOW]</i></p> <p>To call up one of the four preprogrammed automatic shows, press this button followed by the number button <i>[1] – [4]</i> for the desired show. To cancel a show, press <i>[STAND BY]</i>.</p>   |                         |                |                         |                |                    |                |                           |                |                         |
| 5                         | <p><i>[SOUND ON]</i></p> <p>Activates the sound-control.</p>  |                         |                |                         |                |                    |                |                           |                |                         |
| 6                         | <p>Number buttons</p> <p>These buttons allow you to trim the rotation (X) and tilt (Y) of the device head and let you select programmes in show mode:</p>   |                         |                |                         |                |                    |                |                           |                |                         |
|                           | <table border="1"> <tr> <td data-bbox="528 540 895 574"><i>[1]: X- &amp; Y+</i></td> <td data-bbox="895 540 1190 574"><i>[4]: X-</i></td> <td data-bbox="1190 540 1524 574"><i>[7]: X- &amp; Y-</i></td> </tr> <tr> <td data-bbox="528 574 895 608"><i>[2]: Y+</i></td> <td data-bbox="895 574 1190 608"><i>[5]: Centre</i></td> <td data-bbox="1190 574 1524 608"><i>[8]: Y-</i></td> </tr> <tr> <td data-bbox="528 608 895 664"><i>[3]: [X]+ &amp; Y+</i></td> <td data-bbox="895 608 1190 664"><i>[6]: X+</i></td> <td data-bbox="1190 608 1524 664"><i>[9]: X+ &amp; Y-</i></td> </tr> </table> | <i>[1]: X- &amp; Y+</i> | <i>[4]: X-</i> | <i>[7]: X- &amp; Y-</i> | <i>[2]: Y+</i> | <i>[5]: Centre</i> | <i>[8]: Y-</i> | <i>[3]: [X]+ &amp; Y+</i> | <i>[6]: X+</i> | <i>[9]: X+ &amp; Y-</i> |
| <i>[1]: X- &amp; Y+</i>   | <i>[4]: X-</i>  | <i>[7]: X- &amp; Y-</i> |                |                         |                |                    |                |                           |                |                         |
| <i>[2]: Y+</i>            | <i>[5]: Centre</i>  | <i>[8]: Y-</i>          |                |                         |                |                    |                |                           |                |                         |
| <i>[3]: [X]+ &amp; Y+</i> | <i>[6]: X+</i>  | <i>[9]: X+ &amp; Y-</i> |                |                         |                |                    |                |                           |                |                         |
| 7                         | <p><i>[STROBE]</i></p> <p>Enables the Strobe function for the current light scene. Then press one of the number buttons <i>[2] – [9]</i> for the desired strobe frequency. Press the number button <i>[1]</i> to disable the strobe function.</p>   |                         |                |                         |                |                    |                |                           |                |                         |

|    |  |
|----|--|
| 8  | <i>[COLOR]</i><br>To call up various colours for the current light scene. Then press one of the number buttons <i>[1] – [8]</i> for the desired colour.                                    |
| 9  | <i>[FULL ON]</i><br>Press this button to call up the programmed light scene.   |
| 10 | <i>[GOBO]</i><br>Rotation of lenses Press one of the number buttons <i>[1] – [7]</i> for a fixed position, <i>[8]</i> for clockwise rotation or <i>[9]</i> for counter-clockwise rotation. |
| 11 | Infrared diode<br>Sends the infrared signals to the device.  |

## 7 Operating

### 7.1 Starting the device



#### **CAUTION!**

#### **Risk of injury due to movements of the device**

The head of the device can move quickly (pan, tilt) and can produce very bright light. This is also valid immediately after you turn on the device, when the device operates in automatic mode or under remote control and when you turn off a DMX controller that is connected to the device. Persons staying near the device could be injured or frightened.

Before you turn on the device and during the operation, always ensure that nobody stays close to the device. If work has to be performed in the area of movement or in the near vicinity of the device, it must remain turned off.

Connect the device to the power supply to start operation. After a few seconds, the fans start to work, the head moves to the home positions for rotation (pan) and inclination (tilt). After a few more seconds, the display shows 'A001'. The device is now operational.

## 7.2 Main menu

Press *[MODE]* to activate the main menu. Use the button *[UP]* or *[DOWN]* to select a submenu. When the display shows the desired submenu, press *[ENTER]* to open it. To close the main menu, press *[MODE]*. Confirm the changed values with *[ENTER]*.

The following table shows the setting options.

| Main menu       | Menu level 2        | Menu level 3                   | Menu level 4        |
|-----------------|---------------------|--------------------------------|---------------------|
|                 | <b>Meaning</b>      |                                |                     |
| 'DMX menu'      | 'DMX Addr'          | Setting the DMX address        |                     |
|                 |                     | 'DMX Addr : 001...506/502/499' |                     |
|                 | 'Channels Select'   | Selecting a DMX mode           |                     |
|                 |                     | '7 Chnl Mode '                 | 7-channel DMX mode  |
|                 |                     | '11 Chnl Mode '                | 11-channel DMX mode |
| '14 Chnl Mode ' | 14-channel DMX mode |                                |                     |

| Main menu  | Menu level 2     | Menu level 3  | Menu level 4                                |
|------------|------------------|---|---|
| Meaning    |                  |   |   |
|            | 'DMX Break'      | Device behaviour on DMX signal failure                                |   |
|            |                  | 'DMX Break : Hold '   | Retaining last settings                     |
|            |                  | 'DMX Break : Auto '   | Performing an automatic run                 |
|            |                  | 'DMX Break : Sound '  | Performing a sound-controlled automatic run |
|            |                  | 'DMX Break : Stop '   | Stop and take starting position             |
| 'Set Menu' | 'Reload Default' | Resetting the device to factory defaults                              |   |
|            |                  | 'On'  | Perform                                     |
|            |                  | 'Off'   | Don't perform                               |
|            | 'Reset Machine'  | Reset positions and colours to the respectively programmed parameters |   |
|            |                  | 'On'  | Perform                                     |
|            |                  | 'Off'   | Don't perform                               |
|            | 'Master & Alone' | Master and Stand-alone operation                                      |   |

| Main menu | Menu level 2    | Menu level 3                               | Menu level 4  |
|-----------|-----------------|--|---|
| Meaning   |                 |  |   |
|           |                 | 'Master'                                   | Device works as a master and controls further devices |
|           |                 | 'Alone'                                    | Device works in stand-alone mode                      |
|           | 'Auto & Sound'  | Auto operation or sound control            |   |
|           |                 | 'Auto'                                     | Auto operation  |
|           |                 | 'Sound'                                    | Sound control   |
|           | 'MICSense'      | Microphone sensitivity for sound control   |   |
|           |                 | '00' ... '99'                              |   |
|           | 'Clear Display' | Automatic display shutdown when not in use |   |
|           |                 | 'Always On'                                | Display remains on                                    |
|           |                 | 'Delay Off'                                | Display is dimmed after about 25 seconds              |
|           | 'Key Lock'      | Key lock 30 seconds after last keystroke   |   |
|           |                 | 'Lock: On'                                 | Switching on  |

| Main menu | Menu level 2    | Menu level 3                       | Menu level 4   |
|-----------|-----------------|------------------------------------|--|
| Meaning   |                 |                                    |  |
|           |                 | 'Lock: Off'                        | Turning off  |
|           | 'Information'   | Device information                 |  |
|           |                 | 'LED Date: '                       | Date and time of production  |
|           | 'Machine Timer' | Operating hours counter            |  |
|           |                 | 'ThisTime '                        | Time since last powering on the device in minutes  |
|           |                 | 'TotlTime '                        | Total elapsed operating time in hours  |
|           |                 | 'Clear Total '                     | Reset previous operating time to zero.<br>Use [UP] and [DOWN] to enter the password to delete the entire elapsed operating time. Upon delivery, the password is '001'. |
|           | 'Motor Set'     | Behaviour on DMX-controlled motion |  |
|           |                 | 'Move BlackOut '                   | LED 'off' on DMX-controlled motion   |

| Main menu           | Menu level 2        | Menu level 3              | Menu level 4  |   |
|---------------------|---------------------|---------------------------|---|---|
|                     | <b>Meaning</b>      |                           |   |   |
|                     |                     | <i>'Pan/Tilt Reverse'</i> | Reversal of moving direction for rotation and inclination |   |
| <i>'Red Master'</i> | Scene <i>'Red'</i>  |                           |   |   |
|                     | <i>'Scene Menu'</i> | Specifying parameters     |   |   |
|                     |                     | <i>'Dimmer'</i>           | <i>'000' ... '255'</i>                                    | Brightness (0 % to 100 %)               |
|                     |                     | <i>'Strobe'</i>           | <i>'000' ... '255'</i>                                    | Strobe effect with increasing speed     |
|                     |                     | <i>'PanMSB'</i>           | <i>'000' ... '255'</i>                                    | Rough adjustment for rotation (pan)     |
|                     |                     | <i>'PanLSB'</i>           | <i>'000' ... '255'</i>                                    | Fine adjustment for rotation (pan)      |
|                     |                     | <i>'PanSPD'</i>           | <i>'000' ... '255'</i>                                    | Rotation (pan) speed                    |
|                     |                     | <i>'TiltMSB'</i>          | <i>'000' ... '255'</i>                                    | Rough adjustment for inclination (tilt) |

| Main menu             | Menu level 2  | Menu level 3   | Menu level 4   |
|-----------------------|---|--|--|
| Meaning               |   |  |  |
|                       |   | <i>'TiltLSB'</i>   | <i>'000' ... '255'</i><br>Fine adjustment for inclination (tilt) |
|                       |   | <i>'TiltSPD'</i>   | <i>'000' ... '255'</i><br>Inclination (tilt) speed               |
|                       |   | <i>'Lens'</i>  | <i>'000' ... '255'</i><br>Rotation of lenses                     |
|                       |   | <i>'Red'</i>   | <i>'000' ... '255'</i><br>Intensity red (0 % to 100 %)           |
|                       |   | <i>'Green'</i>   | <i>'000' ... '255'</i><br>Intensity green (0 % to 100 %)         |
|                       |   | <i>'Blue'</i>  | <i>'000' ... '255'</i><br>Intensity blue (0 % to 100 %)          |
|                       |   | <i>'White'</i>   | <i>'000' ... '255'</i><br>Intensity white (0 % to 100 %)         |
|                       | <i>'Set Menu'</i>   | Saving the parameters, selection option according to <i>'Scene Menu'</i> |  |
| <i>'Green Master'</i> | Scene <i>'Green'</i> , submenus and selection options according to scene <i>'Red'</i> |  |  |
| <i>'Blue Master'</i>  | Scene <i>'Blue'</i> , submenus and selection options according to scene <i>'Red'</i>  |  |  |
| <i>'White Master'</i> | Scene <i>'White'</i> , submenus and selection options according to scene <i>'Red'</i> |  |  |

| Main menu         | Menu level 2  | Menu level 3          | Menu level 4    |                                     |
|-------------------|---|-----------------------|-----------------|-------------------------------------|
|                   | <b>Meaning</b>  |                       |                 |                                     |
| 'Yellow Master'   | Scene 'Yellow', submenus and selection options according to scene 'Red'   |                       |                 |                                     |
| 'Cyan Master'     | Scene 'Cyan', submenus and selection options according to scene 'Red'     |                       |                 |                                     |
| 'Purple Master'   | Scene 'Purple', submenus and selection options according to scene 'Red'   |                       |                 |                                     |
| 'AllWhite Master' | Scene 'AllWhite', submenus and selection options according to scene 'Red' |                       |                 |                                     |
| 'Prog 1 Mast Aut' | Automatic show no. 1  |                       |                 |                                     |
|                   | 'Program Menu'  | Specifying parameters |                 |                                     |
|                   |   | 'Speed'               | '000' ... '255' | Running speed                       |
|                   |   | 'Dimmer'              | '000' ... '255' | Brightness (0 % to 100 %)           |
|                   |   | 'Strobe'              | '000' ... '255' | Strobe effect with increasing speed |
| 'Set Menu'        | Saving the parameters, selection option according to 'Scene Menu'         |                       |                 |                                     |
| 'Prog 2 Mast Aut' | Automatic show no. 2, submenus and selection options according to no. 1   |                       |                 |                                     |

| Main menu         | Menu level 2   | Menu level 3 | Menu level 4 |
|-------------------|--|--------------|--------------|
|                   | <b>Meaning</b>   |              |              |
| 'Prog 3 Mast Aut' | Automatic show no. 3, submenus and selection options according to no. 1            |              |              |
| 'Prog 4 Mast Aut' | Automatic show no. 4, submenus and selection options according to no. 1            |              |              |
| 'Sound Alone'     | Sound-controlled automatic show, submenus and selection options according to no. 1 |              |              |

### 7.3 Functions in 7-channel DMX mode

| Channel | Value              | Function  |
|---------|--------------------|---|
| 1       | 0...255            | Rotation (pan) (0° up to the maximum value of the Pan range of 540°)      |
| 2       | 0...255            | Inclination (tilt) (0° up to the maximum value of the Tilt range of 230°) |
| 3       | Rotation of lenses |   |
|         | 0...191            | Rotation to a fixed position  |

| Channel | Value               | Function                     |             |
|---------|---------------------|------------------------------|-------------|
|         | 192...222           | Rotation, decreasing speed   |             |
|         | 223...224           | Rotation stopped             |             |
|         | 225...255           | Rotation, increasing speed   |             |
| 4       | 0...255             | Master dimmer 0 – 100%       |             |
| 5       | Strobe effect       |                              |             |
|         | 0...9               | No function (open)           |             |
|         | 10...255            | Strobe effect (1 Hz...25 Hz) |             |
| 6       | Automatic programme |                              |             |
|         | 0...255             | 000...049                    | No function |
|         |                     | 050...059                    | Red         |
|         |                     | 060...069                    | Green       |
|         |                     | 070...079                    | Blue        |
|         |                     | 080...089                    | White       |

| Channel | Value     | Function    |
|---------|-----------|-------------|
|         | 090...099 | Yellow      |
|         | 100...109 | Cyan        |
|         | 110...119 | Purple      |
|         | 120...129 | All white   |
|         | 130...139 | No function |
|         | 140...149 | Programme 1 |
|         | 150...159 | Programme 2 |
|         | 160...169 | Programme 3 |
|         | 170...179 | Programme 4 |
|         | 180...233 | No function |
|         | 234...236 | Reset       |
|         | 237...249 | No function |

| Channel | Value   | Function                           |
|---------|---------|------------------------------------|
|         |         | 250...255      Sound control       |
| 7       | 0...255 | 000...255      Speed / Sensitivity |

## 7.4 Functions in 11-channel DMX mode

| Channel | Value              | Function  |
|---------|--------------------|---|
| 1       | 0...255            | Rotation (pan) (0° up to the maximum value of the Pan range of 540°)      |
| 2       | 0...255            | Inclination (tilt) (0° up to the maximum value of the Tilt range of 230°) |
| 3       | Rotation of lenses |   |
|         | 0...191            | Rotation to a fixed position  |
|         | 192...222          | Rotation, decreasing speed  |
|         | 223...224          | Rotation stopped  |

| Channel | Value               | Function                     |             |
|---------|---------------------|------------------------------|-------------|
|         | 225...255           | Rotation, increasing speed   |             |
| 4       | 0...255             | Master dimmer 0 – 100%       |             |
| 5       | Strobe effect       |                              |             |
|         | 0...9               | No function (open)           |             |
|         | 10...255            | Strobe effect (1 Hz...25 Hz) |             |
| 6       | 0...255             | Intensity red                |             |
| 7       | 0...255             | Intensity green              |             |
| 8       | 0...255             | Intensity blue               |             |
| 9       | 0...255             | Intensity white              |             |
| 10      | Automatic programme |                              |             |
|         | 0...255             | 000...049                    | No function |
|         |                     | 050...059                    | Red         |
|         |                     | 060...069                    | Green       |

| Channel | Value     | Function    |
|---------|-----------|-------------|
|         | 070...079 | Blue        |
|         | 080...089 | White       |
|         | 090...099 | Yellow      |
|         | 100...109 | Cyan        |
|         | 110...119 | Purple      |
|         | 120...129 | All white   |
|         | 130...139 | No function |
|         | 140...149 | Programme 1 |
|         | 150...159 | Programme 2 |
|         | 160...169 | Programme 3 |
|         | 170...179 | Programme 4 |
|         | 180...233 | No function |
|         | 234...236 | Reset       |

| Channel | Value   | Function  |                     |
|---------|---------|-----------|---------------------|
|         |         | 237...249 | No function         |
|         |         | 250...255 | Sound control       |
| 11      | 0...255 | 000...255 | Speed / Sensitivity |

## 7.5 Functions in 14-channel DMX mode

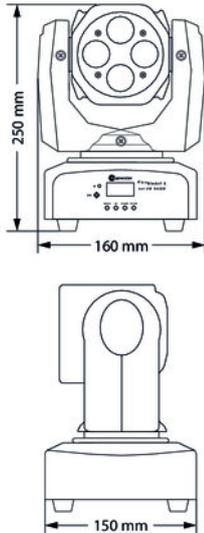
| Channel | Value   | Function  |
|---------|---------|---|
| 1       | 0...255 | Rotation (pan) (0° up to the maximum value of the Pan range of 540°)      |
| 2       | 0...255 | Fine adjustment rotation (pan)  |
| 3       | 0...255 | Inclination (tilt) (0° up to the maximum value of the Tilt range of 230°) |
| 4       | 0...255 | Fine adjustment inclination (tilt)  |
| 5       | 0...255 | Motor speed (slow to fast)  |

| Channel | Value              | Function                     |
|---------|--------------------|------------------------------|
| 6       | Rotation of lenses |                              |
|         | 0...191            | Rotation to a fixed position |
|         | 192...222          | Rotation, decreasing speed   |
|         | 223...224          | Rotation stopped             |
|         | 225...255          | Rotation, increasing speed   |
| 7       | 0...255            | Master dimmer 0 – 100%       |
| 8       | Strobe effect      |                              |
|         | 0...9              | No function (open)           |
|         | 10...255           | Strobe effect (1 Hz...25 Hz) |
| 9       | 0...255            | Intensity red                |
| 10      | 0...255            | Intensity green              |
| 11      | 0...255            | Intensity blue               |
| 12      | 0...255            | Intensity white              |

| Channel   | Value               | Function  |             |
|-----------|---------------------|-----------|-------------|
| 13        | Automatic programme |           |             |
|           | 0...255             | 000...049 | No function |
|           |                     | 050...059 | Red         |
|           |                     | 060...069 | Green       |
|           |                     | 070...079 | Blue        |
|           |                     | 080...089 | White       |
|           |                     | 090...099 | Yellow      |
|           |                     | 100...109 | Cyan        |
|           |                     | 110...119 | Purple      |
|           |                     | 120...129 | All white   |
|           |                     | 130...139 | No function |
|           |                     | 140...149 | Programme 1 |
| 150...159 | Programme 2         |           |             |

| Channel | Value   | Function  |                     |
|---------|---------|-----------|---------------------|
|         |         | 160...169 | Programme 3         |
|         |         | 170...179 | Programme 4         |
|         |         | 180...233 | No function         |
|         |         | 234...236 | Reset               |
|         |         | 237...249 | No function         |
|         |         | 250...255 | Sound control       |
| 14      | 0...255 | 000...255 | Speed / Sensitivity |

## 8 Technical specifications



|                                |  |
|--------------------------------|--|
| Number of DMX channels         | 7, 11 or 14, depending on operating mode |
| LED                            | 4 × 10 W RGBW LED                        |
| Voltage supply                 | 100 – 240 V ~ 50/60 Hz                   |
| Power consumption              | 60 W                                     |
| Fuse                           | 5 mm × 20 mm, 2 A, 250 V, fast-acting    |
| Battery for the remote control | 1 × CR 2025 (Lithium, 3 V)               |
| Protection class               | IP20                                     |
| Dimensions (W × H × D)         | 160 mm × 250 mm × 150 mm                 |
| Weight                         | 3 kg                                     |

PicoBlade FX 4x10W RGBW

### Environmental conditions

|                   |                      |
|-------------------|----------------------|
| Temperature range | 0 °C...40 °C         |
| Relative humidity | 50 %, non-condensing |

# 9 Plug and connection assignments

## Introduction

This chapter will help you select the right cables and plugs to connect your valuable equipment so that a perfect light experience is guaranteed.

Please take our tips, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into a socket, the result of an incorrect connection may be a destroyed DMX controller, a short circuit or 'just' a not working light show!

## DMX connections



The unit offers a 3-pin XLR socket for DMX output and a 3-pin XLR plug for DMX input. Please refer to the drawing and table below for the pin assignment of a suitable XLR plug.

| Pin | Configuration                         |
|-----|---------------------------------------|
| 1   | Ground, shielding                     |
| 2   | Signal inverted (DMX-, 'cold signal') |
| 3   | Signal (DMX+, 'hot signal')           |

## 10 Troubleshooting



### **NOTICE!**

#### **Possible data transmission errors**

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.

In the following we list a few common problems that may occur during operation. We give you some suggestions for easy troubleshooting:

| Symptom  | Remedy  |
|--|---|
| The unit does not work, no light, the fan does not run | Check the mains connection and the main fuse.   |
| No response to the DMX controller                      | 1. Check the DMX connectors and cables for proper connection.   |
|  | 2. Check the address settings and the DMX polarity.   |
|  | 3. Try using another DMX controller.  |
|  | 4. Check to see if the DMX cables run near or alongside to high voltage cables that may cause damage or interference to DMX interface circuits. |

If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at [www.thomann.de](http://www.thomann.de).

## 11 Cleaning

### Optical lenses

Clean the optical lenses, that are accessible from the outside, regularly in order to optimize the light output. The frequency of cleaning depends on the operating environment: wet, smoky or particularly dirty surroundings can cause more accumulation of dirt on the optics of the device.

- Clean with a soft cloth using our lamp and lens cleaner (item no. 280122).
- Always dry the parts carefully.

### Fan grids

The fan grids of the device must be cleaned on a regular basis to remove dust and dirt. Before cleaning, switch off the device and disconnect AC-powered devices from the mains. Use a lint-free damp cloth for cleaning. Never use solvents or alcohol for cleaning.

## 12 Protecting the environment

### Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose these materials with your normal household waste, but make sure that they are fed to a recovery. Please follow the notes and markings on the packaging.

### Disposal of batteries



Batteries must not be disposed of as domestic waste or thrown into fire. Dispose of the batteries according to national or local regulations regarding hazardous waste. To protect the environment, dispose of empty batteries at your retail store or at appropriate collection sites.

### Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose with your normal household waste.

Dispose this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.

PicoBlade FX 4x10W RGBW





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