# FOS

## technologies

# FOS Pico Beam

# PRODUCT SPECIFICATIONS

*Voltage:* 90/240 Volt AC, 50/60 Hz.

*Power Consumption:* 130 Watt.

*Light Source:* 1x 60 Watt RGBW Osram LED

*Continuous Pan / Tilt Rotation*

*Control:* Auto, Music, DMX

*DMX Channels:* 18

*Protection Class:* IP20 (for indoor use only)

*Width:* 230 mm

*Depth:* 230 mm

*Height:* 280 mm

*Weight:* 4,6 Kg

# SAFETY WARNING

This product must be installed by a qualified professional. All maintenance must be carried out by a qualified electrician. A minimum distance of 0.5 m must be maintained between the equipment and a combustible surface. The product must always be operated in a well-ventilated area. DO NOT stare directly into the light source. Always disconnect the power before carrying out any maintenance. The earth must always be connected to the ground. Ensure that all parts of the equipment are kept clean and free of dust.

# PROTECTION AGAINST SOLIDS AND WATER
Only for IP-rated fixtures

The protection level of a housing is set by applied standards. For classification there is used the IP-Code. It contains the declaration „IP"and two following numbers. The first number characterizes the protection against harmful effects of solids, the second is rating the water protection. It is important to distinguish whether encapsulation and harmful effect! There can be housing that is not capsuled completely but still avoids harmful effect of solids or water.

PROTECTION EXAMPLES:

IP20: Protection against intruding objects >12,5mm „Finger protected "; No waterproofing. **TYPICAL PROTECTION FOR INDOOR USE FIXTURES**

IP33: Protection against intruding objects >2,5mm; Falling water within an angle of 60° has no harmful effect **TYPICAL PROTECTION OF LED-LIGHTS USING RECESSED POWERCON AND DMX SOCKET**. This protection is linked to the mounting position of the fixture and always refers to typical mounting situation like a Floor spot used standing on the ground.

IP54: complete protection against solids and low-pressure water from any side **THIS TYPE OF FIXTURES CAN BE USED UNDER NORMAL OUTDOOR CONDITIONS**.

IP65: shielded against dust and pressurized water from any side. **TYPICAL PROTECTION FOR OUTDOOR RATED EVENTFIXTURES USING WATERPROOFED POWER AND SIGNAL LINK.**

IP67: shielded against dust and protected for accidental briefly submerge. **PROTECTION AGAINST ACCIDENTIAL SUBMERGING ON TEMPORARY FLOODED AREA.**

# TEMPORARY USE

Event equipment is designed for temporary use. This are typical purpose as concerts, festivals, theatre, clubs and disco use and referable venues. Long-term use, specially under outdoor conditions and fixed outdoor installation can bring damage in aging materials and affect the coated surface. Sealings as well as cables are made from rubber material and will age by long-term UV-emission as sunlight and should be checked frequently.

# LIMITATIONS OF IP PROTECTION

IP-Rating doesn´t mean unlimited outdoor use and protection against any kind of environmental influence! Especially sunlight and included UV will bring accelerated aging. Some fixtures need special parts or processes to fit the rated IP-Protection, like mounting covers or caps or similar. Sealings and other plastic or rubber materials are aging parts. They must be checked frequently to ensure the protection and safety of the fixtures. Also specified torque of screws can affect protection!

# Installation

**Hanging:** The fixture can be mounted in a hanging position using the supporting bracket. The bracket should be secured to the mounting truss or structure using a standard mounting clamp. Please note that when hanging the unit, a safety cable should also be used.

**UPRIGHT:** The fixture can be mounted in an upright or sitting position using the supporting brackets.

**NOTE!** If the signal cable is over 60 m between the DMX512 controller and fixture or between two fixtures, then a DMX signal amplifier is needed as well.

# Menu Screen

You can easily navigate through menu's options with the four buttons under the screen. Navigating in the menu is simple! With the Up / Down buttons, you are moving through menu's choices, pressing Enter, you are entering the sub menu of the option you have chosen, with the Up / Down buttons you're moving through the sub menu's options, with Enter, you are confirming your choice. The **FOS Pico Beam** offers the following options:

**Address Set:** Set the DMX address

**Run Mode:** Choose between the following working modes:

- *DMX512*
- *Slow (Auto)*
- *Fast (Auto)*
- *Sound*
- *Slave*

**Invert PAN**

**Invert TILT**

**Display Set:** Select YES, if you would like the LCD screen to stay ON all the time, or NO, in which the screen will goes off after 20 seconds, if a button will not be pressed.

**Sound Sense:** Adjust the microphone sensitivity from 0 to 100%

**Factory Default:** Yes / No

**Reset:** Yes / No

# Channel Modes

1. **Pan**
   - 0 – 255 Pan 540° movement.
2. **Pan Continuous Rotation**
   - 0 – 55 No Rotation.
   - 56 – 155 CW Infinity Rotation.
   - 156 – 255 CCW Infinity Rotation.
3. **Pan Fine**
4. **Tilt Movement**
   - 0 – 255 Tilt Movement
5. **Tilt Continuous Rotation**
   - 0 – 55 No Rotation
   - 56 – 155 CW Infinity Rotation.
   - 156 – 255 CCW Infinity Rotation.
6. **Tilt Fine**
7. **Pan/Tilt Speed:** Speed adjustment from fast to slow.
8. **Master Dimmer**
9. **Shutter:**
   - **0 – 55** Shutter Open
   - **56 – 155** Synchronous Strobe effect from slow to fast.
   - **156 – 205** Random Strobe effect.
   - **206 – 255** Pulse effect.
10. **Red**
11. **Green**
12. **Blue**
13. **White**
14. **Color Palette** (in combination with channel 17):
    - **0 – 24** Red
    - **25 – 49** Green
    - **50 – 74** Blue
    - **75 – 99** White
    - **100 – 124** Orange
    - **125 – 149** Magenta
    - **150 – 174** Cyan

- **175 – 199** Pale Red
- **200 – 224** Pale Cyan
- **225 – 249** Pale Green
- **250 – 255** Color change

15. **Dynamic effects:**
    - **0 – 24** effect 1
    - **25 – 49** effect 2
    - **50 – 74** effect 3
    - **75 – 99** effect 4
    - **100 – 124** effect 5
    - **125 – 149** effect 6
    - **150 – 174** effect 7
    - **175 – 199** effect 8
    - **200 – 224** effect 9
    - **225 – 255** effect 10

16. **Dynamic effects (color fading) speed:** adjustable speed from slow to fast.

17. **Macro function:**
    - **0 – 49** No function
    - **50 – 99** Internal Program 1, in combination with channel 14
    - **100 – 149** Internal Program 2, in combination with channels 15 & 16
    - **150 – 199** Auto
    - **200 – 255** Sound Active.

18. **Reset:**
    - **0 – 250** No function
    - **251 – 255** Reset (keep the value for 3 seconds)

# General Information

## Replacing a fuse:

Always disconnect the fixture from main power before replacing a fuse. Use only the appropriate fuse, with the same type and rating. A fuse with different rating, can damage the fixture in case of failure.

## Risk of electric shock and / or fire:

The fixture must be earthed, supplied always with its nominal voltage and cleaned periodically from dust. For cleaning use only, a moist cloth. Never use liquids or force water. After cleaning, let the fixture dry before use.