



## FOS Pico Pro



## PRODUCT SPECIFICATIONS

## TECHNICAL SPECIFICATION

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

**Consumption:** 150 Watt max.

**Light Source:** 1x 60 Watt 4 in 1 Osram LED (RGBW).

**Beam Angle:** 5°.

**Pan & Tilt:** Infinite & Standard.

**Control:** DMX512, stand alone, Sound.

**DMX Channels:** 15 & 17 control channels.

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

**Width:** 250 mm

**Depth:** 260 mm

**Height:** 381 mm

**Weight:** 4,5 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 ACCIDENTAL 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.

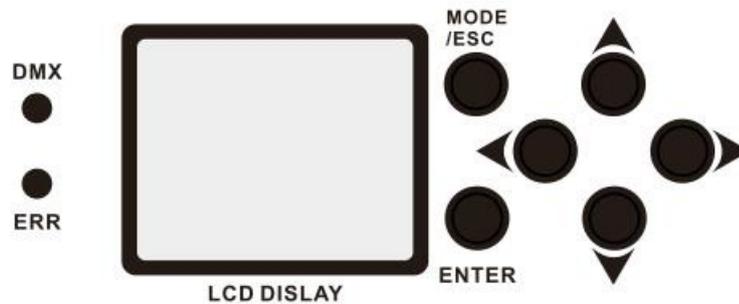


**NOTE!** If the signal cable is over 60 m between the DMX512 controller and fixture or between two fixtures, then a DMX signal amplifier is needed as well.

# Product View

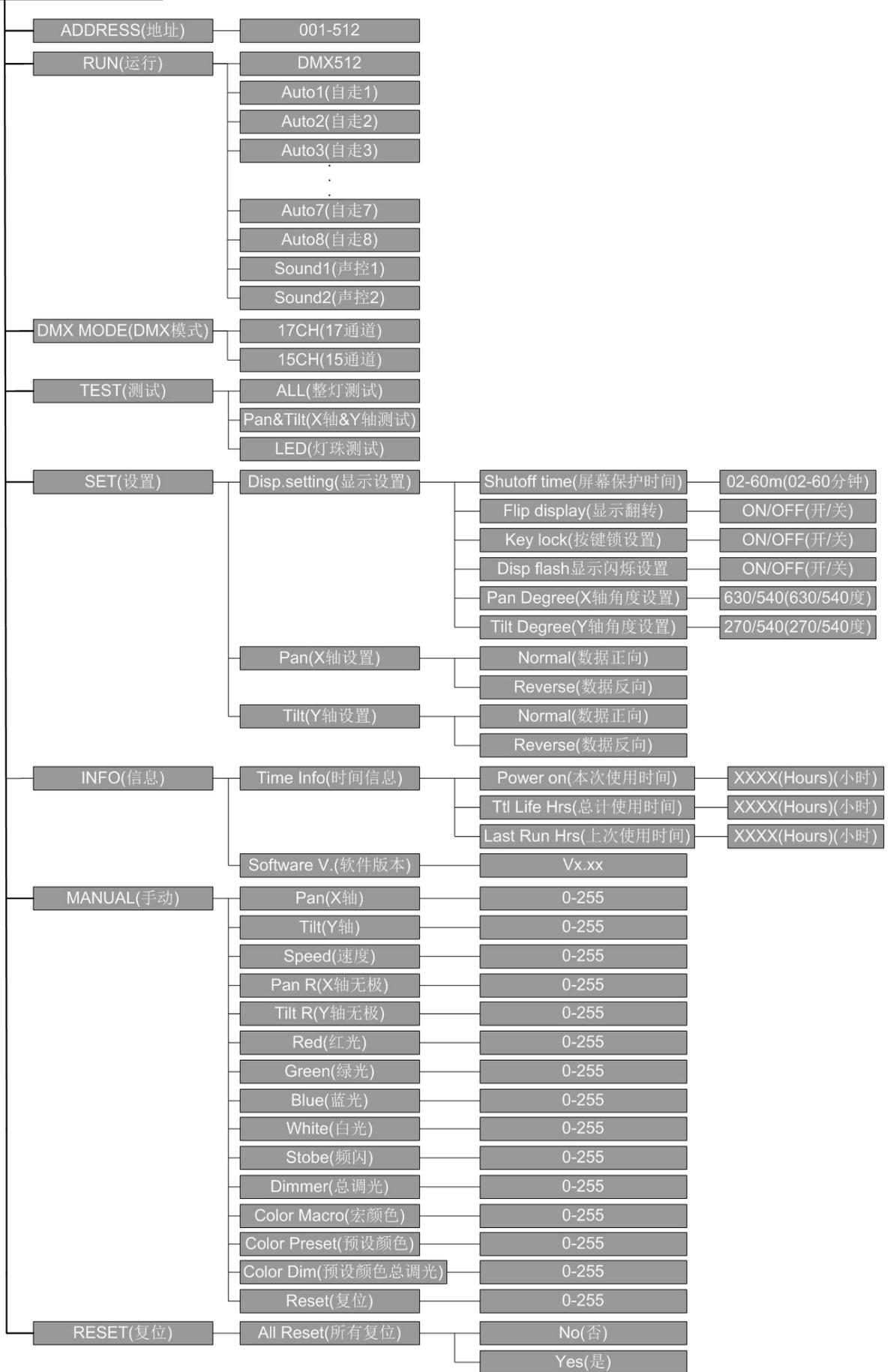


# Menu Operation



- DMX : When DMX Signal in, the LED will be flash
- ERR: When the Light error, the LED will be flash
- Mode/ESC
- ENTER
-  Left button
-  Right button
-  Up button
-  Down button

# Menu Tree



# Channel Modes

DMX Channel function and values:

15/17 DMX Channels			
Mode/Channel		Value	Function
17CH	15CH		
1	1		PAN Movement 8bit
		0-255	Pan Movement
2			Pan Fine 16bit
		0-255	Fine control of Pan Movement
3	2		TILT Movement 8bit
		0-255	Tilt Movement
4			Tilt Fine 16bit
		0-255	Fine control of Tilt Movement
5	3		Speed Pan/Tilt movement
		0-225	max to min speed
		226-235	Blackout by movement
		236-255	No function
6	4		Pan Motor continuous rotation
		0-127	no function
		128-189	Forwards Pan rotation from fast to slow
		190-193	No rotation
		194-255	Backwards Pan rotation from slow to fast
7	5		Tilt Motor continuous rotation
		0-127	No function
		128-189	Forwards Tilt rotation from fast to slow
		190-193	No rotation
		194-255	Backwards Tilt rotation from slow to fast
8	6		Red LED
		0-255	Red(0-Black, 255-100% Red)
9	7		Green LED
		0-255	Green (0-Black, 255-100% Green)

10	8		Blue LED
		0-255	Blue (0-Black, 255-100% Blue)
11	9		White LED
		0-255	White (0-Black, 255-100% White)

12	10		Shutter, Strobe
		0-31	Led turn off
		32-63	Led turn on
		64-95	Strobe effect slow to fast
		96-127	Led turn on
		128-159	Pulse-effect in sequences
		160-191	Led turn on
		192-223	Random strobe effect slow to fast
		224-255	Led turn on
13	11		Dimmer intensity:
		0-255	Intensity 0 to 100%
14	12		Color Macro
		0-7	No function
		8-39	From RED to YELLOW
		40-71	From YELLOW to GREEN
		72-103	From GREEN to CYAN
		104-135	From CYAN to BLUE
		136-167	from BLUE to MAGENTA
		168-199	from MAGENTA to RED
		200-231	from RED to WHITE
		232-255	Cross fading colours from slow to fast
15	13		Color Presets
		0-4	No function
		5-9	White2700k
		10-14	White3200k
		15-19	White4300k
		20-24	White5600k
		25-29	White6500k
		30-34	White8000k
		35-39	Yellow
		40-44	Magenta
		45-49	Cyan
		50-54	Salmon
		55-59	Turquoise
		60-64	Light Green
		65-69	Steel Blue
		70-74	Orange
		75-79	Straw
		80-84	Pale Lavander
		85-89	Pink
		90-94	Red
95-99	Green		
100-104	Blue		
105-109	Natural White		
110-255	Reserved		

16	14		Color Presets Dimmer
		0-255	Dimmer 100 to 0%
17	15		Reset ,internal Auto
		0-79	Normal
		80-84	All motor reset
		85-99	No function
		100-119	Internal Auto1
		120-139	Internal Auto2
		140-159	Internal Auto3
		160-179	Internal Auto4
		180-199	Internal Auto5
		200-219	Internal Auto6
		220-239	Internal Auto7
		240-255	Internal Auto8

## 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.

## Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

1. The unit does not work, no light and the fan does not work

- check the connection of power and main fuse.
- Measure the mains voltage on the main connector.
- Check the power on Led.

2. Not responding to DMX controller

- DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
- If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
- If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
- Try to use another DMX controller.
- Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

3. Some units don't respond to the easy controller

- You may have a break in the DMX cabling. Check the LED for the response of the master/slave mode signal.
- Wrong DMX address in the unit. Set the proper address.

4. One of the channels is not working well

- The stepper motor might be damaged, or the cable connected to the PCB is broken.
- The motor's drive IC on the PCB might be out of condition

5. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.