YPOC 575

Instruction Manual

from software version 1.0
(instruction version 1.25)

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PRODUCTS

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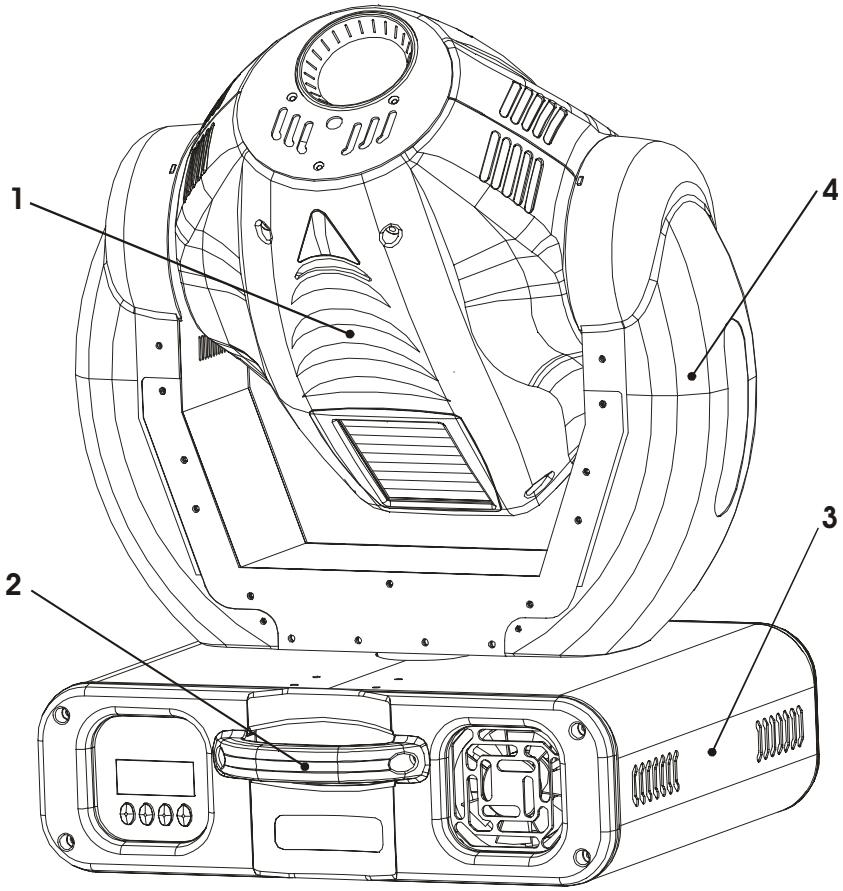
This side is intentionally unlabelled.

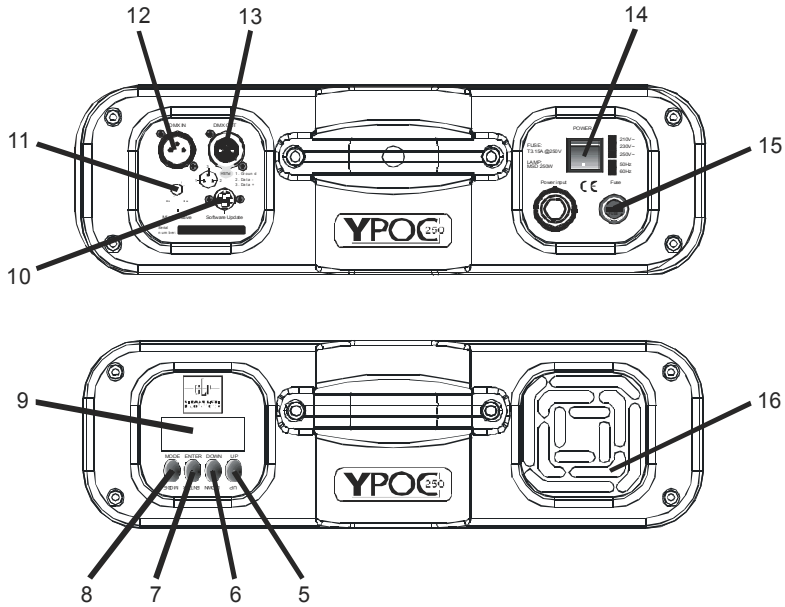
Table of contents

1 Description of Device



1. Moving Head
2. Carrying handles
3. Base
4. Arm

5. Up- button
6. Down- button
7. Enter- button
8. Mode- button
9. LED- Display
10. Software-Update connector
11. Microphone- Intensity
12. DMX- Input
13. DMX- Output
14. Power On/Off
15. Fuse F3,15 A
16. Fan (air inlet)



1.1 Safety Instructions

The **YPOC 575** is a High-Tech Product. To guarantee a smooth operation, it is necessary to keep following rules.
The manufacturer of this device will not take responsibility of damages through disregard of the information in this manual. Warranty adjustments will be canceled.

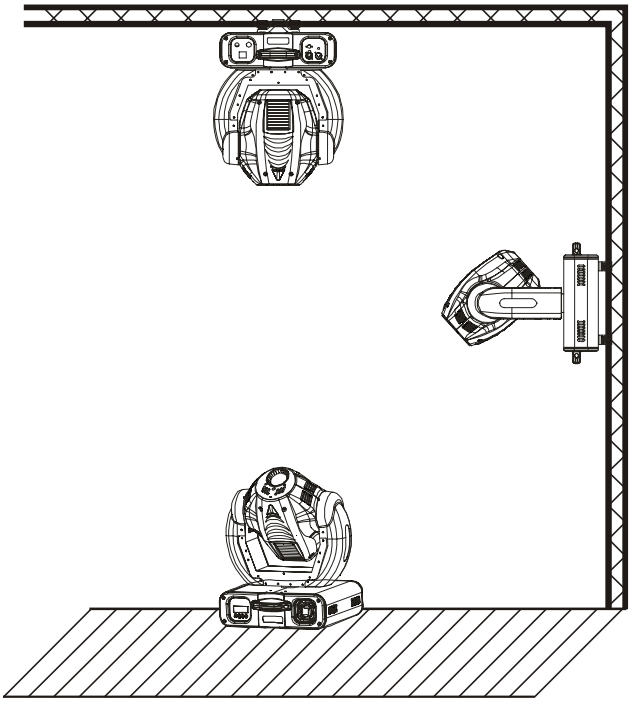
1. Make sure before putting into operation, that the fan and the air inlets are clean and not blocked by anything.
2. **Attention:** Don't touch the device during the operation. This can cause injuries or damages.
3. **Unplug the YPOC 575 from the AC outlet before any service.**
4. It is necessary to wait at least 30 minutes after disconnecting the AC before you open the **YPOC 575**. Please do not touch the bulb of the lamp if you are not absolutely sure it is cold. **-Danger of BURNING-**
5. Never look directly into the beam of the lamp. You risk injury of your retina and blindness.
6. Pay attention of the maximum lamp operation time. You have to change it if the lamp shows any deformations or damages. The same is with all glass components, color filters, lenses and mirrors.
7. To allow a secure operation, follow also the Installation guide described in chapter 2. Operating the **YPOC 575** without suited safety aids like Safety cables or clamps/hooks can increase the risk of an accident.
8. The installation should be done by qualified staff only. You need to pay attention to the common rules of technology that are not explicit mentioned in this manual.
9. Use only original spare parts. Any structural modification will cancel all warranty adjustments.

Attention: Laser of class 3R may injure your retina after a short residence time even without any optical instrument. **Avoid any direct exposure of your eyes!**

2 Preparation and Installation

2.1 Mounting

The **YPOC 575** is fully operational whether it hangs or is mounted to the wall. It can also be operated while standing on the floor. Keep a safety distance of 0.5 m towards any easy inflammable materials (decoration etc.). Install a safety wire that can hold at least 10 times the weight of the fixture. Never use the carrying handles for secondary attachment.



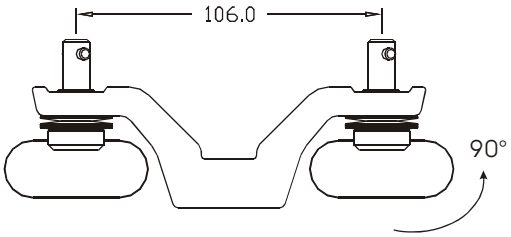
Pay attention to the regulations of: BGV C1 (former VBG 70) and DIN VDE 0711-217. Regulations of show laser BGV B2 (11.2001), E DIN 56912 part 6, DIN-EN 60825 part 1+2. The installation should be done by qualified staff only.

2.1.1 Clamps

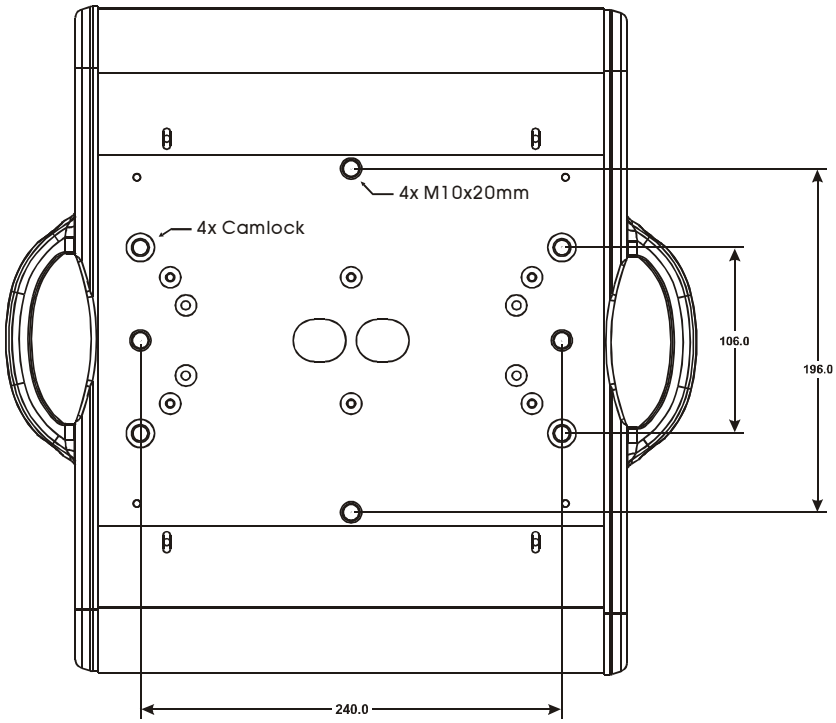
There are two major possibilities to mount the **YPOC 575** together with clamps. Camlock system or direct mounting of clamps. In both cases you have to regard a sufficient stability of the system. For installation instructions please see also printing on the backside of the case.

a) Camlock System: This system allows you a fast and efficient setup of clamps. Attach the two camlocks to designated position on the backside

of the case and close the locks by turning them 90°. Verify the secure fit of the camlock system. The clamps themselves are directly attached permanently on the camlocks.



b) Use two clamps direct on the backside of the **YPOC 575** to mount the unit on a truss (each two opposite threads max. M10x20).



2.2 Secure the YPOC 575

Regardless of the rigging of the **YPOC 575** you have to use a stipulated safety wire. Therefore you have to thread to safety wire through to two provided holes on the backside of the fixture and connect it with the truss-support. Pay attention to a safe and proper fastening.

2.3 Connections

2.3.1 Power supply

230 Volt, 50 Hz,

Connected load 700W <=> 3.1 A (blind current compensation).

or 115V, 60 Hz

Connected load 700W <=> 6.2 A (blind current compensation).

Please see printing on the case for the right Power supply !

2.3.2 DMX

DMX 512 Standard input/output. See also printing on the case for the right pin assignment.

[+] = Pin 3 / [-] = Pin 2 / [Ground] = Pin 1

The DMX- Addressing starts at the DMX- Address [001].

2.4 Fuse

The **YPOC 575** electronic system is protected by a 5x20 mm fuse.

230V / T 5A (EU model) or 115V / T 10A (US model)

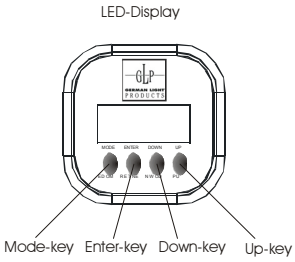
Please see the printing on the **YPOC 575** for more details.

Attention:

- **Disconnect AC outlet before changing a fuse!**
- **Use only the original declared fuse type!**

3 The Menu Field

You find the control board on the side part of the base. It allows you to make all necessary adjustments of the **YPOC 575.** With the **Mode-**key you get into the main menu. Afterwards you can navigate through the menu with the **Up/Down-**keys. Push the **Enter-**key to get in the next menu level or to confirm your settings. Make them and set functions **ON/OFF** with the **Up/Down-**keys. Confirm and save it with the **Enter-**key (the display shows *OK*). Push the **Mode-**key to cancel the entry and go back to the main menu.



← DOWN - UP →

Level 1	Level 2	Level 3	Remark
DOOI			Define the DMX start address
TEST			Test program of all functions
AUDI	ASLW		Self-running audio program (slow)
	AFST		Self-running audio program (fast)
	MSTR		Master for the audio program
	SVPT		Basic position for the audio program
	SIZE		Size for the audio program (NORM-BIG-MIDL-SMAL)
LAMP			Switch on/of the lamp direct at the **YPOC 575**
RESE			Reset
TIME	POWR		Running time of the fixture (no destructible)
	LAI		Running time of the lamp (erasable)
	LA2		Running time of the lamp (no destructible)
RPAN			Reverse Pan-direction
RTLT			Reverse Tilt-direction
SPEC	MANU		Manual drive of all device functions
	LAAU		Automatic lamp start
	DLOF		Switch off lamp via DMX
	DMXI		Reed out actual DMX-values
	DISP	D ON	Display On/Off
		REV	Twist the display
	TEMP		Reed out internal temperature
	FANS	HIGH	Maximum cooling fan velocity
		REG	Automatic cooling fan control
		LOOF	Low cooling fan speed → lamp off
		LOHI	Low cooling fan speed → automatic
	ADJU	CODE XXXX	Use the code for entering the calibration menu (for authorized person only)
		COLO	Calibration of the color wheel
		GOBI	Calibration of the gobo wheel 2
		GOB2	Calibration of the gobo wheel 2
		PRIS	Calibration of the prism wheel
		SHTR	Calibration of the shutter
		POFS	Calibration of the Pan-Offsets
		TOFS	Calibration of the Tilt-Offsets
		ARES	Adjust Reset (wheels stand still after the reset)
		CLRE	Settings in the internal memory (super-user only)
		FACC	Must read *ON*. Protected with a code.
		VTIL	Software version Tilt-board
		VTOP	Software version Head-board
		VBOT	Software version Base-board
		FASP	Indication of the Fan speed
	DFSE		Call on the default function values
	FEED		Pan/Tilt feedback (error correction) On/Off
	EFLG		Correction of faults

3.1 *Adjust the DMX- Address [DDD I]*

Right after turning on the **YPOC 575** you can see the current DMX- Address. If there is no DMX- Signal the display flashes.

For the address setting please follow this procedure:

1. Switch On the **YPOC 575** and wait until the fixture reset has finished ('RESE' is flashing in the display).
2. Press the **Mode**-key in order to access the main menu. Browse through the menu by pressing the **Up/Down**-keys until the display shows DDD I. Confirm by pressing the **Enter**-key (the decimal point is flashing)
3. Use the **Up/Down**-keys to select the desired address. Confirm the setting by pressing the **Enter**-key (the display shows OK) or press the **Mode**-key to cancel.

The DMX- Address is stored also while switching off the **YPOC 575!**

3.2 *The Test Program [TEST]*

The **Test**-Program allows you to run a complete self test procedure of all functions. Press **Enter** to confirm or **Mode** to cancel.

3.3 *The Audio Program [AUDI]*

The **Audio**-menu allows you to run a stand alone audio program. This chaser can run either fast or slow. AFST: Every soundimpulse on step of the chaser. ASLW: Every second soundimpulse one step of the chaser.

Additional you can choose a basic position for this audio chaser. Use therefore either the internal manual mode or an external controller to set the desired Pan/Tilt position. Confirm this setting in the SNPT menu by pressing the **Enter**-key.

You can also set the size of the audio chaser in the SIZE menu. You have the choice between: NORM (no basic position has to bee chosen), 'BIG', 'MIDL' and 'SMAL').

If you want to run the systems simultaneously, one of the **YPOCs** must be switched as the master. All others must be "Slave" Master = OFF. **Notice:** The Audio function is only working if **no** DMX is connected. This function can work e.g. on small events or as an emergency program.

3.4 Lamp On/Off [LAMP]

Use the **Up/Down-**keys to select lamp *ON* or lamp *OFF* Press **Enter** to confirm or **Mode** to cancel and return to the main menu. (The lamp *OFF* command is only working if the shutter is closed at the same time. Use an external controller or the manual drive mode, see 3.9.1)

3.5 Reset [RESE]

Press the **Enter-**key to run a reset of all fixture functions (*RST* is shown in the display).

3.6 Running time of lamp and unit [TIME]

By this option can read out three different running times of the fixture.

POWR	Running time of the fixture (no destructible).
LA 1	Running time of the lamp (erasable). Push the **Up/Down-**keys at one time to delete this running time.
LA 2	Running time of the lamp (no destructible).

3.7 Invert Pan Movement [RPAN]

This function allows you to invert the Pan movement. Use the **Up/Down-**keys to select invert *ON* or *OFF*. Press **Enter** to confirm or **Mode** to cancel and return to the main menu.

3.8 *Invert Tilt Movement (RTLT)*

This function allows you to invert the Tilt movement. Use the **Up/Down**-keys to select invert *ON* or *OFF*. Press **Enter** to confirm or **Mode** to cancel.

3.9 *Special Functions (SPEC)*

This menu allows you to enter further special functions of the **YPOC 575.**

In detail they are:

3.9.1 *Manual Drive (MANU)*

This function allows you to drive all the fixture functions manually. Select the desired function with the **Up/Down**-keys and confirm with **Enter**. Now choose the desired value with the **Up/Down**-keys and confirm again with **Enter** or cancel and return to the menu with the **Mode**-key.

Function	Value	Remark
PAN	000 - 255	Pan Position
TILT	000 - 255	Tilt Position
COLO	000 - 255	Color wheel
GOB1	000 - 255	Gobo wheel 1
GROT	000 - 255	Gobo rotation
GOB2	000 - 255	Gobo wheel 2
PRIS	000 - 255	Prism rotation
SHUT	000 - 255	Shutter / Strobe function (the lamp strikes at DMX 255 if dimmer is "open" = DMX 255)
DIMR	000 - 255	Dimmer
FOCU	000 - 255	Focus
SPEC	000 - 255	Lamp Off, Reset, ...
LASR	000 - 255	Laser

3.9.2 *Lamp On automatically (LAAU)*

This function enables to switch On the lamp automatically after switching

On the fixture. Use the **Up/Down**-keys to select ON if you want to switch on the lamp automatically after switching on the fixture or OFF if you don't want this function. Press **Enter** to confirm or **Mode** to cancel and return to the menu.

If you have chosen OFF you have the possibility to start the lamp either via DMX or direct at the **YPOC 575** in the Lamp menu.

3.9.3 *Lamp Off via DMX [DLOF]*

This function enables to switch off the lamp via DMX or not. Use the **Up/Down**-keys to select ON if you want to switch off the lamp via DMX or OFF if you don't want this function. Press **Enter** to confirm or **Mode** to cancel and return to the menu.

If you have chosen OFF you have the possibility to switch off the lamp either direct at the **YPOC 575** in the Lamp menu or switch off the main switch.

3.9.4 *DMX Input [DMX I]*

Readout DMX values of each channel received by the fixture. Use the **Up/Down**-keys to select desired channel and press **Enter** to read its value.

Function	Value	Remark
PAN	000 - 255	Pan Position
TILT	000 - 255	Tilt Position
COLO	000 - 255	Color wheel
GOB1	000 - 255	Gobo wheel 1
GROT	000 - 255	Gobo rotation
GOB2	000 - 255	Gobo wheel 2
PRIS	000 - 255	Prism wheel
SHUT	000 - 255	Shutter / Strobe function
DIMR	000 - 255	Dimmer
FOCU	000 - 255	Focus
SPEC	000 - 255	Lamp Off, Reset, ...
MOVE	000 - 255	Movement
SPED	000 - 255	Speed Pan/Tilt
LASR	000 - 255	Laser

3.9.5 *Display [DISP]*

Use this function to choose between different display indications. Use the **Up/Down-**keys to select desired function and press **Enter** to confirm or **Mode** to cancel and return to the menu.

D ON	Display On/Off (If you've chosen OFF, the display will go out within 15 seconds after the last input. The next key touch will reactivate the display).
REV	Turn around the display

3.9.6 *Fixture Temperature [TEMP]*

This function allows you to read out the actual temperature of the **YPOC 575**. Press **Enter** to confirm or **Mode** to cancel. Inside temperatures below 80°C are not critical. 80°C and more lead the lamp being switched off at a critical point. Please note for a save operation that the outside temperature should not exceed 45°C.

3.9.7 *Fan Control [FANS]*

By using this function you can choose between 4 types of fan speed operations. Use the **Up/Down-**keys to select desired function and press **Enter** to confirm or **Mode** to cancel and return to the menu.

HIGH	The cooling fan works continuously at max. speed.
REG	The fan automatically raises its speed in order to control inside temperature of the fixture.
LOOF	The fan keeps the adjusted low speed until the temperature exceeds max. inside temperature, then the **YPOC 575** automatically **switch off** the lamp.
LOHI	The fan keeps the adjusted low speed until the temperature exceeds max. inside temperature, then the **YPOC 575** automatically switch from low to high fan speed.

In addition to these settings, you can set to fan speed to minimum via DMX (Special channel 13, value 224..229). This will last until a temperature of 90° is reached.

3.9.8 *Adjustments and Calibrations [ADJU]*

By this function you can adjust and calibrate the positions of the different wheels and other motors. This can be necessary after a service or repair work.

For this function you have to entry the fixture code. This work should be done only by authorized persons.

Use the **Up/Down**-keys to select desired function and press **Enter** to confirm or **Mode** to cancel and return to the menu. Use now the **Up/Down**-keys to set the adjustment values and confirm once more with the **Enter**-key or cancel with the **Mode**-key.

Function	Value	Remark
ADJU	CODE XXXX	Adjustments in the internal setup are code protected (for authorized persons only).
COLO	- 99 - + 99	Adjustment of the Color wheel
GOB1	- 99 - + 99	Adjustment of the Gobo wheel 1
GOB2	- 99 - + 99	Adjustment of the Gobo wheel 2
PRIS	- 99 - + 99	Adjustment of the Prism wheel
SHTR	- 99 - + 99	Adjustment of the Shutter
POFS	- 99 - + 99	Adjustment of the Pan-Offsets
TOFS	- 99 - + 99	Adjustment of the Tilt-Offsets
ARES	- 99 - + 99	Adjust Reset (wheels stand still after the reset)
CLRE	Adjustments in the internal circuit.	
FACC	- 99 - + 99	Must switched to ON (code protected)
VTIL	- 99 - + 99	Software version of Tilt-board
VTOP	- 99 - + 99	Software version of Head- board
VBOT	- 99 - + 99	Software version of Base- board
FASP	- 99 - + 99	Indication of the Fan-Speed

3.9.9 *Default Settings [DFSE]*

Press **Enter** to reset all fixture personalities (not the adjusted functions) to the default values. On the display will appear OK to indicate that the defaults are set.

Function	Display	Default Settings	
DMX Address	D001	D001	
Pan reverse	RPAN	ON	OFF ✓
Tilt reverse	RTLT	ON	OFF ✓

Automatic lamp on	LAAU	ON	OFF ✓
Lamp on via DMX	DLOF	ON ✓	OFF
Display	DISP	D ON ✓	
Cooling fan	FANS	HIGH REG ✓	LOOF LOHI
Feedback	FEED	ON ✓	OFF

3.9.10 Feedback [FEED]

The **YPOC 575** is provided with a automatic position correction (feedback) for the Pan and Tilt movement. Use the **Up/Down**-keys to select ON if you want to enable the feedback function or OFF if you don't want this function. Press **Enter** to confirm or **Mode** to cancel and return to the menu.

3.9.11 Correction of faults [EFLG]

(Function available for authorized persons only)

3.10 Error and Information Messages

HEAT	This message appears if you try to switch on the lamp within 5 minutes after having switched off (lamp too hot). The message will appear on the display if the lamp doesn't ignite within 20 seconds. The fixture will store this command and automatically ignite the lamp after 5 minutes.
LAER	After the ignition of the lamp was two times not successful the display will show LAER. That means the lamp could be damaged or even missed, the fixture is overheating or there could be a failure on the igniter or ballast. Switch off the power supply and solve the possible problem.
OTMP	This error message informs you that the fixture was overheating and that the relay switches off the lamp. Pleas look for possible reasons (fan faulty, air in/outlets blocked or very dirty, lamp broken or very old, too high ambient temperature. Switch off the power supply and solve the possible problem.
RSER	This message informs you that one of the fixture function wasn't able to do its reset correct (magnetic sensor, stepping motor, driver on the PCB, cables, etc.). Repair the defect and start the fixture again.

4 DMX Channel Selection (DMX Protocol)

Channel	Function	Time and Value	DMX	HEX	%
1) PAN-coarse	0 .. 530°	min. 2,65 s	0..255	00..FF	0..100
2) PAN-fine	High- Pos ... High- Pos + 2,1° (16 Bit)		0..255	00..FF	0..100
3) Tilt-coarse	0 .. 285°	min. 1,8 s	0..255	00..FF	0..100
4) Tilt-fine	High- Pos … High- Pos + 1,1° (16 Bit)		0..255	00..FF	0..100
5) Color	open (fast)	Chaser from color to color max. 140 BPM => 0,43 s	0..1	00..01	0,2
	open / color 1 (fast)		2..3	02..03	1,0
	color 1, Brilliant Blue (fast)		4..5	04..05	1,8
	color 1 / color 2 (fast)		6..7	06..07	2,5
	color 2, Blue (fast)		8..9	08..09	3,3
	color 2 / color 3 (fast)		10..11	0A..0B	4,1
	color 3, Blue Purple (fast)		12..13	0C..0D	4,9
	color 3 / color 4 (fast)		14..15	0E..0F	5,7
	color 4, Magenta (fast)		16..17	10..11	6,5
	color 4 / color 5 (fast)		18..19	12..13	7,3
	color 5, Pink (fast)		20..21	14..15	8,0
	color 5 / color 6 (fast)		22..23	16..17	8,8
	color 6, Orange (fast)		24..25	18..19	9,6
	color 6 / color 7 (fast)		26..27	1A..1B	10,4
	color 7, Canary (fast)		28..29	1C..1D	11,2
	color 7 / color 8 (fast)		30..31	1E..1F	12,0
	color 8, Italian Blue (fast)		32..33	20..21	12,7
	color 8 / color 9 (fast)		34..35	22..23	13,5
	color 9, Turquoise (fast)		36..37	24..25	14,3
	color 9 / color 10 (fast)		38..39	26..27	15,1
	color 10, Jade (fast)		40..41	28..29	15,9
	color 10 / color 11 (fast)		42..43	2A..2B	16,7
	color 11, Red (fast)		44..45	2C..2D	17,5
	color 11 / open (fast)		46..47	2E..2F	18,2
	open (fast)		48..63	30..3F	19,0
	open (slow)	Chaser from color to color max. 70 BPM => 0,86 s	64..65	40..41	25,3
	open / color 1 (slow)		66..67	42..43	26,1
	color 1, Brilliant Blue (slow)		68..69	44..45	26,9
	color 1 / color 2 (slow)		70..71	46..47	27,6
	color 2, Blue (slow)		72..73	48..49	28,4
	color 2 / color 3 (slow)		74..75	4A..4B	29,2
	color 3, Blue Purple (slow)		76..77	4C..4D	30,0
	color 3 / color 4 (slow)		78..79	4E..4F	30,8
	color 4, Magenta (slow)		80..81	50..51	31,6
	color 4 / color 5 (slow)		82..83	52..53	32,4
	color 5, Pink (slow)		84..85	54..55	33,1
	color 5 / color 6 (slow)		86..87	56..57	33,9
	color 6, Orange (slow)		88..89	58..59	34,7
	color 6 / color 7 (slow)		90..91	5A..5B	35,5
	color 7, Canary (slow)		92..93	5C..5D	36,3
	color 7 / color 8 (slow)		94..95	5E..5F	37,1
	color 8, Italian Blue (slow)		96..97	60..61	37,8
	color 8 / color 9 (slow)		98..99	62..63	38,6
	color 9, Turquoise (slow)		100..101	64..65	39,4
	color 9 / color 10 (slow)		102..103	66..67	40,2
	color 10, Jade (slow)		104..105	68..69	41,0

Channel	Function	Time and Value	DMX	HEX	%
	color 10 / color 11 (slow)		106..107	6A..6B	41,8
	color 11, Red (slow)		108..109	6C..6D	42,5
	color 11 / open (slow)		110..111	6E..6F	43,3
	open (slow)		112.127	70..7F	44,1
	color rotation STOP		128..129	80..81	50
	color rotation, slow-fast, CW	min. 1,4 turns/h	130..191	82..BF	51..75
	color rotation, fast-slow, CCW	max. 2,9 turns/sec.	192..253	C0..FD	76..98
	Audio color chaser slow	each 4th sound impulse → new color	254	FE	99
	Audio color chaser fast	each sound impulse → new color	255	FF	100
6) Gobo 1	Gobo 1 (open, fast)	Chaser from gobo to gobo max. 100 BPM => 0,6 s	0..7	0..7	0..2,9
	Gobo 2 (fast)		8..15	8..F	3..5,9
	Gobo 3 (fast)		16..23	10..17	6..8,9
	Gobo 4 (fast)		24..31	18..1F	9..11,9
	Gobo 5 (fast)		32..39	20..27	12..14,9
	Gobo 6 (fast)		40..47	28..2F	15..17,9
	Gobo 7 (fast)		48..55	30..37	18..20,9
	Gobo 8 (fast)		56..63	38..3F	21..23
	Gobo 1 (open, slow)	Chaser from gobo to gobo max. 40 BPM => 1,51 s	64..71	40..47	24..26,9
	Gobo 2 (slow)		72..79	48..4F	27..29,9
	Gobo 3 (slow)		80..87	50..57	30..33,9
	Gobo 4 (slow)		88..95	58..5F	34..36,9
	Gobo 5 (slow)		96..103	60..67	37..39,9
	Gobo 6 (slow)		104..111	68..6F	40..42,9
	Gobo 7 (slow)		112..119	70..77	43..45,9
	Gobo 8 (slow)		120..127	78..7F	46..49
	Gobo rotation STOP		128..129	80..81	50
	Gobo rotation, slow-fast, CW	min. 1,4 turns/h	130..191	82..BF	51..75
	Gobo rotation, fast-slow, CCW	max. 1.0 turns/sec.	192..253	C0..FD	76..98
	Audio gobo chase, slow	each 4th sound impulse → new gobo	254	FE	99
	Audio gobo chase, fast	each sound impulse → new gobo	255	FF	100
7) Gobo Posi./Rot	Gobo position 0 ... 540°		0..127	00..7F	0..49
	Gobo rotation STOP		128..129	80..81	50
	Gobo rotation, slow-fast, CW	min. 2,0 turns/h	130..191	82..BF	51..75
	Gobo rotation, fast-slow, CCW	max. 3,8 turns/sec.	192..253	C0..FD	76..100
	Audio gobo rotation, slow	each 4th sound impulse → new position	254	FE	99
8) Gobo 2	Gobo 1 (open, fast)	Chaser from gobo to gobo max. 100 BPM => 0,6 s	0..3	0..3	0..1
	Gobo 2 (fast)		4..7	4..7	2..2,9
	Gobo 3 (fast)		8..11	8..B	3..4
	Gobo 4 (fast)		12..15	C..F	5..5,9
	Gobo 5 (fast)		16..19	10..13	6..7
	Gobo 6 (fast)		20..23	14..17	8..8,9
	Gobo 7 (fast)		24..27	18..1B	9..10,9
	Gobo 8 (fast)		28..31	1C..1F	11..12
	Gobo 9 (fast)		32..35	20..23	13..13,9
	Gobo 10 (fast)		36..63	24..3F	14..24,9
	Gobo 1 (open, fast)		64..65	40..41	25..25,9
	Gobo 1 (open, slow)	Chaser from gobo to gobo max. 40 BPM	66..67	42..43	26..26,9
	Gobo 2 (slow)		68..71	44..47	27..27,9

Channel	Function	Time and Value	DMX	HEX	%
	Gobo 3 (slow)	=> 1,51 s	72..75	48..4B	28..29
	Gobo 4 (slow)		76..79	4C..4F	30..30,9
	Gobo 5 (slow)		80..83	50..53	31..32
	Gobo 6 (slow)		84..87	54..57	33..34
	Gobo 7 (slow)		88..91	58..5B	35..35,9
	Gobo 8 (slow)		92..95	5C..5F	36..37
	Gobo 9 (slow)		96..99	60..63	38..38,9
	Gobo 10 (slow)		100..127	64..7F	39..50
	Gobo rotation STOP		128..129	80..81	50
	Gobo rotation, slow-fast, CW	min. 1,4 turns/h	130..191	82..BF	51..75
	Gobo rotation, fast-slow, CCW	max. 1.0 turns/sec.	192..253	C0..FD	76..98
	Audio gobo chase, slow	each 4th sound impulse → new gobo	254	FE	99
	Audio gobo chase, fast	each sound impulse → new gobo	255	FF	100
	Audio gobo rotation, fast	each sound impulse → new position	255	FF	100
9) Shutter	Shutter closed		0..15	00..0F	0..6
	Random Strobe (different pattern)		16..31	10..1F	7..11,9
	Strobe Pulse effect , slow - fast	min. frequent 0,7 Hz	32..47	20..2F	12..12,9
	Strobe effect , slow - fast	max. frequent 10 Hz	48..239	30..EF	13..93
	Shutter open (lamp start)		240..255	F0..FF	94..100
10) Dimmer	Dimmer closed (0%)		0..3	0..3	0..1
	Dimmer 1%...99%	movement time 0,3 sec.	4..251	4..FB	2..98
	Dimmer open (100%)		252..255	FC..FF	99..100
11) Focus	in - out	full distance 1,5 sec.	0..255	0..FF	0..100
12) Prism	Prism swing out		0..5	00..02	0..2
	Prism position 0 ... 540°		6..129	00..7F	0..50
	Prism rotation, slow-fast, CW	min. 1,6 turns/h	130..191	80..BF	51..75
	Prism rotation, fast-slow, CCW	max. 4,4 turns/sec.	192..253	C0..FD	76..100
	Audio prism rotation, slow	each 4th sound impulse → new prism	254	FE	99
	Audio prism rotation, fast	each sound impulse → new prism	255	FF	100
13) Special	no function		0..15	00..0F	0..6
	Gobo-shake +/- 10° slow – fast	3,5 moves / min. up to 60 moves / max.	16..31	10..1F	7..12
	Gobo-shake +/- 20° slow – fast	3,5 moves / min. up to 60 moves / max.	32..47	20..2F	13..18
	Gobo-shake +/- 30° slow – fast	3,5 moves / min. up to 60 moves / max.	48..63	30..3F	19..24
	Color-chaser C / C+1 slow – fast	0,7 BPS ... 2,3 BPS => 1,43 s ... 0,43 s	64..79	40..4F	25..31
	Color-chaser C / C+2 slow – fast	0,7 BPS ... 2,0 BPS => 1,43 s ... 0,5 s	80..95	50..5F	32..37
	Audio Pan / Tilt slow	each 4th sound impulse → new position	96..111	60..6F	38..43
	Audio Pan / Tilt fast	each sound impulse → new position	112..127	70..7F	44..50
	no function		128..249	80..E5	50..97
	fan on min. as long as temp. < 90°C		224..229	E0..E5	88..90
	Lamp OFF (min. 3 sec.)		230..249	E6..F9	92..97
	Reset		250..255	FA..FF	98..100

Channel	Function			Time and Value	DMX	HEX	%
14) Move-ment	no movement				0	00	0
	Movement	**Size**	**Phase**				
	PAN	1	0°		01..01	01..01	0,5
		1	90°		02..03	02..03	1,0
		1	180°		04..05	04..05	1,7
		1	270°		06..07	06..07	2,5
	PAN	2	0°		08..09	08..09	3,3
		2	90°		10..11	0A..0B	4,1
		2	180°		12..13	0C..0D	4,9
		2	270°		14..15	0E..0F	5,7
	PAN	3	0°		16..17	11..11	6,5
		3	90°		18..19	12..13	7,3
		3	180°		20..21	14..15	8,0
		3	270°		22..23	16..17	8,8
	PAN	4	0°		24..25	18..19	9,6
		4	90°		26..27	1A..1B	10,4
		4	180°		28..29	1C..1D	11,2
		4	270°		30..31	1E..1F	12
	TILT		size / phase see also PAN		32..63	20..3F	13..25
	PAN / TILT		size / phase see also PAN		64..95	40..5F	26..37
	PAN / TILT (inverse)		size / phase see also PAN		96..127	60..7F	38..50
	Circle		size / phase see also PAN		128..159	80..9F	51..62
	Circle (inverse)		size / phase see also PAN		160..191	A0..BF	63..75
	lying eight		size / phase see also PAN		192..223	C0..DF	76..87
	random movement		size see also PAN		224..255	E0..FF	88..100
15) Speed Pan/Tilt	Pan/Tilt relative movement				0..15	00..0F	0..6
	Pan/Tilt slow – fast Use this channel 14) also for the speed of the movements (channel 13).			Pan min. 530° = 200 s Pan max. 530° = 2,65 s Tilt min. 285° = 110 s Tilt max. 285° = 1,8 s	16..255	10..FF	7..100
16) Laser	Laser OFF				0..15	00..0F	0..6
	Laser flashing random				16..31	10..1F	7..12
	Audio Laser				32..47	20..2F	13..18
	Blinking slow - fast				48..127	30..7F	19..50
	Flashing slow - fast				128..239	80..EF	51..93
	Laser ON				240..255	FO..FF	94..100

Lamp ON	Shutter open		240..255	F0..FF	94..100
Lamp OFF	Channel 13 (min. 3 sec.) (only if shutter is closed, channel 10 = 0 ..15)		230..249	6E..9F	92..97

5 Change the Lamp

For a frictionless operation pleas read this chapter carefully and follow all instructions.

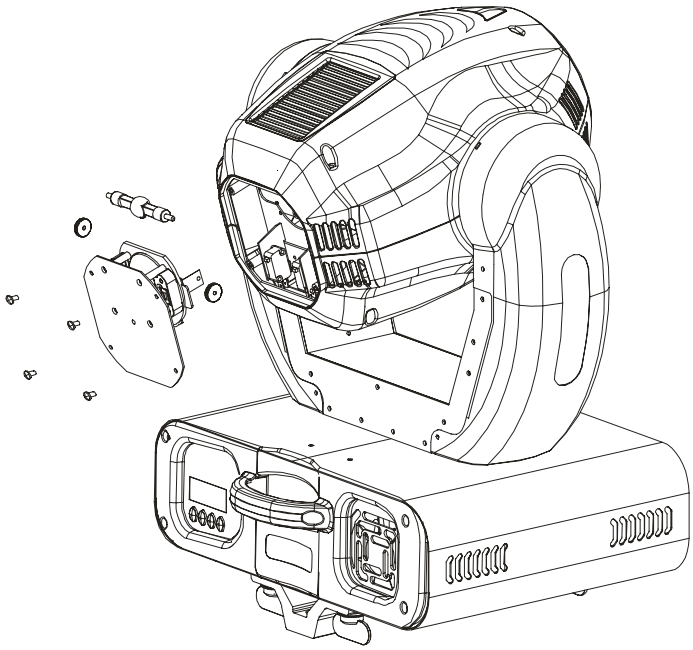
5.1 Safety Regulations

- **Pull out the main plug!**

- Wait min. 20 minutes after the last operation to cool down the fixture.
- Don't touch the bulb of the lamp with bare fingers (this can cause damages).
- Before you put the **YPOC 575** into operation close the casing, otherwise your retina can be hurt!

5.2 Realize the Lamp Change

1. **Pull out the main plug!**
2. The lamp can be changed in a very comfortable way directly from the backside of the case without opening the head.
3. Open the four screws (1,2,3 and 4) of the backside lamp sheet and remove it carefully.
4. Remove the old or broken lamp by opening the two sidewise lamp screws. **Attention:** The glass bulb of the lamp can splinter. For that reason remove the lamp with safety gloves or some cloth.
5. Put in the new lamp securely with a tight fit into the socket and close the two lamp screws. The lamp filler neck must not in the direction lamp or lenses. **Attention:** Use only the original lamp type!
6. Pull the lamp holder safely back in the shaft and close the four screws.
7. The running time of the lamp LAMP can be reseed in the TIME Menu.



6 Change a Gobo

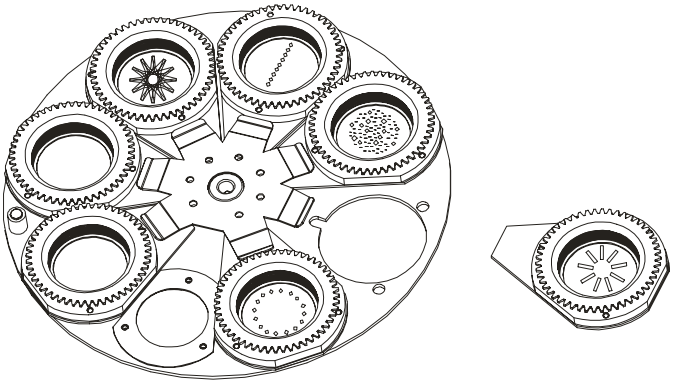
The **YPOC 575** is fitted with standard gobos (outside diameter 27 mm, image size 23 mm). You can use ether steel or glass gobos.

6.1 Safety Regulations

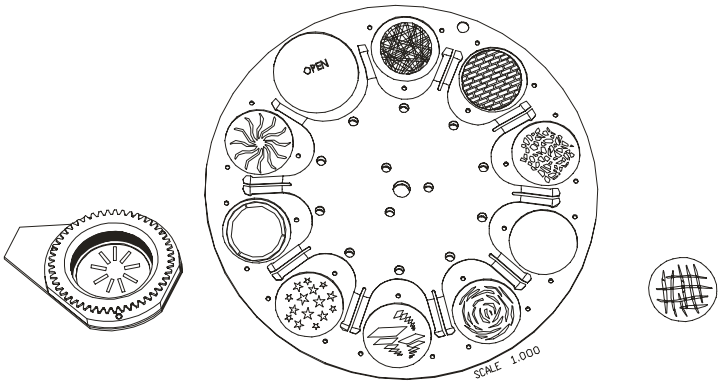
- **Pull out the main plug!**
- Wait min. 20 minutes after the last operation to cool down the fixture.
- Before you put the **YPOC 575** into operation close the casing, otherwise your retina can be hurt!

6.2 Realize the Gobo Change

1. **Pull out the main plug!**
2. Open the upper shell of the head casing by loosening the 4 Phillips screws. Two on the front side and 2 on the back side of the head.
3. Rotating Gobo-wheel: Remove the gobo out of the centric spring. Afterwards the gobo can be changed outside.
4. Fixed Gobo-wheel: Remove the gobo directly out of the Gobo-spring.
5. Change the desired gobo and fix it again under the spring.
6. Close the **YPOC 575** in reverse order.



Wheel with rotating Gobos



Wheel with non rotating Gobos

Attention:

If you use glass gobos, the non-vaporized side must be fitted towards the lamp direction.

7 Maintenance and Cleaning the YPOC 575

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not built up on or within the fixture. Otherwise the fixture's light-output will be significantly reduced. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to function reliable throughout its life.

A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

The inside optical system should be maintained only by authorized persons. Please contact your local dealer.

7.1 Safety Regulations

- **Pull out the main plug!**
- Wait min. 20 minutes after the last operation to cool down the fixture.
- Before you put the **YPOC 575** into operation close the casing, otherwise your retina can be hurt!

7.2 Circumference and Interval (rule-of-thumb)

The contamination of the fixture depends on the environment details. Therefore no general guidelines can be given. From this it follows that the intervals are only suggestions from our practice experience.

Position	Interval	In this way
Outside optic	weekly	soft cloth and glass cleaning fluid
Color filter	monthly	soft cloth and glass cleaning fluid
Gobos	yearly	vacuum cleaner, airbrush, etc.
Glass gobos	monthly	soft cloth and glass cleaning fluid
Prism	monthly	soft cloth and glass cleaning fluid
Dimmer/Shutter	yearly	vacuum cleaner, airbrush, etc.
Inside lens	monthly	soft cloth **no** glass cleaning fluid
Fan and air channel	monthly	vacuum cleaner, airbrush, etc.
Reflector	**never**	
Lamp	**never**	
Moveable parts	yearly	suitable fatty oil

Attention:

1. **Never let optical parts come into contact with oil or fat.**
2. **Before running the fixture wait until all parts are dried up.**
3. **Never clean the aspheric lens with water or other cleaners. Change the lens if it looks milky (about 1-2 years). For that please contact your local dealer.**

7.3 Cleaning the Optical System

1. **Pull out the main plug!**
2. Wait min. 20 minutes after the last operation to cool down the fixture.
3. Open the upper shell of the head casing by loosening the 4 Phillips screws. Two on the front side and 2 on the back side of the head.
4. Do the work as explained in the list above.
5. Before you put the **YPOC 575** into operation close the casing, otherwise your retina can be hurt!

8 Technical Specification

Power supply	
Power consumption	700 Watt (blind current compensated)
EU-model	AC 230V / 50 Hz~
Fuse protection	T 5A, 250V, 5x20 mm (fine-wire fuse)
US-model	AC 115V / 60 Hz~
Fuse protection	T 10A, 115V, 5x20 mm (fine-wire fuse)
Lamp	
Type 1	HTI 575-DE (OSRAM)
Optical system	
Parabolic reflector	
Doubles condenser lens	
15° standard objective (optional 12° or 18°)	
Lens anti-reflex	
Color	
11 dichroic filter plus white, 12 half-colors	
Gobos	
Gobowheel 1: 7 exchangeable rotating gobos plus "open", 4 glass Gobos	
Gobowheel 2: 9 fixed exchangeable standard gobos plus "open"	
Gobo outside diameter 27 mm, image size 23 mm	
All gobos as steel or glass Gobos exchangeable, 9 spare Gobos	
Shutter / Strobe / Dimmer	
Strobe- effect with variable speed 1 - 10 flashes per second	
Continuously mechanical dimmer 0 - 100%	
Prism	
Rotating 3-face prism, rotating and variable in speed	
Focus	
Motor driven focus from near to far away	
Drive	
Standard DMX-512, 3 pole XLR; [+] = Pin 3 [-] = Pin 2 [Ground] = Pin 1. The DMX- addressing starts at the DMX- address [001].	
Pan / Tilt	
Pan- movement	**530° in max. 2,65 seconds, 16 bit resolution**
Tilt- movement	**280° in max. 1,68 seconds, 16 bit resolution**
Weights and measures	
Width of the base	**380 mm**
Length of the base	**315 mm (390 mm incl. handle)**
height (head vertical)	**510 mm**
Weight (net)	**24,4 kg**
Weight (gross)	**26,8 kg**

9 Index