YPOC COLOR 575

Instruction Manual

from software version 1.0
(instruction version 1.0)

GLP

GERMAN LIGHT
PRODUCTS

e-mail: service@glp.de
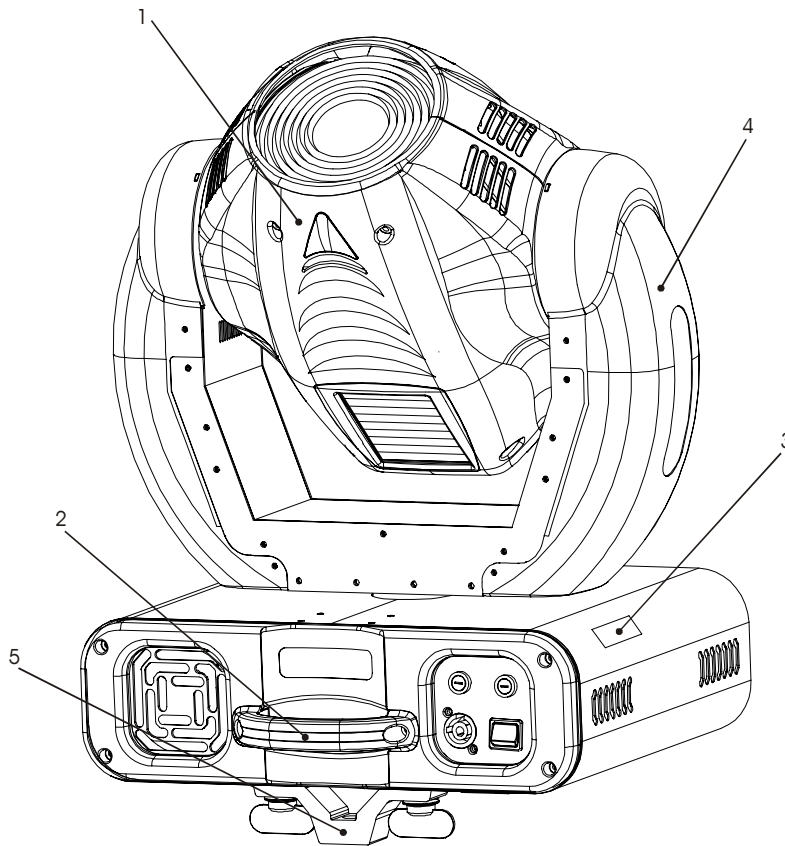Internet: http://www.GLP.de

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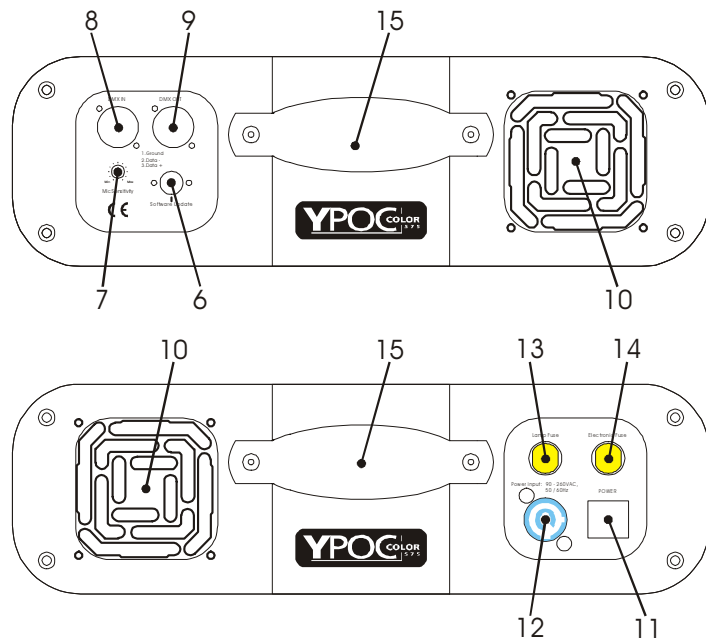
1.1 Safety Instructions

The **YPOC 575 COLOR** 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 cancelled.

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 COLOR 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 COLOR**. 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 COLOR** 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.

2 Preparation and Installation

2.1 Mounting

The **YPOC 575 COLOR** 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.
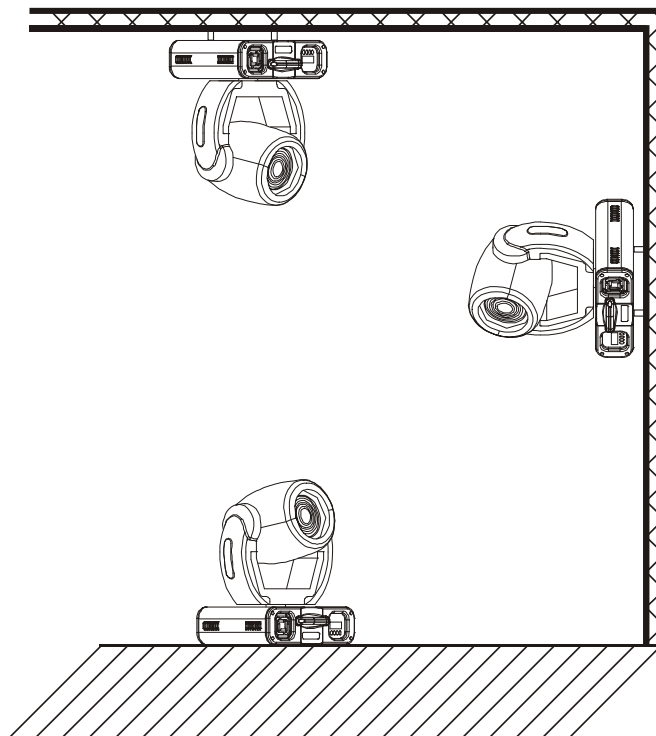
⚠	**Pay attention to the regulations of: BGV C1 (former VBG 70) and DIN VDE 0711-217 ! The installation should be done by qualified staff only.**

2.1.1 Clamps

There are two major possibilities to mount the **YPOC 575 COLOR** 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.
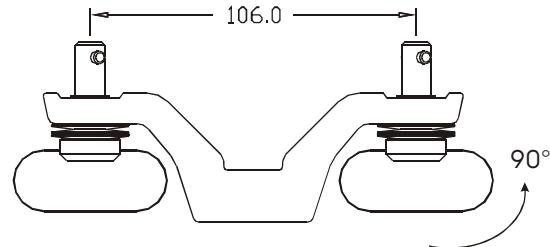
b) Use two clamps direct on the backside of the **YPOC 575 COLOR** to mount the unit on a truss (each two opposite threads max. M10x20).
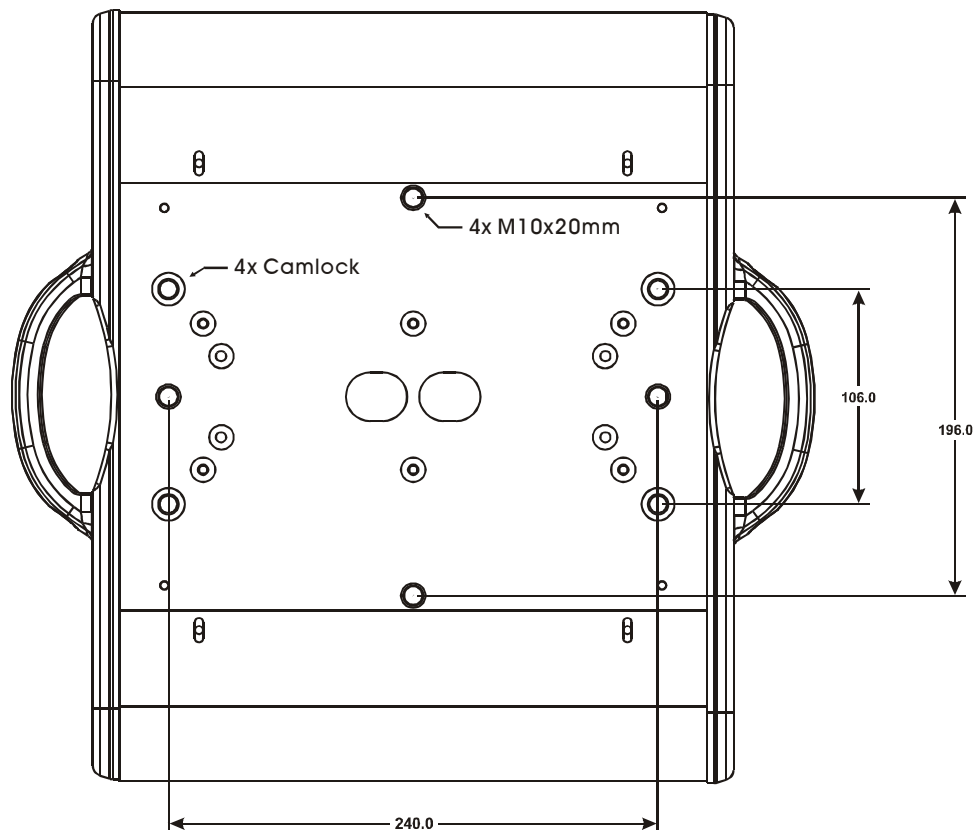
2.2 *Secure the YPOC 575 COLOR*

Regardless of the rigging of the **YPOC 575 COLOR** 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 Mains supply

Electronic ballast with:

~90 - 260 Volt, 50 - 60 Hz, earth contact type plug - Powercon

Connected load 780W <=> 3.8 A (blind current compensation).

Please see printing on the case for the right electronic 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 Fuses

The **YPOC 575 COLOR** electronic system is protected by two 5x20 mm fine-wire fuses.

Lamp: 230V / T 5A

Electronic: 230V / T 1A

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

Attention:

- **Disconnect AC outlet before changing a fuse!**

- **Use only the original declared fuse type!**

3   The Menu Field

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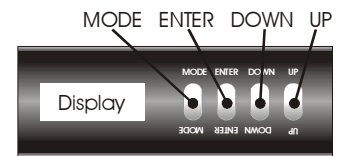Down-**keys. Push the **Enter-**key to get in the next menu level or to confirm your settings. Make them and set functions **ON/OFF** with the **Up/Down-**keys. Confirm and save it with the **Enter-**key (the display shows *OK*). Push the **Mode-**key to cancel the entry and go back to the main menu.

MODE   ENTER   DOWN   UP

Display

← DOWN - UP →

Level 1	Level 2	Level 3	Remark
DOO1			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 COLOR**
RESE			Reset
TIME	*POWR*		Running time of the fixture (no destructible)
	LA1		Running time of the lamp (erasable)
	LA2		Running time of the lamp (no destructible)
FCOL			Reverse Pan-direction
RPAN			Reverse Tilt-direction
RTLT			Manual drive of all device functions
SPEC	*MANU*		Automatic lamp start
	LAAU		Switch off lamp via DMX
	DLOF		Reed out actual DMX-values
	DMX1		Display On/Off
	DISP	*D ON*	Twist the display
		REV	Reed out internal temperature
	TEMP		Maximum cooling fan velocity
	FANS	*HIGH*	Automatic cooling fan control
		REG	Low cooling fan speed → lamp off
		LOOF	Low cooling fan speed → automatic
		LOHI	Define the DMX start address
	ADJU	*CODE XXXX*	Use the code for entering the calibration menu (for authorized persons only)
		CYAN	Calibration of the Cyan color wheel
		MAGE	Calibration of the Magenta color wheel
		YELL	Calibration of the Yellow color wheel
		COLO	Calibration of the color wheel
		BSPR	Calibration of the beam shape
		ZOOM	Calibration of the Zoom
		DIMM	Calibration of the Dimmer
		SHUT	Calibration of the Shutter
		CLRE	Settings in the internal memory (super-user only)
		ARES	Adjust Reset
		VTIL	Software version Tilt-board
		VTRB1	Software version driver board 1
		VTRB2	Software version driver board 2

CORD	CODE XXXX	Use the code for entering the calibration menu (for authorized persons only)
	CYAN	Coarse calibration of the Cyan color wheel
	MAGE	Coarse calibration of the Magenta color wheel
	YELL	Coarse calibration of the Yellow color wheel
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 [D00 1]

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

D00 1

For the address setting please follow this procedure:

1. Switch On the **YPOC 575 COLOR** 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 **D00 1**. 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 COLOR!**

3.2 The Test Program [TEST]

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]

AUDI

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

Every second sound impulse 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 $S\Psi PT$ 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]

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 chapter 3.10.1.

3.5 Reset [RESE]

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]

TIME

You 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 Continuous Color Wheel [FCOL]

```
FCOL
```

This function allows you to control the color wheel continuously. If it is switched off, the color wheel is stepping directly from one to another color.

3.8 Invert Pan Movement [RPAN]

```
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.

3.9 Invert Tilt Movement [RTLT]

```
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.

3.10 Special Functions [SPEC]

```
SPEC
```

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

In detail they are:

3.10.1 Manual Drive [MANU]

```
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
CYAN	000 – 255	Cyan color wheel

MAGE	000 - 255	Magenta color wheel
YELL	000 - 255	Yellow color wheel
COLO	000 - 255	Color wheel (fixed colors)
SHUT	000 - 255	Shutter / Strobe function (the lamp strikes at DMX 255 if dimmer is "open" = DMX 255)
DIMR	000 - 255	Dimmer
BSPR	000 - 255	Beam shape + Frost
ZOOM	000 - 255	Zoom
SPEC	000 - 255	Lamp Off, Reset, ...

3.10.2 Lamp On automatically [LAAU]

LAAU

This function enables to switch ON the lamp automatically after switching on the fixture itself. 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 COLOR** in the Lamp menu.

3.10.3 Lamp Off via DMX [DLOF]

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 COLOR** in the Lamp menu or switch off the main switch.

3.10.4 DMX Input [DMXI]

DMXI

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	0 - 255	Pan Position
TILT	0 - 255	Tilt Position
CYAN	0 - 255	Cyan color wheel
MAGE	0 - 255	Magenta color wheel
YELL	0 - 255	Yellow color wheel
COLO	0 - 255	Color wheel (fixed colors)
SHUT	0 - 255	Shutter / Strobe function
DIMR	0 - 255	Dimmer
BSPR	0 - 255	Beam shape + Frost
ZOOM	0 - 255	Zoom
SPEC	0 - 255	Lamp Off, Reset, ...
MOVE	0 - 255	Movement
SPED	0 - 255	Speed for Pan/Tilt

3.10.5 Display [DISP]

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. **Note:** You can also do this by pushing the **Up/Down-**keys at the same time.

3.10.6 Fixture Temperature [TEMP]

TEMP

This function allows you to read out the actual temperature of the **YPOC 575 COLOR**. 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.

3.10.7 Fan Control [FANS]

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 COLOR** automatically **switch off** the lamp.
LOHI	The fan keeps the adjusted low speed until the temperature exceeds max. inside temperature, then the **YPOC 575 COLOR** 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, DMX value 224..229). This will last until a temperature of 90° is reached.

3.10.8 Adjustments and Calibrations [*ADJU*]

ADJU

With 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).
CYAN	*- 99 - + 99*	Adjustment of the Cyan color wheel
MAGE	*- 99 - + 99*	Adjustment of the Magenta color wheel
YELL	*- 99 - + 99*	Adjustment of the Yellow color wheel
COLO	*- 99 - + 99*	Adjustment of the Color wheel
BSPR	*- 99 - + 99*	Adjustment of the Beam shape
ZOOM	*- 99 - + 99*	Adjustment of the Zoom
DIMM	*- 99 - + 99*	Adjustment of the Dimmer

SHUT	*- 99 - + 99*	Adjustment of the Shutter
CLRE	Adjustments in the internal circuit.	
ARES	*- 99 - + 99*	Adjust Reset (wheels stand still after the reset)
VTIL	*- 99 - + 99*	Software version of Tilt-board
VTR1	*- 99 - + 99*	Software version of Head- board
VTR2	*- 99 - + 99*	Software version of Base- board
COAD	*CODE XXXX*	Adjustments in the internal setup are code protected (for authorized persons only).
CYAN	*- 99 - + 99*	Coarse adjustment of the Cyan color wheel
MAGE	*- 99 - + 99*	Coarse adjustment of the Magenta color wheel
YELL	*- 99 - + 99*	Coarse adjustment of the Yellow color wheel

3.10.9 Default Settings (*DFSE*)

DFSE

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

Function	Display	Default Settings			
DMX Address	*DOO1*	*DOO1*			
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*		

3.10.10 Position Feedback (*FEED*)

FEED

The **YPOC 575 COLOR** is equipped with an 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.

3.10.11 Correction of faults [EFLG]

EFLG

(Function available for authorized persons only)

3.11 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.
IG E	When igniting the lamp, the electronic ballast will examine whether the lamp ignited or not. If the lamp does not ignite within 20 seconds, the igniting sequence is broken off. Now approx. 2 minutes are waited, until a renewed ignition attempt is started automatically. After the 3rd unsuccessful ignition attempt the sequence is completely stopped and the display reads "IG E" (Ignition error).
LAER	As soon as the lamp ignited correctly, the lamp current is constantly supervised by the system. If an interruption steps on (covers opened or lamp damaged), the power is switched off immediately. The display reads "LAER" (lamps error). Please switch off the power supply and solve the possible problem.

After an error like "IG E" respectively "LAER" it is not anymore possible the start the lamp via Shutter = 255. Nevertheless if a renewed ignition attempt is desired, first run a Reset (at the Spot or over DMX). Afterwards you can try again to ignite the lamp.

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	Low- 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	Low- 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..3	00..03	0,2
	color 1, Brilliant Blue (fast)		4..7	04..07	1,8
	color 2, Blue (fast)		8..11	08..0B	3,3
	color 3, Blue Purple (fast)		12..15	0C..0F	4,9
	color 4, Pink (fast)		16..19	10..13	6,5
	color 5, Orange (fast)		20..23	14..17	8,0
	color 6, Italian Blue (fast)		24..27	18..1B	9,6
	color 7, Turquoise (fast)		28..31	1C..1F	11,2
	color 8, Jade (fast)		32..35	20..23	12,7
	color 9, CTB 001 (fast)		36..39	24..27	14,3
	color 10, CTO 02 (fast)		40..43	28..2B	15,9
	color 11, Red (fast)		44..47	2C..2F	17,5
	open (fast)		48..63	30..3F	19,0
	open (slow)	Chaser from color to color max. 70 BPM → 0,86 s	64..67	40..43	25,3
	color 1, Brilliant Blue (slow)		68..71	44..47	26,9
	color 2, Blue (slow)		72..75	48..4B	28,4
	color 3, Blue Purple (slow)		76..79	4C..4F	30,0
	color 4, Pink (slow)		80..83	50..53	31,6
	color 5, Orange (slow)		84..87	54..57	33,1
	color 6, Italian Blue (slow)		88..91	58..5B	34,7
	color 7, Turquoise (slow)		92..95	5C..5F	36,3
	color 8, Jade (slow)		96..99	60..63	37,8
	color 9, CTB 001 (slow)		100..103	64..67	39,4
	color 10, CTO 02 (slow)		104..107	68..6B	41,0
	color 11, Red (slow)		108..111	6C..6F	42,5
	open (slow)		112.127	70..7F	44,1
	color rotation, slow-fast, CW	min. 1.4 turns/h	128..191	80..BF	50..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) Cyan	Cyan color intensity 0% - 100%		0..255	00..FF	0..100
7) Magenta	Magenta color intensity 0% - 100%		0..255	00..FF	0..100
8) Yellow	Yellow color intensity 0% - 100%		0..255	00..FF	0..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. frequency 0,7 Hz	32..47	20..2F	12..12,9
	Strobe effect , slow - fast	max. frequency 10 Hz	48..239	30..EF	13..93
	Shutter open		240..255	F0..FF	94..100
	Lamp ON (ignition)		254..255	FE..FF	99..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

Channel	Function			Time and Value	DMX	HEX	%
11) Beam shape	Open				0..15	0..0F	0..5
	Shaper				16..239	10..EF	6..94
	Frost				240..255	F0..FF	95..100
12) Zoom	Zoom 0% - 100%			8° - 22°	0..255	00..FF	0..100
13) Special	No function				0..15	00..0F	0..6
	Audio CMY chaser slow				16..23	10..17	7..9
	Audio CMY chaser fast				24..31	18..1F	10..12
	Rotating color chaser				32..63	20..3F	13..24
	Color chaser C / C+1 slow – fast				64..79	40..4F	25..31
	Color chaser C / C+2 slow – fast				80..95	50..5F	32..37
	PAN/Tilt chaser slow				96..111	60..6F	38..43
	PAN/Tilt chaser fast				112..127	70..7F	44..50
	Lamp OFF (only if shutter is closed)!				230..249	E6..F9	92..97
	Reset				250..255	FA..FF	98..100
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..01	00..01	0..1
	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	02..255	02..FF	2..100

Lampe ON	Shutter open			254..255	FE..FF	99..100
Lampe OFF	Channel 9 (min. 3 sec.) (only if shutter is closed, channel 9 = 0 ..15)			230..249	E6..F9	92..97

*) Set the function "FCOL" 'ON' if you want to control the color wheel continuously.

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 COLOR** 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 recessed head 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 $LA1$ can be cleared in the $TIME$ Menu.

6   Maintenance and Cleaning the YPOC 575 COLOR

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 recom-

mended, 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.

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 COLOR** into operation close the casing, otherwise your retina can be hurt!

6.2 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
Beam shape	monthly	soft cloth and glass cleaning fluid
Dimmer/Shutter	yearly	vacuum cleaner, airbrush, etc.
Fan and air channel	monthly	vacuum cleaner, airbrush, etc.
Reflector	**never**	
Lamp	**never**	
Moveable parts	yearly	suitable fatty oil

<u>**Attention**</u>:

- <u>**Never**</u> **let optical parts come into contact with oil or grease.**
- **Before running the fixture wait until all parts are dried up.**

6.3 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 two on the back side of the head.
4. Do the work as explained in the list above.
5. Before you put the **YPOC 575 COLOR** into operation close the casing, otherwise your retina can be hurt!

7 Technical Specification

Mains supply	
Power consumption	~90 - 260V, 50 - 60 Hz 780 Watt, 3.8A, electronic ballast, (blind current compensated)
Fuse protection	Lamp: T 5A, 250V, 5x20 mm (fine-wire fuse) Electronic: T 1A, 250V, 5x20 mm (fine-wire fuse)
Lamp	
Type	HTI 575-DE (OSRAM)
Live time	500h (750h)
Color temperature	5600k or 7500k
luminous flux	43.000 lm
Optical system	
Glass reflector	
Fresnell lens 150mm	
Color	
9 dichroic filter plus white plus 1x CTC 5600k, 1x CTC 3300k	
Beam shape	
Step less Beam shape	
Frost filter	
Motor driven focus from near to far away	
Zoom: Motor driven variable angle of reflected beam from 8° to 22°	
Shutter / Strobe / Dimmer	
Strobe- effect with variable speed 1 - 10 flashes per second	
Continuously mechanical dimmer 0 - 100%	
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	**390 mm**
height (head vertical)	**520 mm**
Weight (net)	**19 kg**

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