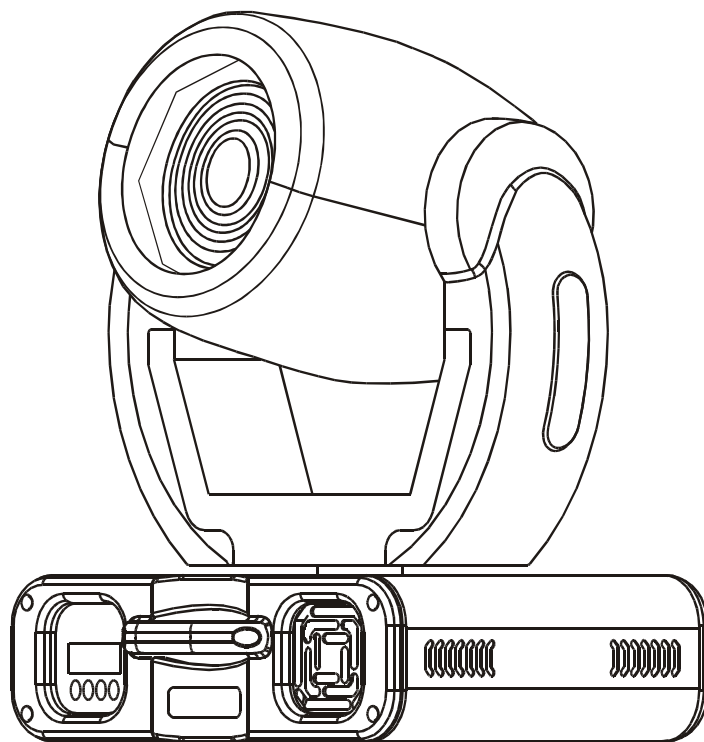# YPOC BASIC COLOR

# Instruction Manual

from software version 1.0
(instruction version 1.0)

GLP

**GERMAN LIGHT**
P R O D U C T S

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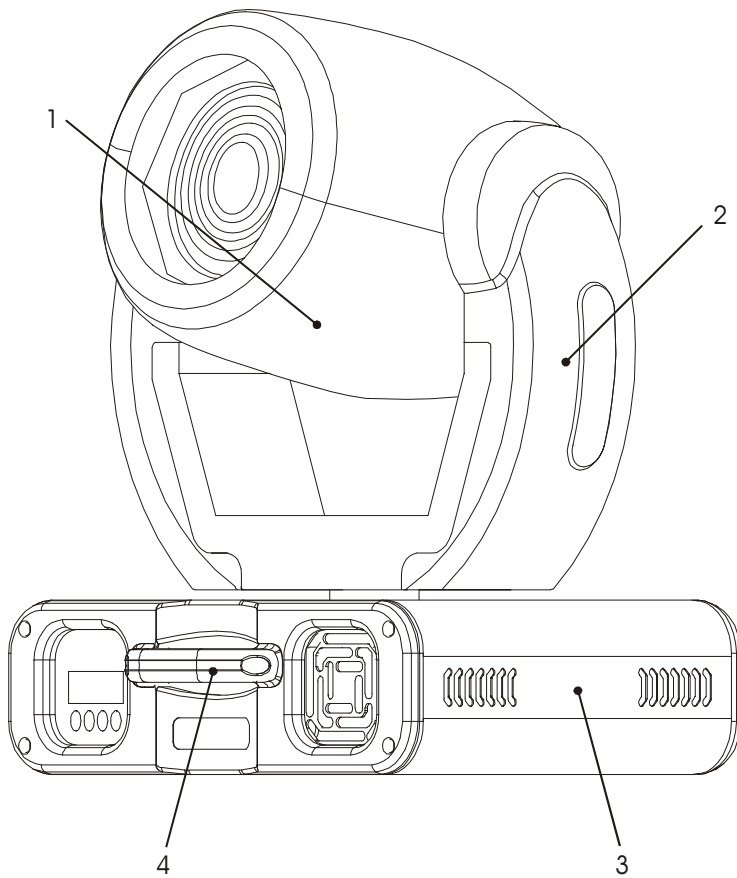Internet: http://www.GLP.de

This side is intentionally unlabelled.

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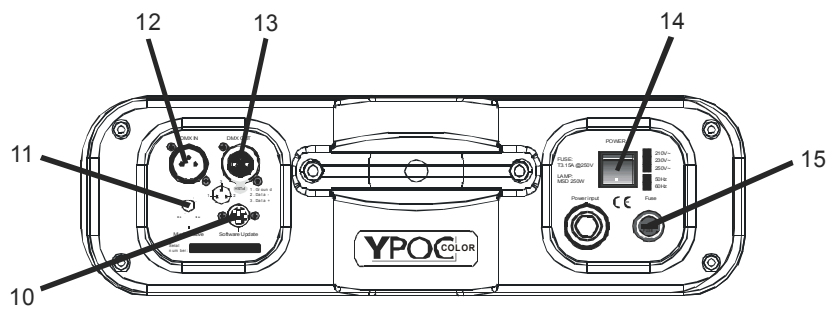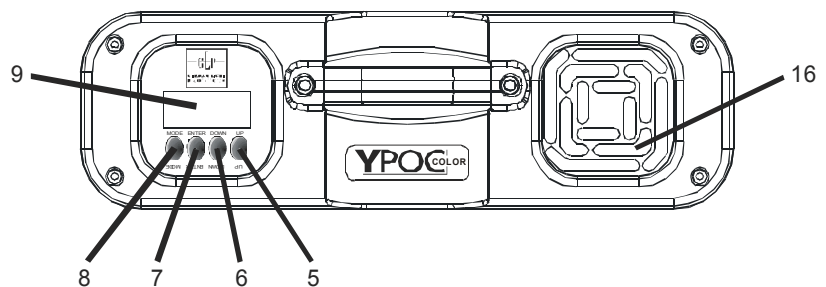
## 1.1 Safety Instructions

> The **YPOC COLOR Basic** 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 COLOR Basic 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 COLOR Basic**. 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 COLOR Basic** 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 COLOR Basic** 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.
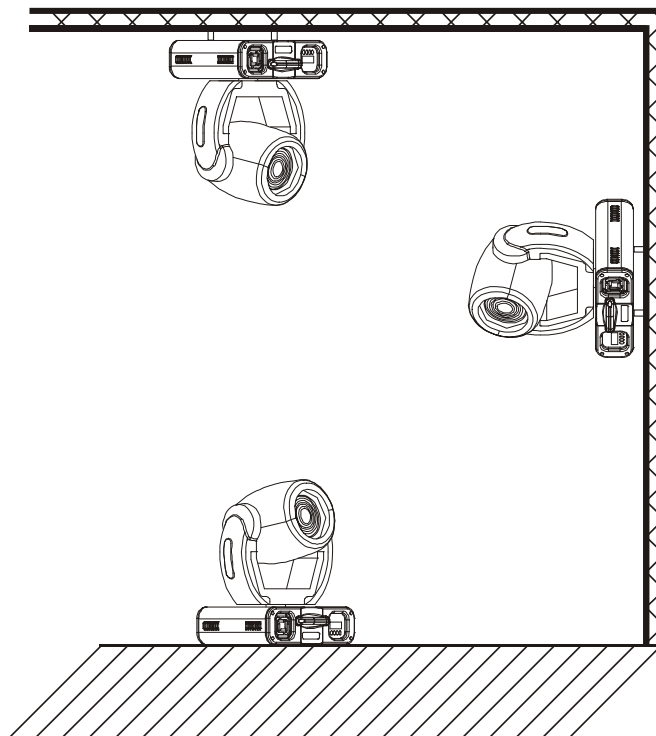


| ⚠ | **Pay attention to the regulations of: BGV C1 (former VBG 70) and DIN VDE 0711-217 ! The installation should be done by qualified staff only.** |
|---|---|

### 2.1.1  Clamps

Use two clamps on the backside of the **YPOC COLOR Basic** to mount the unit on a truss (each two opposite threads max. M10x20). See also printing on the backside of the case.

### 2.1.2  Mounting plate

For a permanent installation of the **YPOC COLOR Basic** you can use a optional mounting plate to fix the unit on a wall. The plate uses 4x screws M6x20.

## 2.2  Secure the YPOC COLOR Basic

Regardless of the rigging of the **YPOC COLOR Basic** 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.
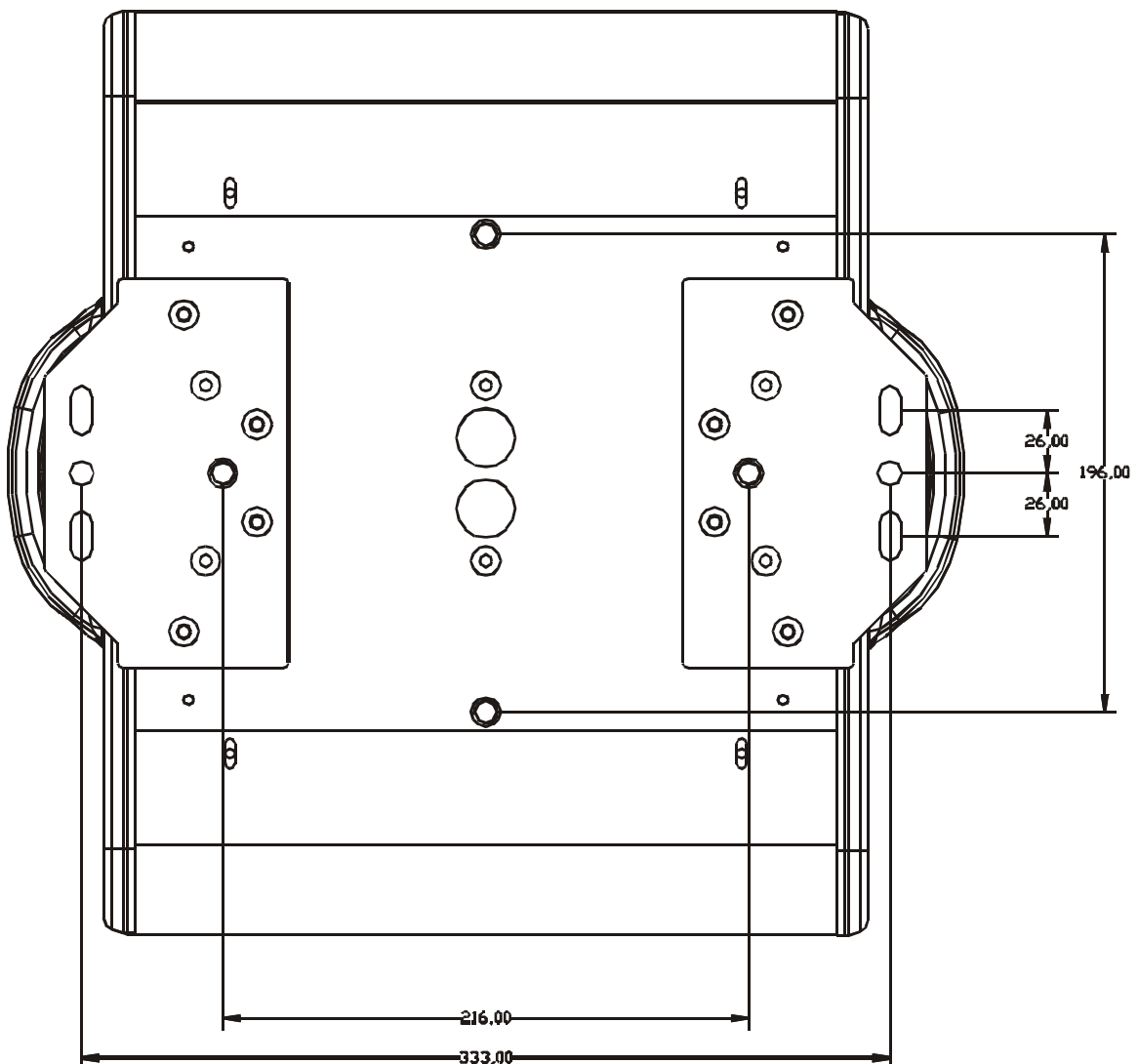
## 2.3 Connections

### 2.3.1 Power supply

230 Volt, 50 Hz,

Connected load 500W <=> 2,2 A (blind current compensation).

or 115V, 60 Hz

Connected load 500W <=> 4,4 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 COLOR Basic** electronic system is protected by a 5x20 mm fuse.

230V / T 3,15A (EU model)   or   115V / T 6,3A (US model)

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

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

- **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 COLOR Basic.** 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.

LED-Display

Mode-key   Enter-key   Down-key   Up-key

**← DOWN - UP →**

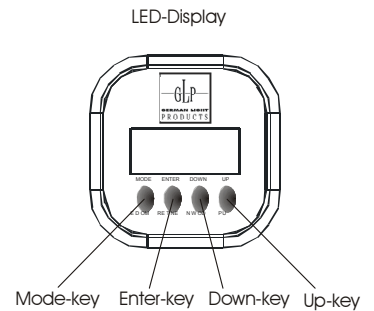| Level 1 | Level 2 | Level 3 | Remark |
|---------|---------|---------|--------|
| DOO1 | | | Define the DMX start address |
| TEST | | | Test program of all functions |
| AUDI | ASLW | | Self-running audio program (slow) |
| | AFST | | Self-running audio program (fast) |
| | MSTR | | Master for the 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 COLOR Basic** |
| 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 | | | Continuously movement of the color wheel |
| 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 |
| | DMX1 | | 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 |
| | | CLRE | Settings in the internal memory (superuser only) |
| | | FACC | Must read *ON*. Protected by a code |
| | | ARES | Adjust- Rest |
| | 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 (*JOO I*)

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

```
JOO I
```

For the address setting please follow this procedure:

1. Switch On the **YPOC COLOR Basic** 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 *JOO 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 COLOR Basic!**

### 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 (*AUJI*)

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 *SPCT* 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 when **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 3.10.1 on page 13.

### 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

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  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 COLOR Basic.**

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 |
| *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 |
| *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. 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 COLOR Basic** 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.

### 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 |
| *COLO* | *0 - 255* | Color wheel (fixed colors) |
| *SHUT* | *0 - 255* | Shutter / Strobe function |
| *SPEC* | *0 - 255* | Lamp OFF, Reset, … |
| *MOVE* | *0 - 255* | Movement |
| *SPED* | *0 - 255* | Speed Pan/Tilt |

### 3.10.5 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 |

### 3.10.6 Fixture Temperature [TEMP]



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



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 COLOR Basic** automatically **switch off** the lamp. |
| LOHI | The fan keeps the adjusted low speed until the temperature exceeds max. inside temperature, then the **YPOC COLOR Basic** automatically switch from low to high fan speed. |

## 3.10.8 Adjustments and Calibrations [ADJU]

<div style="border:1px solid black; display:inline-block; padding:5px; color:red;">ADJU</div>

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 |
|---|---|---|
| COLO | – 99 – + 99 | Color wheel |
| CLRE | Adjustments in the internal circuit. | *For authorized persons only → Service manual* |
| FACC | Must read ON | |
| ARES | Adjust- Reset | |

## 3.10.9 Default Settings [DFSE]

<div style="border:1px solid black; display:inline-block; padding:5px; color:red;">DFSE</div>

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 | | |

### 3.10.10 Feedback [FEED]

FEED

The **YPOC COLOR Basic** 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.

### 3.10.11 Correction of faults [EFLD]

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. |
| 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 | 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, Magenta (fast) | | 16..19 | 10..13 | 6,5 |
| | color 5, Pink (fast) | | 20..23 | 14..17 | 8,0 |
| | color 6, Orange (fast) | | 24..27 | 18..1B | 9,6 |
| | color 7, Canary (fast) | | 28..31 | 1C..1F | 11,2 |
| | color 8, Italian Blue (fast) | | 32..35 | 20..23 | 12,7 |
| | color 9, Turquoise (fast) | | 36..39 | 24..27 | 14,3 |
| | color 10, Jade (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, Magenta (slow) | | 80..83 | 50..53 | 31,6 |
| | color 5, Pink (slow) | | 84..87 | 54..57 | 33,1 |
| | color 6, Orange (slow) | | 88..91 | 58..5B | 34,7 |
| | color 7, Canary (slow) | | 92..95 | 5C..5F | 36,3 |
| | color 8, Italian Blue (slow) | | 96..99 | 60..63 | 37,8 |
| | color 9, Turquoise (slow) | | 100..103 | 64..67 | 39,4 |
| | color 10, Jade (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) 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** |
| 7) Dimmer | Dimmer closed (0%) | | 0..3 | 0..3 | 0..1 |
| | Dimmer  1%...99% | movement time 0,3 Sek. | 4..251 | 4..FB | 2..98 |
| | Dimmer open (100%) | | 252..255 | FC..FF | 99..100 |
| 8) Special | No function | | 0..15 | 00..0F | 0..6 |
| | 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 |

| Channel | Function | | | Time and Value | DMX | HEX | % |
|---|---|---|---|---|---|---|---|
| | 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 |
| **9) Movement** | 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 |
| **10) 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 |

| | | | | |
|---|---|---|---|---|
| **Lamp ON** | Shutter open | 254..255 | FE..FF | 99..100 |
| **Lamp OFF** | Channel 8 ( min. 3 sec. ) (only if shutter is closed, channel 6 = 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 COLOR Basic** into operation close the casing, otherwise your retina can be hurt!

## *5.2  Realize the Lamp Change*

1. **Pull out the main plug!**

2. Open the three screws on the backside of the unit.

3. Pull out the lamp sheet together with the lamp holder securely.

4. Remove the old or broken lamp out of the socket. **<u>Attention:</u>** 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 into the socket. **<u>Attention:</u>** Use only the original lamp type and do not touch the lamp with bare fingers.

6. Put the lamp sheet back into the unit.

7. Close the three screws.

8. Adjust the optimum light output with the tree adjustment screws on the backside.

9. The running time of the lamp $LA1$ can be reseed in the $TIME$ Menu.

# 6  Maintenance and Cleaning the YPOC COLOR Basic

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.

### 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 COLOR Basic** 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.
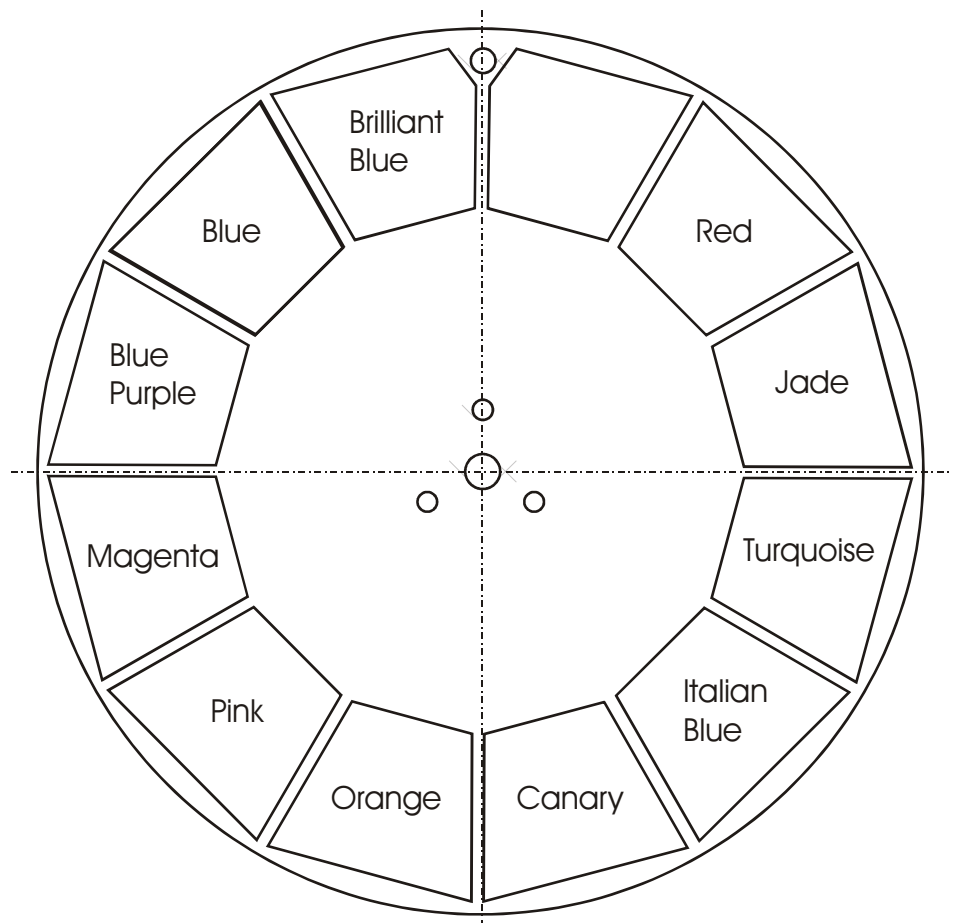
| Position | Interval | In this way |
|---|---|---|
| Outside optic | weekly | soft cloth and glass cleaning fluid |
| Color filter | monthly | soft cloth and glass cleaning fluid |
| Dimmer/Shutter | yearly | vacuum cleaner, airbrush, etc. |
| Fan and air channel | monthly | vacuum cleaner, airbrush, etc. |
| Reflector | yearly | soft cloth and glass cleaning fluid |
| Lampe | **never** | |
| Moveable parts | yearly | suitable fatty oil |

<u>Attention</u>:

- <u>**Never**</u> **let optical parts come into contact with oil or fat.**
- **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 2 on the back side of the head.
4. Do the work as explained in the list above.
5. Before you put the **YPOC COLOR Basic** into operation close the casing, otherwise your retina can be hurt!

Brilliant Blue

Blue

Red

Blue Purple

Jade

Magenta

Turquoise

Pink

Italian Blue

Orange   Canary

## 7  Technical Specification

| Power supply | |
| --- | --- |
| **Power consumption** | 500 Watt (blind current compensated) |
| **EU- model** | AC 230V / 50 Hz~ |
| **Fuse protection** | T3,15A, 250V, 5x20 mm (fine-wire fuse) |
| **US-model** | AC 115V / 60 Hz~ |
| **Fuse protection** | T6,3A, 115V, 5x20 mm (fine-wire fuse) |
| **Lamp** | |
| **Types 1** | MSD/HSD/CSD 230V/250W, socket GY-9,5 |
| **Type 2** | MSD 230V/200W, socket GY-9,5 |
| **Optical system** | |
| Aluminum reflector | |
| Fresnell lens 150mm | |
| **Color** | |
| 11 dichroic filter plus white | |
| **Mechanically adjustable Beam angel  8-22°** | |
| **Shutter / Strobe / Dimmer** | |
| Strobe effect, variable in speed 1 – 10 flashes per second | |
| Continuously mechanical dimmer  0 - 100% | |
| **Controlling** | |
| 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. handles)** |
| **height (head vertical)** | **510 mm** |
| **Weight (net)** | **18 kg** |

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