

Instruction Manual



from software version 1.28 (instruction version 1.07)



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





2

Notes:	





Table of content

1	Des	cription	n of Device	5
	1.1	Safety	Instructions	6
2	Prep	paratio	n and Installation	7
	2.1	Mount	ing	7
		2.1.1	Clamps	7
	2.2	Secure	e the YPOC 700	8
	2.3		ections	
			Power supply	
			DMX	
	2.4			
3	The		Field	
	3.1	Adjust	the DMX- Address (0001)	10
	3.2	The Te	est Program (TEST)	11
	3.3	The A	udio Program (AUDI)	11
	3.4	Lamp	On/Off (LAMP)	11
	3.5	Reset	(RESE)	11
	3.6	Runnii	ng time of lamp and unit {TIME}	12
	3.7	Invert	Pan Movement (RPAN)	12
	3.8	Invert	Tilt Movement (RTLT)	12
	3.9	Specia	al Functions (SPEC)	12
		3.9.1	Manual Drive (MANU)	12
		3.9.2	Lamp On automatically [LARU]	13
		3.9.3	Lamp Off via DMX { 0L0F }	13
		3.9.4	DMX Input { DMX }	14
		3.9.5	Display (015P)	14
		3.9.6	Fixture Temperature {TEMP}	14
		3.9.7	Fan Control (FANS)	15
		3.9.8	Adjustments and Calibrations (ADJU)	15
		3.9.9	Default Settings (DFSE)	16
		3.9.10	Automatic position control / Feedback [FEED]	16
		3.9.11	Correction of faults (EFLG)	17
	3.10	Error a	and Information Messages	17
4	DMX	K Chanı	nel Selection (DMX Protocol)	18
5			the Lamp	
	5.1	Safety	Regulations	23



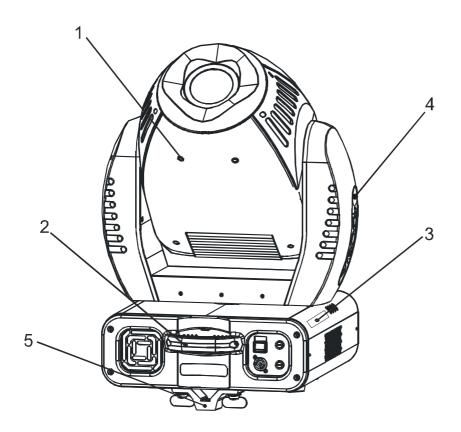


	5.2	Realiz	ze the Lamp Change	23
	5.3	Adjus	ting the lamp position (Hotspot)	24
6	Opt	ical plu	ug-in module (inside the fixture)	25
	6.1		y regulations	
	6.2	Takin	g out and opening optical plug-in	25
	6.3	Chan	ging Gobos and Color filters	27
		6.3.1	General remarks for changing Gobos and Colors	27
		6.3.2	Changing rotating Gobos	29
		6.3.3	Changing fixed Gobos	29
		6.3.4	Changing Color filters	31
7	Mair	ntainin	g and Cleaning the YPOC 700	31
	7.1	Safety	y Regulations	31
	7.2	Circui	mference and Interval (rule-of-thumb)	31
	7.3	Clean	ning the Optical System	32
8	Tec	hnical	Specification	33
0	امما			2.4



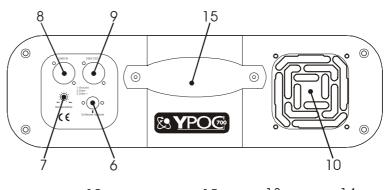


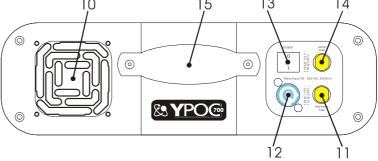
1 Description of Device



- 1. Moving Head
- 2. Carrying handles
- 3. LED- Display (Data entry)
- Head locking system (one-sided in 45° steps)
- 5. Camlock mounting system

- 6. Software-Update connector
- 7. Microphone- Intensity
- 8. DMX- Input
- 9. DMX- Output
- 10. Fan (air inlet/outlet)
- 11. Fuse electronics
- 12. Mains supply (Powercon)
- 13. Power On/Off
- 14. Fuse lamp
- 15. Carrying handles









1.1 Safety Instructions



The **YPOC 700** is a High-Tech Product. To guarantee a smooth operation, it is necessary to respect the following rules.

The manufacturer of this device will not take responsibility of damages through disregard of the information in this manual. Warranty claims 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. <u>Attention:</u> Don't touch the device during the operation. This can cause injuries or damages.
- 3. Unplug the YPOC 700 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 700**. 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 700** 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 claims.
- 10. This device is equipped with a Head locking system. Make sure that before switching on the system is unlocked. Check also that the device can rotate and operate in his entire movement area.

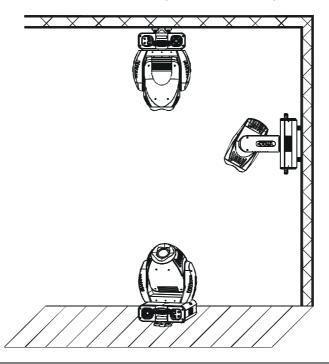




2 Preparation and Installation

2.1 Mounting

The **YPOC 700** 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 easily inflammable materials (decoration etc.).





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.

For mounting and service purposes this device is equipped with a Head locking system which allows you to lock the head in 45° steps. Push the lock button on the side of the arm to lock and unlock the system.

<u>Attention:</u> Make sure that before switching on the system is unlocked. Check also that the device can rotate and operate in his entire movement area.

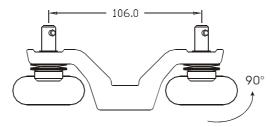
2.1.1 Clamps

There are two major possibilities to mount the **YPOC 700** 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 bottom side of the case.





a) Camlock system: This system allows you a fast and efficient setup of clamps. Attach the two camlocks to designated position (C1 and C2) on the bottom side 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 bottom side of the **YPOC 700** to mount the unit on a truss (each two opposite threads A1 -A4 or A2 - A3, use screws M10 max. length 50 mm). Distances, diameters and positions can also been seen on the printing on the bottom plate of the system.

2.2 Secure the YPOC 700

Regardless of the rigging of the **YPOC 700** you have to use a stipulated safety wire. Therefore you have to pull the safety wire through to two provided holes on the bottom side of the fixture and connect it with the truss-support. Pay attention to a safe and proper fastening. Install a safety wire that can hold at least 10 times the weight of the fixture. Never use the carrying handles for this purpose.

2.3 Connections

2.3.1 Power supply

Electronic ballast with:

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

Connected load 1000W <=> 4.5 A (blind current compensation).

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

2.3.2 DMX

USITT DMX 512 Standard input/output, 3 pole connectors.

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

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

See also printing on the case for the right pin assignment.





2.4 Fuses

The **YPOC 700** electronic system is protected by two 5x20 mm fine-wire fuses.

Lamp: 230V / T 5A Lamp: 115V / T 10A

Electronic: 230V / T 1A Electronic: 115V / T 2A

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 700.** 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 **DK**). Push the **Mode**-key to cancel the entry and go back to the main menu.



	Level 1	Level 2	Level 3
	D001		
	TEST		
	AUD I	. ASLW	
		AFST	
		MSTR	
		SVPT	
		SIZE	
	LAMP		
	RESE		
	TIME	POWR	
		LA1	
个		LA2	
← DOWN - UP →	RPAN		
_	RTLT		
·	DMOD	NORM	
Ź		EXT	
Ó	SPEC	MANU	
Ω		LAAU	
Ψ		DLOF	
		DMX I	= = :
		DISP	D ON
			REV
		TEMP	111511
		FANS	HIGH
			REG
			LOOF
		UCDC	<u>LOHI</u>
		VERS	UTIL
			VTR1
			VTR2
			VTR3
			DBUG

Remark
Define the DMX start address
Test program of all functions
Self-running audio program (slow)
Self-running audio program (fast)
Master for the audio program
Basic position for the audio program
Size for the audio program (NORM-BIG-MIDL-SMAL)
Switch on/of the lamp direct at the YPOC 700
Reset
Running time of the fixture (no destructible)
Running time of the lamp (erasable)
Running time of the lamp (no destructible)
Reverse Pan-direction
Reverse Tilt-direction
DMX Mode: Defines the number of DMX channels
DMX Mode NORM has to be selected at the moment.
Manual drive of all device functions
Automatic lamp start at switching on the unit
Switch off lamp via DMX
Read out actual DMX-values
Display On/Off
Twist the display (also pushing Up/Down keys at the same time)
Read out internal temperature
Maximum cooling fan velocity
Automatic cooling fan control
Low cooling fan speed → lamp off
Low cooling fan speed → Automatic
Software version Tilt-board
Software version driver board 1
Software version driver board 2
Software version driver board 3
Function not yet in use





AD.III	CODE XXXX	Use the code for entering the calibration menu (for authorized
ribad	CODE XXXX	persons only)
	CL1C	Coarse calibration of color wheel 1 (CTO)
	CL1F	Fine calibration of color wheel 1 (CTO)
	CL2C	Coarse calibration of color wheel 2 (CTO)
	CL2F	Fine calibration of color wheel 2 (CTO)
	GOB1	Calibration of gobo wheel 1
	GOB2	Calibration of gobo wheel 2
	GOB3	Calibration of gobo wheel 3
	SHSC	Shutter moves pair wise open and close
	SHOC	Shutter moves pair wise parallel left and right
	FR U	Calibration of frost filter A
	FR 0	Calibration of frost filter b
	PRIS	Calibration of prism wheel
	IRIS	Calibration of iris
	FOCU	Calibration of focus
	POFS	Calibration of Pan-Offsets
	TOFS	Calibration of Tilt-Offsets
	CLRE	Settings in the internal memory (super-user only)
	SPFS	Speed fast - limit the max. Pan velocity to 70%
	ARES	Adjust Reset (all wheels stand still after a reset)
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 (D001)

A rest will be performed right after switching on the **YPOC 700** (the display shows the following information: GLP - Y700 - software version of the unit - *YSTD* for standard module/Spot setup or *YCMY* for CMY module/CMY setup). The reset can last up to 30 seconds. Afterwards the current DMX- Address is shown. If there is no DMX- Signal the display flashes.



For setting the address please follow this procedure:

- 1. Switch On the **YPOC 700** 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 **D001**. 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 DK) or press the **Mode**-key to cancel.

The DMX- Address is stored also while switching off the **YPOC 700!**





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.

(not available in the present software version)

3.3 The Audio Program (AUD!)

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

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

You can also define 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. <u>Notice:</u> The Audio function is only working if <u>no</u> DMX signal is connected. This Audio program can work 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 functioning 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). **Performing a Reset will last approximately 30 seconds.**





3.6 Running time of lamp and unit [TIME]

With this function you can read out three different running times of the fixture.

POWR	Complete running time of the fixture (non-erasable).	
	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 unit with lamp on (non-erasable).	

3.7 Invert Pan Movement (RPAN)



This function allows you to invert the Pan movement. Use the **Up/Down-**keys to select invert **DN** or **DFF**. 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 **DN** or **DFF**. Press **Enter** to confirm or **Mode** to cancel.

3.9 Special Functions (SPEC)



This menu allows you to reach further special functions of the YPOC 700.

In detail they are:

3.9.1 Manual Drive (MANU)



This function allows you to drive all 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.





<u>Attention:</u> The DMX cable must be disconnected during this operation.

Function	Value
PAN	000 - 255
TILT	000 - 255
COL1	000 - 255
COL2	000 - 255
<u> </u>	000 - 255
GRT 1	000 - <u>255</u>
GOB2	<u> </u>
GRT2	000 - 255
GOB3	000 - 255
SHUT	000 - 255
DIMR	000 - 255
FOCU	000 - 255
<i>200</i> M	000 - 255
FRST	000 - 255
PRIS	<i>000 - 255</i>
IRIS	<i>000 - 255</i>
SPEC	<i>000 - 255</i>
MOVE	000 - 255
SPED	<i>000 - 255</i>

Remark
Pan Position
Tilt Position
Color wheel 1
Color wheel 2
Gobo wheel 1
Gobo wheel 1 rotation
Gobo wheel 2
Gobo wheel 2 rotation
Gobo wheel 3
Shutter / Strobe function (the lamp strikes at
DMX 255 if dimmer is "open" = DMX 255)
Dimmer
Focus
Zoom
Frost
Prism (000 – 127) / Stop / Prism- rotation
Iris
Lamp Off, Reset,
Movements
Speed for Pan/Tilt

3.9.2 Lamp On automatically (LARU)



This function enables to strike the lamp automatically after switching on the fixture. Use the **Up/Down-**keys to select **DN** if you want to strike the lamp automatically after switching on the fixture or **DFF** 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 strike the lamp either via DMX or direct at the **YPOC 700** 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 $\mathbf{Up/Down}$ -keys to select \mathbf{DN} if you want to switch off the lamp via DMX or \mathbf{DFF} if you don't want this function. Press \mathbf{Enter} to confirm or \mathbf{Mode} to cancel and return to the menu.

If you have chosen $\mathcal{D}FF$ you have the possibility to switch off the lamp either direct at the **YPOC 700** in the Lamp menu or switch off the main switch.





3.9.4 *DMX Input* { □MX | }

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
COL1	000 - 255	Color wheel 1
COL2	000 - 255	Color wheel 2
GOB1	000 - 255	Gobo wheel 1
GRT 1	000 - 255	Gobo wheel 1
GOB2	000 - 255	Gobo wheel 2
GRT2	000 - 255	Gobo wheel 1
GOB3	000 - 255	Gobo wheel 3
SHUT	000 - 255	Shutter / Strobe
DIMR	000 - 255	Dimmer
FOCU	000 - 255	Focus
ZOOM	000 - 255	Zoom
FRST	000 - 255	Frost
PRIS	000 - 255	Prism wheel (0
IRIS	000 - 255	Iris
SPEC	000 - 255	Lamp Off, Res
MOVE	<i>000 - 25</i> 5	Movement
SPED	<i>000 - 255</i>	Speed for Pan/

Remark
Pan Position
Tilt Position
Color wheel 1
Color wheel 2
Gobo wheel 1
Gobo wheel 1 rotation
Gobo wheel 2
Gobo wheel 1 rotation
Gobo wheel 3
Shutter / Strobe function
Dimmer
Focus
Zoom
Frost
Prism wheel (000 - 127) / Stop / Prism- Rotation
Iris
Lamp Off, Reset,
Movement
Speed for Dan/Tilt

3.9.5 **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.

	Display On/Off (If you've chosen <i>QFF</i> , the display will go out within 15 seconds after the last menu input. The next key touch will reactivate the display).
REV	Turn around the display.
	<u>Note:</u> You can also do this by pushing the Up/Down -keys at the same time.

3.9.6 Fixture Temperature [TEMP]

TEMP

This function allows you to read out the current temperature of the YPOC





700. 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. For a save operation the outside temperature should not exceed <u>45°C</u>.

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.
ı	REG	The fan automatically adapts 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 700 automatically switch off the lamp.
	LOHI	The fan keeps the adjusted low speed until the temperature exceeds max. inside temperature, then the YPOC 700 automatically switch from low to high fan speed .

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

3.9.8 Adjustments and Calibrations (ADJU)



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

For this function is secured by a fixture code. This work should be done by authorized persons only.

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 protec-
		ted (for authorized persons only).
CL1C	- 99 - + 99	Coarse adjustment of the Color wheel 1
CL1F	- 99 - + 99	Fine adjustment of the Color wheel 1
CL2C	- 99 - + 99	Coarse adjustment of the Color wheel 2
CL2F	- 99 - + 99	Fine adjustment of the Color wheel 2
GOB1	- 99 - + 99	Adjustment of Gobo wheel 1
GOB2	- 99 - + 99	Adjustment of Gobo wheel 2
GOB3	- 99 - + 99	Adjustment of Gobo wheel 3
SHSH	- 99 - + 99	Shutter moves pair wise open and close
SHOC	- 99 - + 99	Shutter moves pair wise parallel left and right
FR U	- 99 - + 99	Adjustment of the Frost filter A
FR 0	- 99 - + 99	Adjustment of the Frost filter B
PRIS	- 99 - + 99	Adjustment of the Prism wheel
IRIS	- 99 - + 99	Adjustment of the Iris
FOCU	- 99 - + 99	Adjustment of the Focus
POFS	- 99 - + 99	Adjustment of the Pan-Offsets
TOFS	- 99 - + 99	Adjustment of the Tilt-Offsets
CLRE	Adjustments in t	he internal circuit.
SPFS	- 99 - + 99	Speed fast - limits max. PAN speed to 70%
ARES	- 99 - + 99	Adjust Reset (wheels stand still after the reset)

3.9.9 Default Settings (DFSE)



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

Function	Display
DMX Address	D001
Pan reverse	RPAN
Tilt reverse	RTLT
Automatic lamp on	LAAU
Lamp on via DMX	DLOF
Display	DISP
Cooling fan	FANS
Feedback	FEED

Default Settings				
DO	DO 1			
ON	OFF ✓			
ON	OFF ✓			
ON	OFF ✓			
ON ✓	OFF			
D ON ✓	REV			
HIGH REG ✓	LOOF LOHI			
ON 🗸	0FF			

3.9.10 Automatic position control / Feedback [FEED]



The **YPOC 700** is equipped 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 want to disable this function. Press Enter to confirm or Mode to cancel and return to the menu.

3.9.11 Correction of faults (EFLG)

EFLG (Function available for authorized persons only)

3.10 Error and Information Messages

HEAT	on the display if the lamp doesn't strikes within 20 seconds. The fixtur will store this command and automatically strike the lamp after minutes.					
IG E	When striking the lamp, the electronic ballast will examine whether the lamp is on or not. If the lamp does not strike 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.					
lamp via	e error "IG E" respectively "LAER" it is not anymore possible the start the Shutter = 255. Nevertheless if a renewed ignition attempt is desired, first eset (at the fixture or via DMX). Afterwards you can try again to strike the					
This error message informs you that the fixture was overhead that the relay switches off the lamp. Pleas look for possible read faulty, air in/outlets blocked or very dirty, lamp broken or very high ambient temperature). Switch off the power and solve the problem before switching on again.						
RSER	This message informs you that one of the fixture function wasn't able do its reset correct (magnetic sensor, stepping motor, driver on the PCB, cables, etc.). Repair the defect and start the fixture again.					
, e						





4 DMX Channel Selection (DMX Protocol)

Channel	Function	Time and Value	DMX	HEX	%
1) PAN- coarse	0 530°	min. 2,65 s	0255	00FF	0100
2) PAN-fine	High- Pos High- Pos + 2,1° (16 Bit)		0255	00FF	0100
3) Tilt- coarse	0 285°	min. 1,8 s	0255	00FF	0100
4) Tilt-fine	High- Pos High- Pos + 1,1° (16 Bit)		0255	00FF	0100
5) Color 1	open (fast)	Chaser from color to	01	0001	0,2
0, 00:0: 1	open / color 1 (fast)	color max. 140 BPM	23	0203	1,0
	color 1, red (fast)	=> 0,43 s	45	0405	1,8
	color 1 / color 2 (fast)		67	0607	2,5
	color 2, magenta (fast)		89	0809	3,3
	color 2 / color 3 (fast)		1011	0A0B	4,1
	color 3, purple (fast)		1213	0C0D	4,9
	color 3 / color 4 (fast)		1415	0E0F	5,7
	color 4, blue (fast)		1617	1011	6,5
	color 4 / color 5 (fast)		1819	1213	7,3
	color 5, green (fast)		2021	1415	8,0
	color 5 / color 6 (fast)		2223	1617	8,8
	color 6, yellow (fast)		2425	1819	9,6
	color 6 / color 7 (fast)		2627	1A1B	10,4
	color 7, orange (fast)		2829	1C1D	11,2
	color 7 / color 8 (fast)		3031	1E1F	12,0
	color 8, dark blue (fast)		3233	2021	12,7
	color 8 / color 9 (fast)		3435	2223	13,5
	open (fast)		3663	243F	1525
	open (slow)	Chaser from color to	6465	4041	25,3
	open / color 1 (slow)	color max. 70 BPM	6667	4243	26,1
	color 1, red (slow)	=> 0,86 s	6869	4445	26,9
	color 1 / color 2 (slow)	-,	7071	4647	27,6
	color 2, magenta (slow)		7273	4849	28,4
	color 2 / color 3 (slow)		7475	4A4B	29,2
	color 3, purple (slow)		7677	4C4D	30,0
	color 3 / color 4 (slow)		7879	4E4F	30,8
	color 4, blue (slow)		8081	5051	31,6
	color 4 / color 5 (slow)		8283	5253	32,4
	color 5, green (slow)		8485	5455	33,1
	color 5 / color 6 (slow)		8687	5657	33,9
	color 6, yellow (slow)		8889	5859	34,7
	color 6 / color 7 (slow)		9091	5A5B	35,5
	color 7, orange (slow)		9293	5C5D	36,3
	color 7 / color 8 (slow)		9495	5E5F	37,1
	color 8, dark blue (slow)		9697	6061	37,8
	color 8 / color 9 (slow)		9899	6263	38,6
	open (slow)		100127	647F	4050
	color rotation STOP		128129	8081	50,1
	color rotation, slow-fast, CW	min. 1,4 turns/h	130191	82BF	5175
	color rotation, fast-slow, CCW	max. 2,9 turns/sec.	192253	C0FD	7698
	Audio color chaser slow	each 4 th sound impulse	254	FE	99
		→ new color			
	Audio color chaser fast	each sound impulse → new color	255	FF	100
6) Color 2	open (fast)	Chaser from color to	01	0001	0,2
,	1 1 \ ' '/				- ,—





Channel	Function	Time and Value	DMX	HEX	%
	open / color 1 (fast)	color max. 140 BPM	23	0203	1,0
	color 1, green (fast)	=> 0,43 s	45	0405	1,8
	color 1 / color 2 (fast)		67	0607	2,5
	color 2, brilliant blue (fast)		89	0809	3,3
	color 2 / color 3 (fast)		1011	0A0B	4,1
	color 3, pink (fast)		1213	0C0D	4,9
	color 3 / color 4 (fast)		1415	0E0F	5,7
	color 4, red (fast)		1617	1011	6,5
	color 4 / color 5 (fast)		1819	1213	7,3
	color 5, yellow (fast)		2021	1415	8,0
	color 5 / color 6 (fast)		2223	1617	8,8
	color 6, minus green (fast)		2425	1819	9,6
	color 6 / color 7 (fast)		2627	1A1B	10,4
	color 7, CTO (fast)		2829	1C1D	11,2
	color 7 / color 8 (fast)		3031	1E1F	12,0
	color 8, CTC (fast)		3233	2021	12,7
	color 8 / color 9 (fast)		3435	2223	13,5
	open (fast)		3663	243F	1525
	open (slow)	Chaser from color to	6465	4041	25,3
	color 1, Brilliant Blue (slow)	color max. 70 BPM	6667	4243	26,1
	color 1 / color 2 (slow)	=> 0,86 s	6869	4445	26,9
	color 2, green (slow)	3,000	7071	4647	27,6
	color 2 / color 3 (slow)		7273	4849	28,4
	color 3, pink (slow)		7475	4A4B	29,2
	color 3 / color 4 (slow)		7677	4C4D	30,0
	color 4, red (slow)		7879	4E4F	30,8
	color 4 / color 5 (slow)		8081	5051	31,6
	color 5, yellow (slow)		8283	5253	32,4
	color 5 / color 6 (slow)		8485	5455	33,1
	color 6, minus green (slow)		8687	5657	33,9
	color 6 / color 7 (slow)		8889	5859	34,7
	color 7, CTO (slow)		9091	5A5B	35,5
	color 7 / color 8 (slow)		9293	5C5D	36,3
	color 8, CTC (slow)		9495	5E5F	37,1
			9697	6061	37,8
	color 8 / color 9 (slow) color 1, Brilliant Blue (slow)		9899	6263	38,6
			100127		
	open (slow) color rotation STOP		128129	647F 8081	4050 50,1
	color rotation, slow-fast, CW	min. 1,4 turns/h	130129	82BF	5175
-	color rotation, slow-last, CW	max. 2,9 turns/sec.	192253	C0FD	7698
<u> </u>	Audio color chaser slow	each 4 th sound impulse			
	Audio coloi chasei siow	each 4 sound impulse → new color	254	FE	99
	Audio color chaser fast	each sound impulse →	255	FF	100
	Addio Coloi Chasei last	new color	255		100
7) Gobo 1	Gobo 1 (open, fast)	Chaser from gobo to	07	07	02,9
(indexed)	Gobo 2 (fast)	gobo max. 100 BPM	815	8F	35,9
,	Gobo 3 (fast)	=> 0,6 s	1623	1017	68,9
	Gobo 4 (fast)		2431	181F	911,9
	Gobo 5 (fast)		3239	2027	1214,9
	Gobo 6 (fast)		4047	282F	1517,9
	Gobo 7 (fast)		4855	3037	1820,9
	Gobo 8 (fast)		5663	383F	2123
<u> </u>	Gobo 1 (open, slow)	Chaser from gobo to	6471	4047	2426,9
	Gobo 2 (slow)	gobo max. 40 BPM	7279	484F	2729,9
	GUDU Z (SIUW)	your max. 40 Drivi	1219	404	2129,9





Channel	Function	Time and Value	DMX	HEX	%
	Gobo 3 (slow)	=> 1,51 s	8087	5057	3033,9
	Gobo 4 (slow)		8895	585F	3436,9
	Gobo 5 (slow)		96103	6067	3739,9
	Gobo 6 (slow)		104111	686F	4042,9
	Gobo 7 (slow)		112119	7077	4345,9
	Gobo 8 (slow)		120127	787F	4649
	Gobo rotation STOP		128129	8081	50
	Gobo rotation, slow-fast, CW	min. 1,4 turns/h	130191	82BF	5175
	Gobo rotation, fast-slow, CCW	max. 1.0 turns/sec.	192253	C0FD	7698
	Audio gobo chase, slow	each 4 th sound impulse → new gobo	254	FE	99
	Audio gobo chase, fast	each sound impulse → new gobo	255	FF	100
8) Gobo 1	Gobo position 0 540°		0127	007F	049
Posi./Rot	Gobo rotation STOP		128129	8081	50
	Gobo rotation, slow-fast, CW	min. 2,0 turns/h	130191	82BF	5175
	Gobo rotation, fast-slow, CCW	max. 3,8 turns/sec.	192253	C0FD	76100
	Audio gobo rotation, slow	each 4 th sound impulse → new position	254	FE	99
	Gobo position 0 540°	·	255	FF	100
9) Gobo 2	Gobo 1 (open, fast)	Chaser from gobo to	07	07	02,9
(indexed)	Gobo 2 (fast)	gobo max. 100 BPM	815	8F	35,9
,	Gobo 3 (fast)	=> 0,6 s	1623	1017	68,9
	Gobo 4 (fast)		2431	181F	911,9
	Gobo 5 (fast)		3239	2027	1214,9
	Gobo 6 (fast)		4047	282F	1517,9
	Gobo 7 (fast)		4855	3037	1820,9
	Gobo 8 (fast)		5663	383F	2123
	Gobo 1 (open, slow)	Chaser from gobo to	6471	4047	2426,9
	Gobo 2 (slow)	gobo max. 40 BPM	7279	484F	2729,9
	Gobo 3 (slow)	=> 1,51 s	8087	5057	3033,9
	Gobo 4 (slow)	,	8895	585F	3436,9
	Gobo 5 (slow)		96103	6067	3739,9
	Gobo 6 (slow)		104111	686F	4042,9
	Gobo 7 (slow)		112119	7077	4345,9
	Gobo 8 (slow)		120127	787F	4649
	Gobo rotation STOP		128129	8081	50
	Gobo rotation, slow-fast, CW	min. 1,4 turns/h	130191	82BF	5175
	Gobo rotation, fast-slow, CCW	max. 1.0 turns/sec.	192253	C0FD	7698
	Audio gobo chase, slow	each 4 th sound impulse → new gobo	254	FE	99
	Audio gobo chase, fast	each sound impulse → new gobo	255	FF	100
10) Gobo 2	Gobo position 0 540°	- J	0127	007F	049
Posi./Rot	Gobo rotation STOP		128129	8081	50
	Gobo rotation, slow-fast, CW	min. 2,0 turns/h	130191	82BF	5175
	Gobo rotation, fast-slow, CCW	max. 3,8 turns/sec.	192253	C0FD	76100
	Audio gobo rotation, slow	each 4 th sound impulse → new position	254	FE	99
	Gobo position 0 540°	7 poolaon	255	FF	100
11) Gobo 3	Gobo 1 (open, fast)	Chaser from gobo to	03	0003	01
(fixed)	Gobo 2 (fast)	gobo max. 100 BPM	47	0407	23





Channel	Function	Time and Value	DMX	HEX	%
	Gobo 3 (fast)	=> 0,6 s	811	080B	34
	Gobo 4 (fast)	-7	1215	0C0F	56
	Gobo 5 (fast)		1619	1013	67
	Gobo 6 (fast)		2023	1417	89
	Gobo 7 (fast)		2427	181B	910
	Gobo 8 (fast)		2831	1C1F	1112
	Gobo 9 (fast)		3235	2023	1314
	Gobo 10 (fast)		3235 2023 3639 2427		1415
	Gobo 1 (open, slow)	Chaser from gobo to	6467	4143	2526
	Gobo 2 (slow) gobo max. 40 BPM 687		6871	4447	2728
	Gobo 3 (slow)	=> 1,51 s	7275	484B	2829
	Gobo 4 (slow)		7679	4C50	3031
	Gobo 5 (slow)		8083	5153	3233
	\ /		5457	3334	
	Gobo 7 (slow)		8891	585B	3536
	Gobo 8 (slow)		9295	5C5F	3637
	Gobo 9 (slow)		9699	6063	3839
	Gobo 10 (slow)		100103	6467	3940
	Gobo rotation STOP		128129	8081	50
	Gobo rotation, slow-fast, CW	min. 1,4 turns/h	130191	82BF	5175
	Gobo rotation, fast-slow, CCW	max. 1.0 turns/sec.	192253	C0FD	7698
	Audio gobo chase (slow	each 4 th sound impulse → new gobo	254	FE	99
	Audio gobo chase (fast)	each sound impulse → new gobo	255	FF	100
12) Shutter	Shutter closed		015	000F	06
,	Random Strobe (different pattern)		1631	101F	711,9
	Strobe Pulse effect , slow - fast	min. frequent 0,7 Hz	3247	202F	1212,9
	Audio Shutter		4863	303F	1325
	Strobe effect, slow - fast	max. frequent 10 Hz	64239	40EF	2693
	Shutter open (lamp start)		240255	F0FF	94100
13) Dimmer	Dimmer closed (0%)		03	03	01
- ,	Dimmer 1%99%	movement time 0,3 sec.	4251	4FB	298
	Dimmer open (100%)	,	252255		
14) Focus	In (near) - out (far)	full distance 1,5 sec.	0255	0FF	0100
15) Zoom	Inside (near) - outside (far)	full distance 1,5 sec.	0255	0FF	0100
16) Frost	Open (0%) - retracted (100%)	full distance 1,5 sec.	0255	0FF	0100
17) Prism	Prism swing out		05	0005	02
II) FIISIII	Prism position 0 540°		6129	067F	050
	•				
	Prism rotation stop		130191	80BF	5175
	Prism rotation, slow-fast, CW	min. 1,6 turns/h	192253	C0FD	76100
	Prism rotation, fast-slow, CCW	max. 4,4 turns/sec.	254	FE	99
	Audio prism rotation, slow	each 4 th sound impulse → new prism	255	FF	100
18) Iris	Iris open – closed		0127	007F	0049
	Ascend with Shutter, random		128143	808F	5056
	Descend with Shutter, random		144159	909F	5662
	Ascend with Shutter, audio		160175	A0AF	6368
	Descend with Shutter, audio		176191	B0BF	6974
	Ascend with Shutter	slow - fast	192207	C0CF	7581
	Descend with Shutter	slow - fast	208223	D0DF	8287
	Pulse - effect	slow - fast	224239	E0EF	8893
	Ascend - descend effect	slow - fast	240253	F0FD	9499





Channel	Function			Time and Value	DMX	HEX	%
	Iris open				254255	FEFF	100
19) Special	No function				015	000F	06
	Gobo 1 shak	e +/- 10°		3,5 moves / min. up to	1631	101F	712
	slow – fast			60 moves / max.			
	Gobo 1 shak	e +/- 20°		3,5 moves / min. up to	3247	202F	1318
	slow – fast			60 moves / max.			
	Gobo 1 shak	e +/- 30°		3,5 moves / min. up to	4863	303F	1924
	slow – fast	/ 400		60 moves / max.	04.70	40.45	05.04
	Gobo 2 shak	e +/- 10°		3,5 moves / min. up to	6479	404F	2531
	slow – fast Gobo 2 shak	o +/ 30°		60 moves / max. 3,5 moves / min. up to	8095	505F	3237
	slow – fast	e +/- 20		60 moves / max.	6095	3036	3231
	Gobo 2 shak	A +/- 30°		3,5 moves / min. up to	96111	606F	3843
	slow – fast	e 17-30		60 moves / max.	30111	0001	3073
	Color 1 chase	er C/C+1		0,7 BPS 2,3 BPS	112127	707F	4450
	slow – fast	CI 070.1		=> 1,43 s 0,43 s	112121	7071	4400
	Color 1 chase	er C / C+2		0,7 BPS 2,0 BPS	128143	808F	5156
	slow – fast	- ·		=> 1,43 s 0,5 s			
	Color 2 chase	er C / C+1		0,7 BPS 2,3 BPS	144159	909F	5762
	slow - fast			=> 1,43 s 0,43 s			
	Color 2 chase	er C / C+2		0,7 BPS 2,0 BPS	160175	A0AF	6368
	slow – fast			=> 1,43 s 0,5 s			
	Audio Pan /	Γilt slow		each 4 th sound impulse	176191	B0BF	6974
				→ new position			
	Audio Pan /			each sound impulse →	192207	C0CF	7581
				new position			
	No function				208223		8287
		ong as temp.			224229	E0E5	8890
		min. 3 sec.) i	f Shutter		230249	E6F9	9297
	closed '000'				050 055		00.400
00) 14	Reset				250255	FAFF	98100
20) Move-		no movement			0	00	0
ment	Movement PAN	Size	Phase 0°		0101	0101	0 E
	PAIN	1	90°				0,5
		1			0203	0203	1,0
		1	180°		0405	0405	1,7
	PAN	1 2	270°		0607 0809	0607	2,5
	PAIN	2	90°			0809	3,3
	+	2	180°		1011 1213	0A0B 0C0D	4,1 4,9
	+	2	270°		1415	0E0F	5,7
	PAN	3	0°		1617	1111	6,5
	FAIN	3	90°		1819	1213	7,3
	+	3	180°		2021	1415	8,0
		3	270°		2223	1617	8,8
	PAN	4	0°		2425	1819	9,6
	1 /31 %	4	90°		2627	1A1B	10,4
		4	180°		2829	1C1D	11,2
		4	270°		3031	1E1F	12
	TILT	-т		see also PAN	3263	203F	1325
	PAN / TILT			see also PAN	6495	405F	2637
	PAN / TILT (i	nverse)	•	see also PAN	96127	607F	3850
	Circle			see also PAN	128159	809F	5162
	Circle (invers	se)		see also PAN	160191	A0BF	6375
	100.0 (1114010		Joine of Pridoc		1 .00101	,	5570





Channel	Function		Time and Value	DMX	HEX	%
	lying eight	size / phase	see also PAN	192223	C0DF	7687
	random movement	size see als	o PAN	224255	E0FF	88100
21) Speed	Pan/Tilt relative movement			015	000F	06
Pan/Tilt						
	Pan/Tilt slow – fast		Pan min. 530° = 200 s	16255	10FF	7100
	Use this channel 14) also for the speed		Pan max. 530° = 2,65 s			
	of the movements (channel 13).		Tilt min. 285° = 110 s			
			Tilt max. 285° = 1,8 s			

Lamp ON	Shutter open	Channel 12	240255	F0FF	94100
Lamp OFF	Lamp OFF (min. 3 sec.) if Shutter	Channel 19 and	230249	6E9F	9297
Lamp Or I	closed '000'	Channel 12	0	0	0
Reset		Channel 19	250255	FAFF	98100

5 Changing the Lamp

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

5.1 Safety Regulations

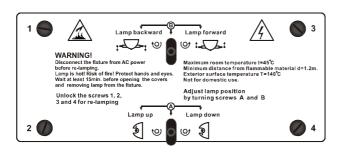
- Pull out the main plug!
- Wait min. 20 minutes after the last operation to cool down the fixture.
- For a safe and convenient operation the head can be locked in various positions. Please unlock the head before switching on again.
- Don't touch the bulb of the lamp with bare fingers (this can cause damages).
- Before you put the YPOC 700 into operation close the casing, otherwise your retina can be hurt!

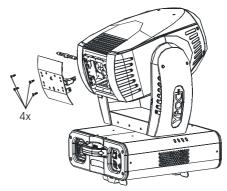
5.2 Realize the Lamp Change

- 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.



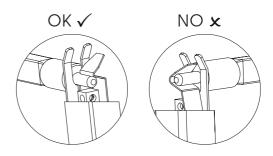






- 3. Open the four quick release fasteners (1, 2, 3 and 4) of the backside lamp sheet and remove it carefully.
- 4. Remove the old or broken lamp from the two sidewise lamp clip fasteners.

 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 (2x clip fasteners). The lamp filler neck must be towards the backside of the reflector. <u>Attention:</u> Use only original lamp types!



- 6. Pull the lamp holder sheet safely back in the shaft and close the four quick release fasteners.
- 7. The running time of the lamp *LR1* can be reseed in the *T IME* Menu.

5.3 Adjusting the lamp position (Hotspot)

You should adjust the lamp position after each lamp exchange. This is necessary because each lamp has small fabrication variations and the illumination and imaging of the fixture can be not optimal. For this purpose the YPOC is equipped with an adjustment system of the lamp, consisting of two set screws on the backside lamp sheet (set screw A and B). The lamp adjustment is a matter of the users taste but will best be done as follows:

- 1. Move lamp with set screw B forewords/backwards until a very bright luminous spot (hotspot) can been seen best.
- 2. Move lamp with set screw A upward/downwards until this hotspot is in the center of the illumination.
- 3. Use again set screw B to move lamp forewords/backwards until you've





reached the most even illumination. Note: A slide hotspot will always remain and is conditional to the optical system.

6 Optical plug-in module (inside the fixture)

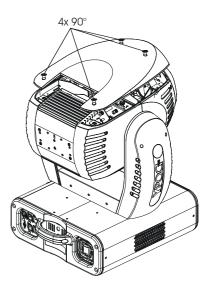
The **YPOC 700** is equipped with an optical plug-in which can removed completely. This allows you a very comfortable and fast way to do all types of services inside the fixture like as changing gobos and colors, cleaning or maintenance. Please apply for this the following procedure:

6.1 Safety regulations

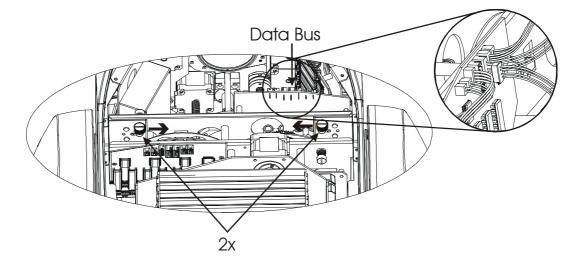
- Pull out the main plug!
- Wait min. 20 minutes after the last operation to cool down the fixture.
- For a safe and convenient operation the head can be locked in various positions. Please unlock the head before switching on again.
- Don't touch the bulb of the lamp with bare fingers (this can cause damages).
- Before you put the YPOC 700 into operation close the casing, otherwise your retina can be hurt!

6.2 Taking out and opening optical plug-in

- 1) Please lock the head for a safe and convenient operation.
- 2) Open the upper shell of the head casing by loosening the 4 quick release fasteners. Two on the front side and 2 on the back side of the head. Hang out the head safety.
- 3) Disconnect the right "Data Bus" cable from the circuit board of the plug-in. This is the only connection which needs to be removed.



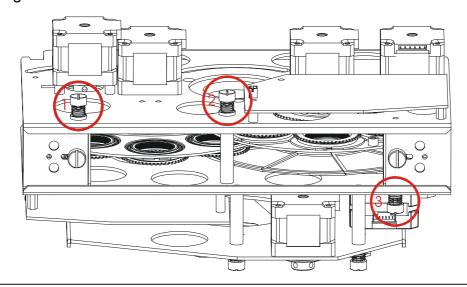




4) Open the two locking screws one on the left and one on the right side by 1-2 turns (it is not necessary to remove them completely). Press them inwards to open the lateral locking and pull out the plug-in carefully. The plug-in is lead by two lateral tracks. A moderate effort is normal when pulling out.

Attention: Don't use sensitive components like optical devices, Gobo- and Color wheels or cables to remove the plug-in. You can use the metal plates or the stepping motors instead.

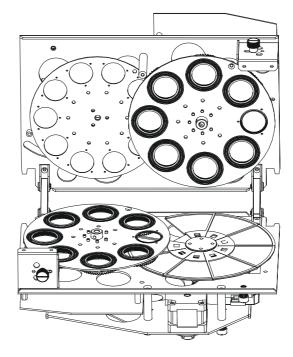
- 5) Please remove the optical plug-in now completely and put it carefully down.
- 6) Open the three knurled screws lying on the central axis of the plug-in. There are further knurled screws on the module which do not have to be open for changing Gobos or Color filters.







7) Open the module and put it on the backside down. You can now reach all Gobo- or Color wheels.



- 8) Realize the exchange or service as desired \rightarrow see following chapters below.
- 9) Fold up the module again and screw up the three knurled screws by hand.
- 10) Insert the plug-in back to the fixture and the two lateral tracks. Push it carefully down until the two locking screws snap in. Close them hand-screwed.
- 11) Connect the "Data Bus" cable with the corresponding socket again.
- 12) Close the **YPOC 700** in reverse order.

6.3 Changing Gobos and Color filters

The is **YPOC 700** equipped both with Aluminum- and Glass gobos (outside diameter 27 mm, image size 23 mm). When using customized Gobos like company logos and writing the recommended image size is 20 mm. You can use either Aluminum (thickness = 0.3 mm) or glass gobos (thickness = 1.1 - 3.0 mm).

There are two Gobo wheels with rotating Gobos and one with fixed Gobos. All Gobos as well as the Color filters can be exchanged as desired.

6.3.1 General remarks for changing Gobos and Colors

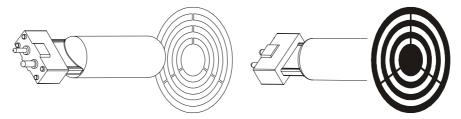
All Gobos, Color filters or other optical effects do have a dedicated mounting direction. To prevent undesired damages and to optimize the optical illustration, all effect should be mounted with their reflecting side in





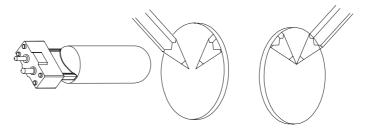
the direction of the lamp. This means for:

a) Aluminum Gobos must be mounted with their unpainted side toward the lamp. The black painted side in the direction of the front lens.

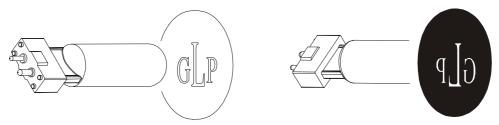


b) Glass Gobos must be mounted with their reflecting side toward the lamp. For Gobo holder this is already set in advance. In case you would like to exchange also them (e.g. to use customized Gobos with company logos etc.) you should make sure that also here the reflecting side is in the direction of the lamp. But this is not always very simple so please apply the following test.

Hold for example a pencil directly in front of the Gobo. If this is the uncoated side of the Gobo you will see a small distance (thickness of the Glass Gobo) between the mirror image and the pencil \rightarrow This is the reflecting side which should be mounted towards the lamp.



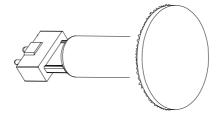
Attention: Customized Gobos like company logos and writing do also have a right reading assembly direction so that they are not right-left-reversed. The readably side must in any case mounted towards the lamp. To have here also the reflecting side at the same moment the Gobos must be fabricated accordingly. Please instruct your Gobo supplier accordingly.



c) Glass Gobos with a structured surface must be mounted with the structured surface towards the lamp and the flat side towards the front lens.



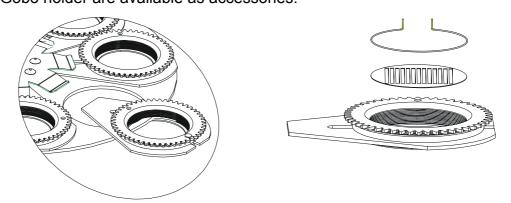




d) Color filter are already pre-mounted on the color filter holder which guarantees the correct assembly. No further measures are necessary.

6.3.2 Changing rotating Gobos

- 1) The fixture is open as described above. The optical plug-in module is taken out and opened as well.
- 2) Press the Gobo holder at the outer part of the wheel carefully out of the hub. Pull it softly out of the central spring-holder jig.
- 3) Now the Gobo itself can be exchanged inside the Gobo holder if desired. Remove the centric spring with a small screwdriver or a gripping pliers. Change the Gobo and put the spring in again. But, it is much more comfortable if the complete Gobo holder is exchanged. Gobo holder are available as accessories.



- 4) Pull the Gobo holder back into the central spring-holder jig in the the middle of the Gobo wheel and snap it in. You can open the central spring-holder with a bent screwdriver through a hole from the opposite side of the wheel.
- 5) Push the Gobo holder in the dedicated hub.

<u>Attention:</u> There must be no gap between the Gobo holder and the wheel afterwards. Check for a tight fit.

6.3.3 Changing fixed Gobos

1) The fixture is open as described above. The optical plug-in module is taken out and opened as well.





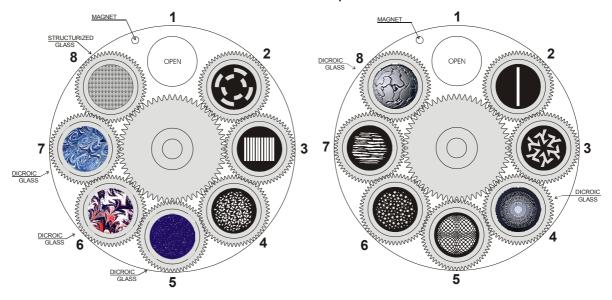
0

2) Fixed Gobos can be directly pulled out from the two Gobo lateral springs. You can also use a small screwdriver to lift the two springs carefully.

3) Exchange the Gobo and insert the new one under the two lateral holding springs.

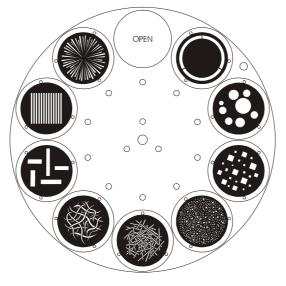
<u>Attention:</u> Please make sure that the Gobo fits tight between the tree concentric noses.

Note: Fixed Gobos made of Aluminum are very thin and bendable. Twisted Gobos are causing out of focus images. Make sure that the inserted Gobos are plain and unbend.



Gobo wheel 1 with rotating Gobos

Gobo wheel 2 with rotating Gobos



Fixed Gobo wheel 3





6.3.4 Changing Color filters

- 1) The fixture is open as described above. The optical plug-in module is taken out and opened as well.
- 2) Pull the Color filter holder carefully out of the central spring-holder jig. Use for example a small flat-noses pliers or do it by hand.

Note: This will work best if the two "open" positions are overlapping.

3) Exchange the complete Color filter holder and pull it back into the central spring-holder jig. You can also use a small screwdriver to lift the spring carefully.

Attention: Please make sure that the Color filter holder is snapped in and fits tight.

7 Maintaining and Cleaning the YPOC 700

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 or damages can occur. 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 700 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. Therefore the intervals given 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/Iris	yearly	vacuum cleaner, airbrush, etc.
Inside lens	monthly	soft cloth <u>no</u> glass cleaning fluid
Fan and air channel	monthly	vacuum cleaner, airbrush, etc.
Reflector	never	
Lamp	never	
Moveable parts	yearly	suitable fatty oil

Attention:

- Never let optical parts come into contact with oil or fat.
- Before running the fixture wait until all parts are dried up.
- Clean lenses only with dry clothes. Never use water or other cleaners.
- Change lenses if they look milky. 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 quick look fasteners. 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 700** into operation close the casing, otherwise your retina can be hurt!





8 Technical Specification

Power supply			
Power consumption	~90 - 260V, 50 - 60 Hz		
	1000 Watt, 4.5 A, 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			
Туре	HTI 700-DE (OSRAM, SharXS)		
Live time	750h		
Color temperature	7500k		
Luminous flux	59.000 lm		
Optical system			
Dichroic coated glass reflector			
Beam angel 14° - 32°			
Lenses hardened and tempered, anti-reflex coated			
Colors (8/16 Bit)			
Color wheel 1: 8 dichroic filters plus white, 9 half colors			
Color wheel 2: 8 dichroic filters plus white, 9 half colors, 1x CTC 5500, 1x CTC 3200			
Gobos (8/16 Bit)			
Gobo-wheel 1: 7 exchangeable rotating gobos plus "open"			
Gobo-wheel 2: 7 exchangeable rotating gobos plus "open"			
Gobo-wheel 3: 9 fixed exchangeable standard gobos plus "open" Gobo outside diameter 27 mm, image size 23 mm. For customized Gobos like company logos			
and writing the recommended image size is 20 mm All gobos as aluminum or glass Gobos exchangeable, 11 spare Gobos			
Gobo thickness: glass = 1.1 - 3.0 mm, aluminum = 0.3 mm			
Shutter / Strobe / Dimmer (8/16 Bit)			
Strobe- effect with variable speed 1 - 10 flashes per second			
Continuously mechanical dimmer 0 - 100%			
Prism (8/16 Bit)			
Rotating 3-face prism, rota	iting and variable in speed		
Focus (8/16 Bit)			
Motor driven focus from near (2 m) to far away			
Iris (8/16 Bit)			
High-Speed Iris 100% - 4% (0,2 Sec. opening time)			
Zoom (8/16 Bit)			
Zoom range 14° - 32°			
Drive			
Standard USITT DMX-512, 3 pole XLR; [+] = Pin 3 [-] = Pin 2 [Ground] = Pin 1.			
	ts 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	490 mm		
Length of the base	380 mm		
height (head vertical)	646 mm		
Weight (net)	28.5 kg		





9 Index

A
Audio11
В
BGV C17
C
Calibrations15
Camlock system 8
Circumference31
Clamps
Cleaning
D
Default Settings16
Description of Device5
DIN VDE 0711-2177
Display14
DMX- Address
DMX I
DIVIX PTOLOCOI
E
e-mail1
Errors
F
Fan Control
Fan Control

G Gobowechsel27
Gobowecisei21
Injury of the retina 6 Installation 7 instruction version 1 Internet 1
MMaintenance31Menu Field9Mounting7
P
Power supply8
R
Reset11
S
Safety Instructions 6 Software version 1 Software-Update connector 5 Special Functions 12
T
Technical Specification
V
\/PC 70





