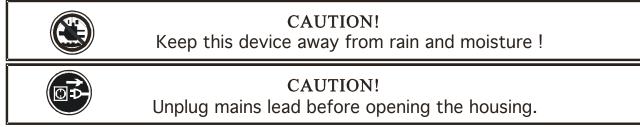


# **V300SP-E**

KEEP THIS MANUAL FOR FUTURE NEEDS  $\mathsf{CE}$ 

] XM191. Thank you for your patronage. We are confident that our excellent products and service can satisfy you.

For your own safety, please read this user manual carefully before installing the device.



Every person involved with the installation, operation and maintenance of this device has to: -be qualified

-follow carefully the instructions of this manual

# **INTRODUCTION:**

Thank you for having chosen this professional moving head. You will see you have acquired a powerful and versatile device.

Unpack the device. Inside the box you should find: the fixture device, an XLR connection cable, a safety rope and this manual. Please check carefully that there is no damage caused by transportation. Should there be any, consult your dealer and don't install this device.

# Features:

\_Lamp: Philips MSR GOLD 300 FASTFIT

\_3 Control channel modes: 20 / 22 /33 channel

\_Stand alone operation with master/slave function, can be sound activated

\_Pan/tilt movement: 8 bit and 16 bit resolution

For smooth and precise resolution Pan: 540°/630° optional, Tilt: 246° movement High speed of pan/tilt movement, speed of pan/tilt movement is

adjustable

Scan position memory, auto reposition after unexpected movement CMY color mixture to get indefinite color effects

- \_Motorized color wheel with 8 dichroic filters and open, rainbow-effect with adjustable speed in both directions
- \_Preset color and gobo-macros
- \_One rotation gobo wheel with 6 rotating gobos plus open each, One fixation gobo wheel with 7 gobos plus open, both 2 gobo wheels have different speed of gobo shaking and rainbow effect, and gobo indexing
- \_Prism : 3 -facet speed adjustable prism rotates in two directions with 16 prism macros effect
- \_Separetly stepless frost filter to achieve variable soft beam
- \_Linear dimmer in precise speed from 0~100%
- \_Preset variable iris, dimmer, shutter, pulse effects
- \_Strobe effect with 1-13 flashes per second or random strobe via shutter
- \_Friendly colored LCD display

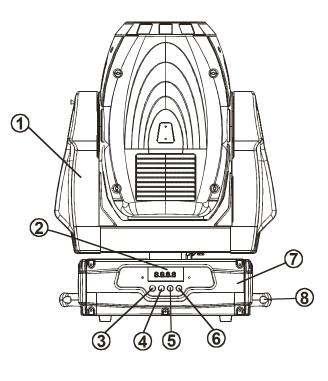
\_Battery buffered Control Board for operation time readouts etc

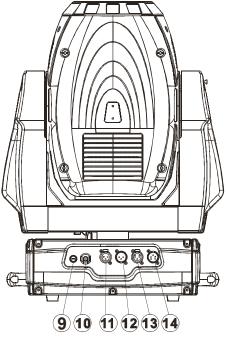
\_Local and remote lamp on/off

\_Preset program: 7 built in programs can be called up via DMX controller

\_Editable program: Edit and save the program to inside EEPROM via the control board or external controller, up to 250 scenes can be saved and then can be run in Stand Alone or sound activated. \_Number of scenes in Program Run can be changed individually

# **OVERVIEW**





- (1) Yoke
- (2) LCD-Display
- (3) Mode/esc-button
- (4) Up-button
- (5) Down-button
- (6) Enter-button
- (7) Base
- (8) Carrying handle
- (9) Fuse holder
- (10) Power supply
- (11)3-PIN DMX output socket
- (12) 3-PIN DMX input socket
- (13)5-PIN DMX output socket
- (14)5-PIN DMX input socket

2 XM191-V1 0-NR

# SAFETY INSTRUCTIONS



CAUTION! Be careful with your operations.With a dangerous voltage you c Suffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

# Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature.

This device falls under protection-class I. Therefore it is essential that the device be earthed. The electric connection must carry out by qualified person.

The device shall only be used with rate voltage and frequency. Make sure that the available voltage is not higher than stated at the end of this manual.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

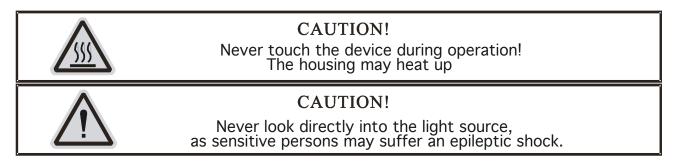
Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.



Please be aware that damages caused by manual modifications to the device are not subject to warranty. Keep away from children and non-professionals.

# **GENERAL GUIDELINES**

This device is a lighting effect for professional use on stages, in discotheques, theatres, etc. This fixture is only allowed to be operated with the max alternating current which stated in the technical specifications in the last page of this manual, the device was designed for indoor use only. Lighting effects are not designed for permanent operation. Consistent operational breaks may ensure that the device will fanction properly for a long time.

Do not shake the device. Avoid brute force when installing or operating the device. The device shall only be used complete with its protective shield.

While choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. The minimum distance between light-output from the projector and the illuminated surface must be more than 0.5 meter.

Always fix the fixture with an appropriate safety cable if you use the quick lock cam in hanging up the fixture, please make sure the 4 quick lock fasteners turned in the quick lock holes correctly.

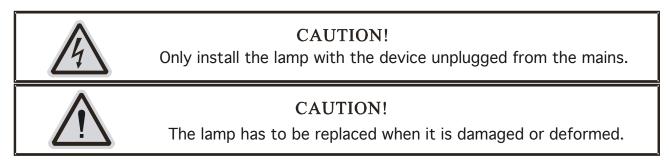
Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation.

Please use the original packaging if the device is to be transported. For safety reasons, please be aware that all modifications on the device are forbidden.

If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to short-circuit, burns, electric shock, lamp explosion, crash, etc.

# INSTALLATION INSTRUCTIONS

# a) Installing or replacing the lamp

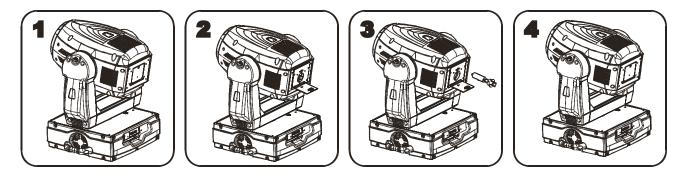


Before replacing the lamp let the lamp cool down, because during operation, the lamp can reach very high temperature.

During the installation of halogen lamps do not touch the glass bulbs bare handed. Always use a cloth to handle the lamps during insertion and removal.

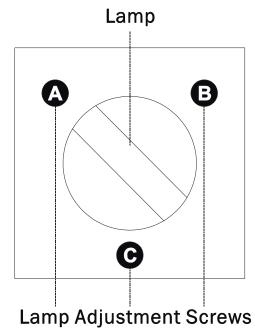
Do not install lamps with a higher wattage. They generate higher temperatures than which the device was designed for.

For the installation, you need one Philips MSR GOLD 300 FASTFIT **Procedure:** 



1).Center the hot-spot (the brightest part of the beam) using the 3 adjustment screws located under the lamp cover labeled A, B, and C as illustrated on the next page. Turn one screw at a time to drag the hot-spot diagonally across the projected image. If you cannot detect a hot-spot, adjust the lamp until the light is even.

2).To reduce a hot-spot, pull the lamp in by turning all three screws clockwise a 1/4-turn at a time until the light is evenly distributed.



Please remember the lamp is not a hot-restrike type, you must wait for approximately 15 minutes after having turned off the lamp before you can turn it back on again.



# CAUTION!

Do not operate this device with open cover

# b) Mounting the device



# **CAUTION!**

Please consider the GB7000.15/EN60598-2-17 and the other respective national norms during the installation. The installation must only be carried out by a qualified person.

The applicable temperature for the lighting is between -25°C to 45°C. Do not use the lighting under or above the temperature.

The installation of the effect has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.

The installation must always be secured with a secondary safety attachment, e.g. an appropriate safety cable.

Never stand directly below the device when mounting, removing or servicing the fixture.

The operator has to make sure the safety relating and machine technical installations are approved by an expert before taking the device into operation for the first time.

These installations have to be approved by a skilled person once a year.



CAUTION! Before taking into operation for the first time, the installation has to be approved by an expert.

# **Cautions:**

The effect should be installed outside areas where persons may reach it, walk by or be seated.



CAUTION! When installing the device, make sure there is no highly inflammable material within a distance of min. 0,5m

Overhead mounting requires extensive experience, including amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the device. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.



# CAUTION!

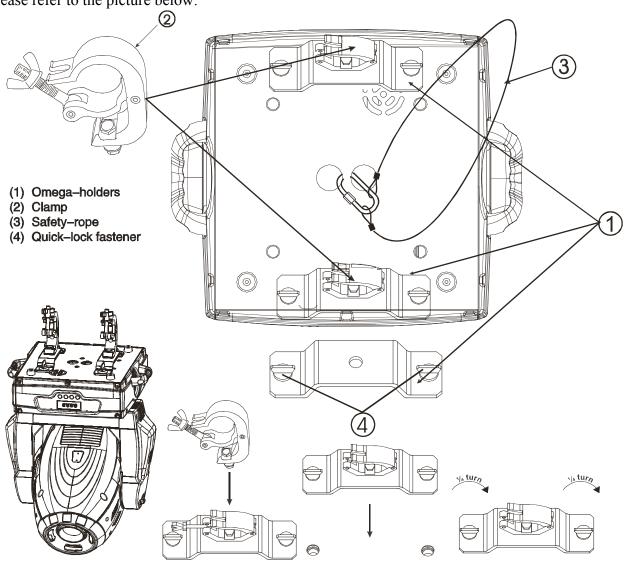
The electric connection must only be carried out by a qualified electric

Before mounting make sure that the installation area can hold a minimum point load of 10 times the device's weight.

Connect the fixture to the mains with the power plug.

# Installation method via clamp

Please refer to the picture below:

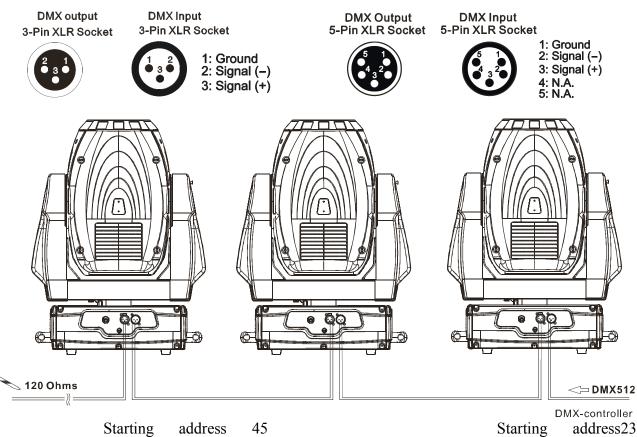


Screw one clamp each via a M12 screw and nut onto the Omega holders.

Insert the quick-lock fasteners of the first Omega holder into the respective holes on the bottom of the device. Tighten the quick-lock fasteners fully clockwise. Install the second Omega holder. Pull the safety-rope through the holes on the bottom of the base and over the trussing system or a safe fixation spot. Insert the end in the carabine and tighten the safety screw.

# **DMX-512** control connection

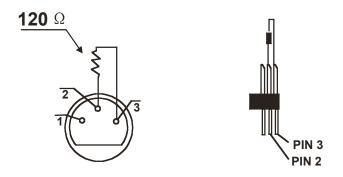
Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.



Starting address 1

# DMX-512 connection with DMX terminator

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 \_ resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.



# Projector DMX starting address selection

All fixtures should be given a DMX starting address when using a DMX signal, so that the correct fixture responds to the correct control signals. This digital starting address is the channel number from which the fixture starts to "listen" to the digital control information sent out from the DMX controller. The allocation of this starting address is achieved by setting the correct number on the

display located on the base of the device.

You can set the same starting address for all fixtures or a group of fixtures, or make different address for each fixture individually.

If you set the same address, all the units will start to "listen" to the same control signal from the same channel number. In other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set a different address, each unit will start to "listen" to the channel number you have set, based on the quantity of control channels of the unit. That means changing the settings of one channel will affect only the selected fixture.

In the case of the moving head, which is 22 channels fixture when you select the standard channel mode, you should set the starting address of the first unit to 1, the second unit to 23(22 + 1), the third unit to 45 (23+22), and so on.

# **Control Board**

The Control Board offers several features: you can simply set the starting address, switch on and off the lamp, run the pre-programmed program or make a reset.

The main menu is accessed by pressing the **Mode/esc**-button until the display starts flashing. Browse through the menu by pressing the **Up**-button or **Down**-button. Press the **Enter**-button in order to select the desired menu. You can change the selection by pressing the **Up**-button or **Down**-button. Confirm every selection by pressing the **Enter**-button. You can leave every mode by pressing the **Mode/esc**-button. The functions provided are described in the following sections.

# To access display Menu via the internal battery, press the UP & DOWN buttons simultaneously. Display will automatically switch off after about 10 seconds from last button press.

	G . D . 11				
	Set Dmx Address		A001~AXXX		DMX address setting
e	Value Display		PAN		DMX value display
Function Mode	Set To Slave		Slave1,Slave2,Slave3		Slave setting
Γu	Auto Program		Master / Alone		Auto program
	Music Control		Master / Alone		Music control
	Time Information	Curren	it Time	XXXX(Hours)	Power on running time
	Total I		Life Hours	XXXX(Hours)	Fixture running time
	Last R		un Hours	XXXX(Hours)	Fixture Last times clear
_	Lamp		Hours	XXXX(Hours)	Lamp running time
Information		Lamp	Off Time	XXXX(Minute)	Lamp off time
rma		Timer	Password	Password=XXX	Timer Password 038
nfo		Clear	Last Run	ON/OFF	Clear Fixture Last time
		L-Tim	er Password	Password=XXX	Lamp Password Code="038"
		Clear	Lamp Time	ON/OFF	Clear lamp time
	Temperature Info	Head	Temperature	XXX°C/1	Temperature in the head
	Software Version	1 Ver1.0			Software version of each IC

Default settings shaded

	Leven On en Off			Lamp on/off			
	Lamp On or Off Automatic La-On	ON/OFF ON/OFF	ON/OFF				
trol							
Lamp Control	Lamp On Via DM		ON/OFF				
) dr	Lamp Off Via DM			Lamp off via DMX			
Lan	Lamp Off No DMX		174 112	Lamp off if no DMX			
	Lamp On at Temp.	20~79°C,45°C /68~		Lamp restart at temp.			
	Lamp Off at Temp.			Lamp off at temp.			
	Status Settings	Address via DMX	ON/OFF	Add. via DMX			
		No DMX Status	Close/Hold/Auto/Music	Auto run if no DMX			
		Pan Reverse	ON/OFF	Pan Reverse movement			
		Tilt Reverse	ON/OFF	Tilt Reverse movement			
		Pan Degree	630/540	Pan Degree Select			
		Feedback	ON/OFF	Movement Feedback switch			
		Movement Speed	Speed $1 \sim 4$	Movement Mode Select			
~		Mic Sensitivity	0~99%	Sensitivity of Mic.			
Personality	Service Setting	Service Password	Password=XXX	Service Code "=050"			
sona		Fan Voltage	High/Low	Fan Voltage Select			
Pers		Gobo Speed	Quick/Slow	Gobo Change Speed			
	Fans Control	Auto Fans Speed		Fans Speed Mode Select			
		High Fans Speed					
		Low Fans Speed					
	Display Setting	Shutoff Time	Display shutoff time				
	Temperature C/F	Celsius	Temperature				
		Fahrenheit		switch between $^{\circ}C/_{1}$			
	Initial Effect	PAN	PAN =XXX	Initial effect position			
	Reset Default	ON/OFF		Restore factory set.			
	Reset All		Reset all motors				
ion	Reset Pan&Tilt		Reset Pan/Tilt				
unction	Reset Colors		Reset color wheel				
	Reset Gobos						
Reset F	Reset Shutter			Reset gobos Reset shutter and/or dimmer			
R	Reset Others			Reset other motors			
	Test Channel	PAN		Test function			
st	Manual Control	PAN	PAN =XXX	Fine adjustment of the lamp			
Effect Adjust			•	i ne acjustitent of the famp			
ct A	Calibrate Values	: Password	• Password=XXX	Calbrate and adjust the			
(ffee	Canorate values			5			
Щ		Color wheel	Color wheel=XXX	e			
		•	•	position Password "050"			

Users Mode Set	User Mode	Standard Mode Basic Mode Extended Mode User Mode A User Mode B User Mode C			User's mode to change channel numbers
Use	Edit User Mode	Max Channel	Max Channel = $XX$	X	Preset User modes
		PAN	PAN = CH01		
		:	:		
	Select Programs	Auto Pro Part 1	Program 1 ~ 10	Program 1	Select programs to be run
		Auto Pro Part 2	Program 1 ~ 10	Program 2	
		Auto Pro Part 3	Program 1 ~ 10	Program 3	
am	Edit Program	Program 1	Program Test	("STEP XX")	Testing program
rogr		:	Step 01=SCxxx		Program in loop
Edit Program		Program 10	Step 64=SCxxx		Save and exit
Edi	Edit Scenes	Edit Scene 001	Pan,Tilt,	Pan=xxx	Save and automatically return
		~ Edit Scene 250	Secne Time	TIME=xx.xs	manual scenes edit
			Input By Outside		
	Rec. Controller	XX~XX			Automat. scenes rec

# **Function Mode**

# DMX address setting

With this function, you can adjust the desired DMX-address via the Control Board.

- Select "Set DMX address" via the encoder.
- Press the encoder, adjust the DMX address by turning the encoder.
- Press the encoder to confirm.
- Press the Mode/Esc-button in order return to the main menu.

# Display the DMX 512 value of each channel

With this function you can display the DMX 512 value of each channel. The display automatically shows the channel with a value changing.

# **Slave setting**

With this function, you can define the device as slave.

# **Auto Program**

With this function, you can run the internal program. You can select the desired program under "Select program". You can set the number of steps under "Edit program". You can edit the individual scenes under "Edit scenes". With this function, you can run the individual scenes either automatically, i.e. with the adjusted Step-Time.

# **Music control**

With this function, you can run the internal program sound-controlled.

# **Information**

# **Time information**

### **Current Time**

With this function, you can display the temporary running time of the device from the last power on. The display shows "XXXX", "XXXX" stands for the number of hours. The counter is resetted after turning the device off.

#### **Total life Hours**

With this function, you can display the running time of the device. The display shows "XXXX", "XXXX" stands for the number of hours.

#### **Last Run Hours**

With this function, you can display last the running time of the lamp. The display shows "XXXX", "XXXX" stands for the number of hours.

#### Lamp Hours

With this function, you can display the running time of the lamp. The display shows "XXXX", "XXXX" stands for the number of hours.

#### Lamp off time

With this function, you can display the temporary running time of the lamp from the last lamp on. The display Shows "XXXX", "XXXX" stands for the number of hours. The counter is resetted after turning the lamp off.

#### **Time Password**

With this function, you can display the timer password. The time password is 038.

#### **Clear Last Run**

With this function, you can clear last run time of the fixture. The display shows "ON" or "OFF", Press "Enter" to confirm.

#### **L-Time Password**

With this function, you can display the timer password. The time password is 038.

#### **Clear lamp time**

With this function you can clear the running time of the lamp. Please clear the lamp time every time you replace the lamp.

- Select "Clear lamp time" by turning the encoder.
- Press the encoder, the display shows "ON" or "OFF".
- Press the encoder to confirm.
- Press the Mode/Esc-button in order to return to the main menu.

#### Temp. Info.

#### Head Temp

With this function you can display the temperature on the display board of the base (near CMY-filter) in Celsius.

### Software version

With this function, you can display the software version of the device.

- Select "Software version" by turning the encoder.
- Press the encoder, the display shows "V-X.X", "X.X" stands for the version number, e.g. "V-1.0", "V-2.6".
- Turn the encoder in order to read the version of every individual IC.
- Press the Mode/Esc-button in order to return to the main menu.

# LAMP CONTROL

When the real temperature around the lamp is higher than the preset value, the lamp will be shut down in 5 minutes automatically.

•When the LCD display shows "Off", it means the lamp must be turned on again manually;

When the LCD display shows "Hot", it means the actual temperature around the lamp is still higher than the preset value, so even the lamp can not be striked even the menu Lamp is turned to ON, as the lamp switch is compelled to turned off.

•When the temperature unit after the temperature value come to lowercase letter "c" or "f", it means menu Lamp is turned to ON, but the lamp is not full dimming up.

When the temperature unit after the temperature value come to capital letter "C" or "F", it menu Lamp is

turned to ON, and the lamp is full intensity.

#### Lamp on/off

With this function you can switch the lamp on or off via the Control Board.

- Select "Lamp on/off" by turning the encoder.
- Press the encoder, the display shows "ON" or "OFF".
- Turn the encoder to select "ON" if you wish to strike the lamp or "OFF" in order to switch it off.
- Press the encoder to confirm.
- Press the Mode/Esc-button in order to return to the main menu.

**Remark:** The menu Lamp On/Off is the software command only, the lamp can be striked successfully only when the menu Lamp is set to ON and the actual temperature is lower than the limited value.

#### Lamp on/off when power on

With this function you can select if the lamp will be switched on when switching the power on. Select "ON" by turning the encoder if you wish to enable this function or "OFF" if you don't.

#### Lamp on via external controller

With this function you can select if you can switch the lamp on via an external controller (DMX-channel of internal programs, value 64-79). Select **"ON"** by turning the encoder if you wish to enable this function or **"OFF"** if you don't.

#### Lamp off via external controller

With this function you can select if you can switch the lamp off via an external controller (DMX-channel of internal programs, value 224-239). Select "**ON**" by turning the encoder if you wish to enable this function or "**OFF**" if you don't.

#### Lamp Off if no DMX

With this function you can select to switch off the lamp off automatically if there is no DMX signal). Select **"OFF"** by turning the encoder if you wish to switch off the lamp automatically at once, Select **"19M"** by turning the encoder if you wish to postpone to 19 minutes switch off the lamp automatically.

#### Lamp on at temp.

With this function you can set the inside temperature from which the projector will restrike the lamp after automatic lamp shut off.

#### Lamp off at temp.

With this function you can set the inside temperature at which the projector will automatically switch the lamp off. Turn the encoder to select the maximum inside temperature between  $60^{\circ}$  C and  $159^{\circ}$  C. Inside temperatures below  $90^{\circ}$  C are not critical.  $90^{\circ}$  C and more should lead to the lamp being switched off. Please note that the outside temperature should not exceed  $45^{\circ}$  C.

When the temperature around the lamp is higher than the preset value continuously up to 5 minutes, the lamp will be shut off automatically.

If the lamp be shut off automatically due to over heat, it can not be striked again automatically, it must be turned on again by manually.

# PERSONALITY

#### Status setting

#### Address via DMX

With this function, you can adjust the desired DMX-address via an external controller.

- Select "Address via DMX" by turning the encoder.
- Press the encoder, the display shows "ON" or "OFF".
- Turn the encoder to select "ON" if you wish to enable this function or "OFF" if you don't.
- Press the encoder to confirm.
- Press the Mode/Esc-button in order to return to the main menu.
- On the controller, set the DMX-value of channel 1 to "7".
- Set the DMX-value of channel 2 to "7" or "8". When set to "7" you can adjust the starting address between 1 and 255.

When set to "8" you can adjust the starting address between 256 and 511.

- Set the DMX-value of channel 3 to the desired starting address. If you want to set the starting address to 57, set channel 1 to "7", channel 2 to "7" and channel 3 to "57". If you want to set the starting address to 420, set channel 1 to "7", channel 2 to "8" and channel 3 to "164" (256+164=420).
- Wait for approx. 20 seconds and the unit will carry out a reset. After that, the new starting address is set.

#### **No DMX Status**

With this function, when the drive is not DMX signal, it runs automatism, close, hold and music, the default is hold.

#### **Pan Reverse**

With this function you can reverse the Pan-movement.

#### **Tilt Reverse**

With this function you can reverse the Tilt-movement.

#### **Pan Degree**

With this function, you can select pan degree for 630 or 540.

#### Feedback

With this function, you can feedback switch of pan movement or tilt movement.

#### **Movement Speed**

With this function, you can select scan mode from 1 to 4.

#### **Mic Sensitivity**

With this function, the default is 70%, you can select the desired microphone sensitivity from 0 % to 99 %.

#### Service setting

#### Service Password

With this function, you can set the service password.

#### Fan Voltage

With this function, you can select fan voltage for high or low, the default is low Attention: The model is not recommended when ambient temperature is higher than 15 Celsius degree.

#### Gobo speed

With this function, you can select GOBO speed for quick or slow, the default is slow.

### **Fans Control**

With this function, you can set the speed of the running fans. The selections have Auto, high and low.

#### **Display settings**

#### Shut off time

With this function you can shut off the LCD display after 2 to 59 minutes. Turn the encoder in order to select the desired shut off time.

#### **Temperature C/F**

With this function, Display the temperature for Celsius or Fahrenheit.

#### Initial effect

With this function, Display initial effect position.

#### **Reset Default**

With this function, you can select restore factory set for ON or OFF, the default is OFF.

# **Reset-functions**

With this function you can reset the device via the Control Board. You can select the different reset functions by turning the encoder.

# Effect Adjust

# Test function of each channel

With this function you can test each channel on its (correct) function.

### Lamp adjustment

With this function, you can adjust the lamp more easily. All effects will be canceled, the shutter opens and the dimmer intensity will be set to 100 %. With the individual functions, you can focus the light on a flat surface (wall) and erform the fine lamp adjustment.

# **Calibrate values**

With this function, you can calibrate and adjust the effect wheels to their correct positions. The password of calibrate values is 050.

# Users mode set

In this menu, user can select different channels list by different sequence:

For example, after the user enter this manual, if select Auto Program = CH 22, means in this User's mode, the "Dimmer" is in Channel 16.

### User mode

With this function, you can create user defined channel orders.

### **Preset User mode**

With this function, you can adjust the rest user defined channel order.

# Edit program

# Select program

With this function, you can select the program for the Program Run.

# Edit program

With this function, you can edit the internal programs.

# **Edit scenes**

With this function, you can edit the scenes of the internal programs.

### Auto scenes rec.

The moving head features an integrated DMX-recorder by which you can transmit the programmed scenes from your DMX-controller to the moving head. Adjust the desired scene numbers via the encoder (from - to). When you call up the scenes at your controller, they will automatically be transmitted to the moving head.

### **Excursion:**

A Master unit can send up to 3 different data groups to the Slave units, i.e. a Master unit can start 3 different Slave units, which run 3 different programs. The Master unit sends the 3 program parts in a continuous loop.



The Slave unit receives data from the Master unit according to the group which the Slave unit was assigned to. If e.g. a Slave unit is set to "Slave 1" in the menu "Set to Slave", the Master unit sends "Auto Program Part 1" to the Slave unit.

If set to "Slave 2", the Slave unit receives "Auto Program Part 2".

To start a Auto Program please proceed as follows:

### 1. Slave-Setting

- Select "Function Mode" by turning the encoder.
- Press the Enter button to confirm.
- Select "Set to slave" by turning the encoder.
- Press the Enter button to confirm.
- Turn the encoder to select "Slave 1", "Slave 2" or "Slave 3".
- Press the Enter button to confirm.
- Press the Mode/Esc button in order to return to the main menu.

### 2. Automatic Program Run

- Select "Function Mode" by turning the encoder.
- Press the Enter button to confirm.
- Select "Auto Program" by turning the encoder.
- Press the Enter button to confirm.

• Turn the encoder to select "Master" or "Alone". The selection "Alone" means Stand Alone-mode and "Master" that the device is defined as master.

- Press the Enter button to confirm.
- Press the Mode/Esc button in order to return to the main menu.

### 3. Program selection for Auto Pro Part

- Select "Edit program" by turning the encoder.
- Press the Enter button to confirm.
- Select "Select programs" by turning the encoder.
- Press the Enter button to confirm.

• Turn the encoder to select "Auto Pro Part 1", "Auto Pro Part 2" or "Auto Pro Part 3", and thus select which Slave program is to be sent. Selection "Part 1" means, that the Slave unit runs the same program as the master units.

- Press the Enter button to confirm.
- Press the Mode/Esc button in order to return to the main menu.

### 4. Program selection for Edit Program

- Select "Edit program" by turning the encoder.
- Press the Enter button to confirm.
- Select "Edit program" by turning the encoder.
- Press the Enter button to confirm.

• Turn the encoder to select the desired program. With this function you can edit specific scenes into a specific program.

- Press the Enter button to confirm.
- Press the Mode/Esc button in order to return to the main menu.

### 5. Automatic Scene Recording

- Select "Edit program" by turning the encoder.
- Press the Enter button to confirm.
- Select "Edit scenes" by turning the encoder.

• Turn the encoder to select the desired scene numbers. You can program a maximum number of 250 • Turn the encoder to select the desired scene numbers. You can program a maximum number of 250 scenes.

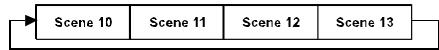
- Press the Enter button to confirm.
- Press the Mode/Esc button in order to return to the main menu.

Example:

Program 2 includes scenes: 10, 11, 12, 13 Program 4 includes scenes: 8, 9, 10 Program 6 includes scenes: 12, 13, 14, 15, 16

Auto Pro Part 1 is Program 2; Auto Pro Part 2 is Program 3; Auto Pro Part 3 is Program 6

The 3 Slave groups run the Auto Program in certain time segments, as shown in the following picture: **Part 1:** 



Part 2:

Scene 8 Scene 9 Scene 10 Scene 8	$\left  \right $
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Part 3:

Scene 12 Scene 13 Scene 14 Scene
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# **INSTRUCTIONS ON USE:**

DMX	DMX channel's functions and their values (33 DMX channels):						
Mo	Mode/Channel		Value	Function			
St	Ba	Ex					
2	2	1		<u>Cyan Color</u> :			
2	2	1	0-255	Cyan (0-white, 255-100% Cyan)			
		2		Cyan Color Fine :			
		2	0-255	Cyan Fine			
3	3	3		Magenta Color :			
3	3	3	0-255	Magenta (0-white, 255-100% magenta)			
		4		Magenta Color Fine :			
		4	0-255	Magenta Fine			
5	5	5		PAN Movement 8bit :			
5	5		0-255	Pan Movement			
6	6	6		<u>TILT Movement 8bit :</u>			
0	0	0	0-255	Tilt Movement			
7	7	7		Speed Pan/Tilt movement:			
			0-225	max to min speed			
			226-235	blackout by movement			
			236-245	blackout by all wheel changing			

			246-255	no function
4	4	0		Yellow Color :
4	4	8	0-255	Yellow (0-white, 255-100% Yellow)
		0		Yellow Color Fine :
		9	0-255	Yellow Fine
				Color Wheel:
			0-13	Open / white
			14-27	Color 1
			28-41	Color 2
			42-55	Color 3
			56-69	Color 4
1	1	10	70-83	Color 5
			84-97	Color 6
			98-111	Color 7
			112-127	Color 8
			128-189	Forwards rainbow effect from fast to slow
			190-193	No rotation
			194-255	Backwards rainbow effect from slow to fast
		11		Color Wheel Fine :
		11	0-255	Color Wheel colour change to any position Fine
				<b>Rotating gobos, cont. rotation:</b>
			0-9	Open
			10-19	Rot. gobo 1
			20-29	Rot. gobo 2
			30-39	Rot. gobo 3
			40-49	Rot. gobo 4
			50-59	Rot. gobo 5
8	8	12	60-69	Rot. gobo 6
			70-89	Gobo 1 shake slow to fast
			90-109	Gobo 2 shake slow to fast
			110-129	Gobo 3 shake slow to fast
			130-149	Gobo 4 shake slow to fast
			150-169	Gobo 5 shake slow to fast
			170-189	Gobo 6 shake slow to fast
			190-255	Rot. gobo wheel cont. rotation slow to fast
9	9	13		<b>Rotating gobo index, rotating gobo rotation :</b>
		[	0-127	Gobo indexing
		[	128-189	Forwards gobo rotation from fast to slow
			190-193	No rotation

			194-255	Backwards gobo rotation from slow to fast
		1.4		Rotating gobo indexing Fine
		14	0-255	Fine indexing
				Fixed Gobos :
			0-13	Open/hole
			14-27	Gobo 1
			28-41	Gobo 2
			42-55	Gobo 3
			56-69	Gobo 4
			70-83	Gobo 5
			84-97	Gobo 6
10	10	15	98-111	Gobo 7
			112-127	Gobo 1 shake slow to fast
			128-143	Gobo 2 shake slow to fast
			144-159	Gobo 3 shake slow to fast
			160-175	Gobo 4 shake slow to fast
			176-191	Gobo 5 shake slow to fast
			192-207	Gobo 6 shake slow to fast
			208-223	Gobo 7 shake slow to fast
			224-255	Gobo wheel rotation from slow to fast
		16		Fixed gobo indexing Fine
		10	0-255	Fixed gobo Fine indexing
11	11	17		<b>Rotating prism, Prism / Gobo macros:</b>
			0-31	Open
			32-63	Rot. prism 1
			64-95	Rot. prism 2
			96-127	Rot. prism 3
			128-135	Macro 1
			136-143	Macro 2
			144-151	Macro 3
			152-159	Macro 4
			160-167	Macro 5
			168-175	Macro 6
			176-183	Macro 7
			184-191	Macro 8
			192-199	Macro 9
			200-207	Macro 10
			208-215	Macro 11
			216-223	Macro 12

			224-231	Macro 13
			232-239	Macro 14
			240-247	Macro 15
			248-255	Macro 16
				Rotating prism, Prism / Gobo macros:
			0-127	Prism indexing
12	12	18	128-189	Forwards prism rotation from fast to slow
			190-193	No rotation
			194-255	Backwards prism rotation from slow to fast
		10		Rotating Prism indexing Fine
		19	0-255	Fine indexing
1.2	10	20		Focus :
13	13	20	0-255	Continuous adjustment from near to far
		21		Focus Fine:
		21	0-255	Continuous adjustment Fine
14	4 14	22		<u>Zoom :</u>
14		22	0-255	Zoom adjustment from small to big
		23		Zoom Fine:
		25	0-255	Zoom adjustment Fine
				Shutter, strobe:
			0-31	Shutter closed
			32-63	No function (shutter open)
			64-95	Strobe effect slow to fast
15	15	24	96-127	No function (shutter open)
			128-159	Pulse-effect in sequences
			160-191	No function (shutter open)
			192-223	Random strobe effect slow to fast
			224-255	No function (shutter open)
16	16	25		Dimmer intensity:
10	10	23	0-255	Intensity 0 to 100%
		26		<u>Fine Dimmer intensity:</u>
		20	0-255	Dimmer intensity fine
				<u>Iris:</u>
17	17	27	0-191	Max. diameter to Min.diameter
1/	1/	21	192-223	Pulse opening fast to slow
			224-255	Pulse closing slow to fast
		28		Iris Fine:
		20	0-255	Iris Fine
18	18	29		Speed Of CMY & Colour macro Speed:
10	10	2)	0-255	Speed Max —>Min

				Colour macros - CMY and colour wheel:
			0-7	OFF
			8-15	Macrol
			16-23	Macro2
			24-31	Macro3
			32-39	Macro4
			40-47	Macro5
			48-55	Macro6
			56-63	Macro7
			64-71	Macro8
			72-79	Macro9
			80-87	Macro10
			88-95	Macro11
			96-103	Macro12
			104-111	Macro13
			112-119	Macro14
19	19	30	120-127	Macro15
			128-135	Macro16
			136-143	Macro17
			144-151	Macro18
			152-159	Macro19
			160-167	Macro20
			168-175	Macro21
			176-183	Macro22
			184-191	Macro23
			192-199	Macro24
			200-207	Macro25
			208-215	Macro26
			216-223	Macro27
			224-231	Macro28
			232-239	Macro29
			240-247	Macro30
			248-255	Random CMY
20	20	31		Lamp on/off, reset, internal programs:
			0-19	colour & gobo change normal
			20-29	colour change to any position
			30-39	colour & gobo change to any position
			40-59	Lamp on
			60-79	Lamp switch off
			80-84	All motor reset

		85-87	Scan motor reset
		88-90	Colors motor reset
		91-93	Gobo motor reset
		94-96	Shutter & Dimmer motor reset
		97-99	Other motor reset
		100-119	Internal program 1 (secne1~8 of EEPROM)
		120-139	Internal program 2 (secne9~16 of EEPROM)
		140-159	Internal program 3 (secne17~24 of EEPROM)
		160-179	Internal program 4 (secne25~32 of EEPROM)
		180-199	Internal program 5 (secne33~40 of EEPROM)
		200-219	Internal program 6 (secne41~48 of EEPROM)
		220-239	Internal program 7 (secne49~56 of EEPROM)
		240-255	Music Control (secne of Program 1)
21	32		Pan Fine 16bit
<i>∠</i> 1	52	0-255	Fine control of Pan movement
22	33		Tilt Fine 16bit
	55	0-255	Fine control of Tilt movement

# **ERROR MESSAGE**

When you turn on the fixture, it will make a reset first. The display may show "XXer" while there are problems with one or more channels. "XX" stands for channel 1, 2, 3,etc who has the testing sensor for positioning.

For example, when the display shows "Cyan color Er", it means there is some error in channel 1. If there are some errors on channel 1, channel 2, channel 5 at the same time, you may see the error message "Color wheel Er", "Cyan color Er", "Pan movement Er" flash repeated for 5 times, and then the fixture will generate a reset signal, all the stepper reset. If the fixture remain error message after performing reset more than 3 times, it will detect whether the fixture has more than 3 errors. If the fixture has more than 3 errors (including 3 errors), all the channels can not work properly; but if the fixture has less than 3 errors, only the channels which have errors can not work properly, others can work as usual.

# Color wheel Er

(Color wheel- error) This message will appear after the reset of the fixture if the magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The color wheel is not located in the default position after the reset.

# PAN- movement Er

(PAN-yoke movement error) This message will appear after the reset of the fixture if the yoke's magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The PAN- movement is not located in the default position after the reset.

# **TILT- movement Er**

(TILT-head movement error) This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The TILT- movement is not located in the default position after the reset.

# Gobo wheel 1 Er

(Gobo wheel 1 - error) This message will appear after the reset of the fixture if the magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The Gobo wheel 1 is not located in the default position after the reset.

# Gobo Rot 1 Er

(Gobo Rot 1- error) This message will appear after the reset of the fixture if the magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The Gobo Rot 1 is not located in the default position after the reset.

# Gobo wheel 2 Er

(Gobo wheel 2 - error) This message will appear after the reset of the fixture if the magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The Gobo wheel 2 is not located in the default position after the reset.

# Prism Er

(Prism-error) This message will appear after the reset of the fixture if the magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The Prism is not located in the default position after the reset.

# Iris Er

(Iris-error) This message will appear after the reset of the fixture if the magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The Iris is not located in the default position after the reset.

# Focus Er

(Focus-error) This message will appear after the reset of the fixture if the magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The Focus is not located in the default position after the reset.

# Zoom Er

(Zoom-error) This message will appear after the reset of the fixture if the magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The Zoom is not located in the default position after the reset.

# **CLEANING AND MAINTENANCE**

The following points have to be considered during the inspection:

1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.

2) There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).

3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.

4) The electric power supply cables must not show any damage, material fatigue or sediments. Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



# CAUTION!

Disconnect from mains before starting maintenance operation.

We recommend a frequent cleaning of the device. Please use a moist, lint- free cloth. Never use alcohol or solvents.

There are no serviceable parts inside the device except for the lamp. Please refer to the instructions under "Installation instructions".

Should you need any spare parts, please order genuine parts from your local dealer. **TECHNICAL SPECIFICATIONS** 

# *Power supply:*

□AC 100V ~, 50Hz;  $\Box$ AC 120V ~, 50Hz;  $\Box$ AC 208V ~, 50Hz;  $\Box$ AC 220V ~, 50Hz;  $\Box AC$ 230V ~, 50Hz;  $\Box$ AC 240V ~, 50Hz; □AC 100V ~, 60Hz;  $\Box$ AC 120V ~, 60Hz;  $\Box$ AC 208V ~, 60Hz;  $\Box$ AC 220V ~, 60Hz;  $\Box AC$ 230V ~, 60Hz;  $\Box$ AC 240V ~, 60Hz; *Power consumption:* max. 400W Lamp: Philips MSR GOLD 300 FASTFIT Packing carton dimensions: 71x45.5x55cm *Flight case dimensions:* 57.5x53x88 cm Net weight: 26.3KGS *Gross weight:* 31.6KGS (carton packing) 57 KGS (flight case packing) *Ballast type:* □ Magnetic ballast; Electronic ballast

*Remark:* errors and omissions for every information given in this manual excepted. All information is subject to change without prior notice.

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