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D F E	
Ρ	
show lighting	

**IDEA SPOT 250** 

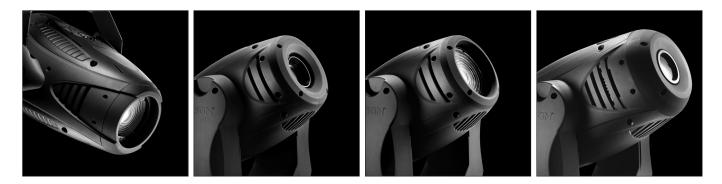
MOVING HEADS



### Vi ringraziamo per aver acquistato un prodotto SGM.

Per ottenere i migliori risultati dal suo utilizzo, vi preghiamo di leggere attentamente questo manuale di istruzioni. Al suo interno troverete le informazioni tecniche e le specifiche d'uso del prodotto. Nelle pagine in appendice troverete inoltre schemi e diagrammi destinati all'assistenza tecnica.

Nell'ottica di qualità SGM, è possibile che l'Azienda apporti migliorie ai suoi prodotti, per cui consigliamo di allegare il manuale al prodotto stesso e di trascrivere il numero di serie nell'ultima pagina della copertina: utilizzando il presente manuale con un apparecchio fabbricato prima o dopo la sua stampa, potrebbero esserci discrepanze fra l'apparecchio e quanto riportato nel manuale stesso.



### Thank you for buying an SGM product.

To obtain the best results, please carefully read this instruction manual in which you will find technical information and specifications for use of the product, as well as diagrams for technical service in the appendix.

In light of SGM quality, the company may make improvements to its products. Therefore, we recommend that the manual be attached to the product and the serial number copied onto the back cover: using this manual with equipment manufactured before or after its printing, might show discrepancies between the equipment and the information listed in the manual.

### Wir danken Ihnen für den Kauf eines Produkts von SGM.

Zur Erzielung der besten Resultate bei der Benutzung bitten wir Sie, die vorliegende Bedienungsanleitung aufmerksam zu lesen. Darin finden Sie die technischen Informationen sowie die Anweisungen für die Benutzung des Produkts. Im Anhang befinden sich auBerdem die Schaltpläne undv Diagramme für den Kundendienst.

SGM behält sich das Recht vor, Verbesserungen an den Produkten vorzunehmen und deshalb empfehlen wir, die Bedienungsanleitung dem Produkt stets beizulegen und die Seriennummer auf der letzten Seite des Umschlags einzutragen. Bei der Verwendung dieses Handbuches mit einem Gerät, das vor oder nach der Drucklegung produziert wurde, können sich Abweichungen zwischen Gerät und dem Inhalt des Handbuches ergeben.

### Nous vous remercions d'avoir acheté un produit SGM.

Pour optimiser son utilisation, nous vous prions de bien vouloir lire attentivement cette notice où vous trouverez les informations techniques et les caractéristiques d'utilisation du produit. En outre, vous trouverez également, dans les pages en appendice, les schémas et les diagrammes concernant l'assistance technique.

Le concept de qualité SGM, lui permet d'améliorer continuellement ses produits et c'est pourquoi nous vous conseillons de joindre la notice au produit et d'inscrire le numéro de sèrie sur la page de couverture. En effet, si on l'utilise avec un appareil fabriqué avant ou après son impression, il peut y avoir des différences entre l'appareil et ce qui figure dans la notice.

### Les estamos sumamente agradecidos por haber elegido un producto SGM.

Para obtener los mejores resultados, les rogamos leer detenidamente el presente manual de instrucciones. El mismo contiene las informaciones técnicas y las indicaciones de uso del producto. Las páginas anexas contienen además los esquemas y diagramas necesarios para la asistencia técnica.

Para mantener la calidad SGM, es posible que la Empresa aporte mejoras sus productos, por ello les aconsejamos conservar el manual junto con el aparato correspondiente y escribir su número de serie en la última página del manual; si en cambio se utiliza el presente manual con un aparato frabicado antes o después de su impresión, es probable que existan discrepancias entre el aparato y las indicaciones del mismo.

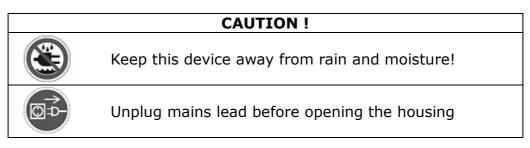
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### **KEEP THIS MANUAL FOR FUTURE NEEDS**

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,
- a power cable,
- an XLR connection cable,
- a pair of Quick-lock omega holders,
- a safety cable,
- 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 MSD250/2
- Control signal : standard DMX-512, 14 channels (16 bit) or 12 channels ( 8 bit)
- Stand alone operation with Master/Slave function, sound activated via built in microphone.
- Pan and tilt movement :
  - 8 bit and 16 bit resolution for smooth and precise motion
  - pan : 630° (optional : 540°) rotation , tilt : 265° rotation
  - speed of pan/tilt movement adjustable
  - scan position memory, auto reposition after unexpected movement
- Focus: electronic focus
- Strobe/shutter : high speed dual-blade shutter, 0-13Hz or random strobe
- Dimmer : mechanical adjust 0%~100%
- Colours:1 color wheel with 8 dichroic mirrors plus white, rainbow effect
- Gobos: 2 gobo wheels
- Rotation gobo wheel: 6 rotating gobos plus open, rotating speed adjustable, and gobo indexing
- Fix gobo wheel: 7 fix gobos plus open, both 2 gobo wheels have different speed gobo shake and rainbow effect
- Prism: 3- face speed adjustable prism rotates in two directions with 16 prism macro effect
- Auto-program: 8 pre-built programs can be selected
- Display: Can be changed 180° reverse to fit for different installation position.
- Local and remote reset and lamp on/off.
- Editable program: Edit and save the program to inside EEPROM via the control board or external controller, up to 48 scenes can be saved and then can be run in Stand Alone or sound activated.

GB

# SAFETY INSTRUCTIONS

## CAUTION



Be careful with your operations. With a dangerous voltage you can 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 disgregard of this user manual are not subject to warrenty. 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.

### CAUTION

Never touch device during operation! The housing may heat up.



Never look directly into the light source, as sensitive persons may suffer an epileptic shock.

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 operation breaks may ensure that the device will serve you for a long time without defects. 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.

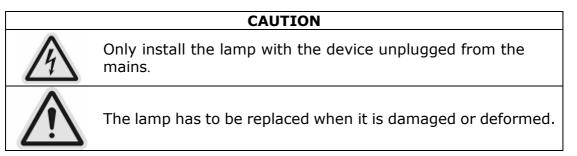
Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation.

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

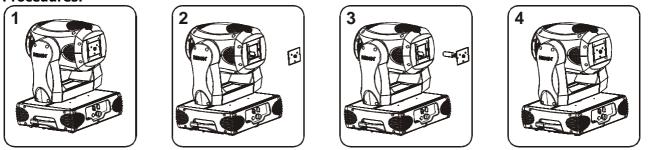


Before replacing the lamp let the lamp cool down, because during operation, the lamp can reach very high temperature.

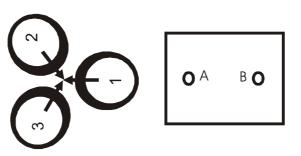
During the installation of the lamps do not touch the glass bulbs bare handed. Always use a cloth to handle the lamps during insertion and removal.

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 MSD 250/2: **Procedures:** 



- 1. Unscrew the 2 screws (A, B) on the bottom of the housing, holding the plate where the lamp is underneath.
- 2. Gently pull the socket holder using the knob in the middle.
- 3. Carefully insert the lamp into the socket. Please remember there is only one way to insert the lamp. Gently slide the lamp and its lamp holder back into place and fasten the 2 screws.
- 4. On the access plate there are 3 small screws marked 1,2 and 3.which are used to adjust the lamp holder in the lamp housing. You can adjust the 3 screws to fine-turn the position of the lamp to get the maximum light output as shown below.



Please remember the lamp is not a hot-restrike type, you must wait for approximately 10 minutes after having turned off the lamp before you can turn it back on again.



Do not operate this device with open cover

### b) Mounting the device

### CAUTION

 $\triangle$ 

Pleas consider the EN 60598-2-17 and the other respective national norms during the installation. The installation must only be carried out by a qualified person.

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 in no highly inflamm able 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.



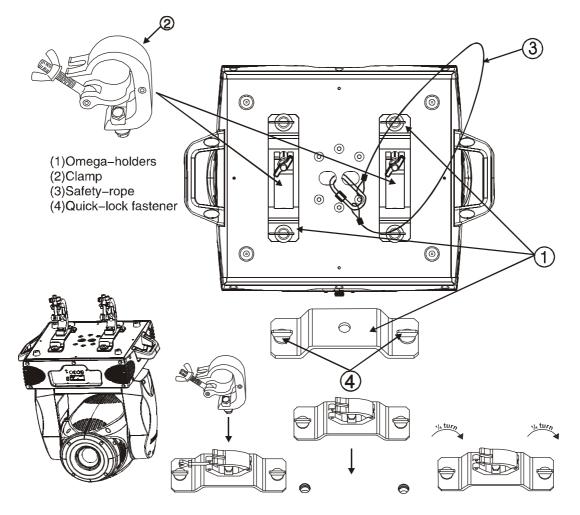
The electric connection must only be carried out by a qualified electrician.

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.

Idea Spot 250

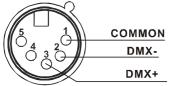


# **DMX-512** control connection

The product has a DMX 512 input fitted with standard 5-pin XLR connectors. Screened cables in compliance with EIA RS-485 specifications and the following characteristics must be used for connections:

- 2 conductors plus screen
- 120 Ohm impedance
- low capacitance
- max. transmission rate 250kBaud.

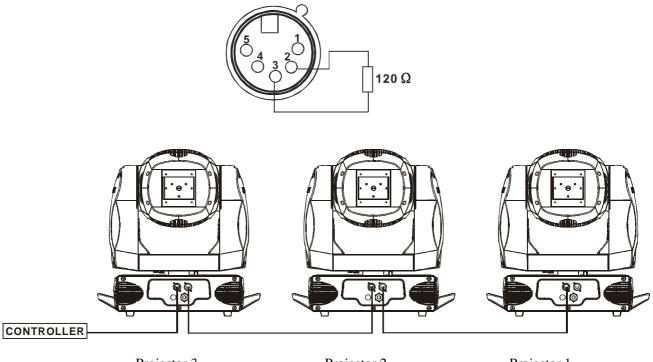
Cable connections:



see illustration, taking care with the screen, which must be connected to Pin 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  $\Omega$  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 3 Starting address 29

Projector 2 Starting address 15

Projector 1 Starting address 1

### 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.

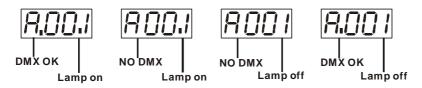
If you set the same address, all the units will start to 'listen" to the same control signal from the same channel number. In other words, changing the settings of one channel will affect all the fixtures simultaneously.

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 product, which is a 14 channel fixture, you should set the starting address of the first unit to 1, the second unit to 15 (14 + 1), the third to 29 (15 + 14), and so on.

### Note:

The modes of DMX 512 data and lamp are shown via the display:



1. After switching on, the device will automatically detect whether DMX 512 data is received or not. If the data is received, the display will show **"A.001"** with the actually set address. If there is no data received at the DMX-input, the display will flash **"A001"** with the actually set address. This situation can occur if:

- the 5 PIN XLR plug (cable with DMX signal from controller) is not connected with the input of the device.
- the controller is switched off or defective, if the cable or connector is defective or the signal wires are swap in the input connector.

It's necessary to insert the XLR termination plug (with 120 Ohm) in the last lighting in the link in order to ensure proper transmission on the DMX data link.

2. If the lamp is on, the display will show "A00.1" with the actually set address. If the lamp is off, the display will show "A001" with the actually set address.

### **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.

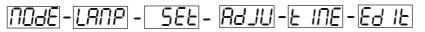
### Default settings shaded.

	Main	Sub.					
	menu	menu	Extension	Display	Function		
			VALU	A001~AXXX (AXXX)	DMX address setting		
		ADDR	SLAV	ON/OFF (SLAV)	Slave setting		
		ADDR	EBOC	ON/OFF	Change DMX address via		
			EBOC		external controller		
				AUTO	ALON (AU-A)	Automatic Run in Stand Alone	
			A010	MAST (AU-M)	Automatic Run as Master		
0	MODE	E RUN	SOUN	ALON (SO-A)	Sound-controlled Run in Stand Alone		
			3001	MAST (SO-M)	Sound-controlled Run as Master		
			VALU	D-XX D-00 (DXXX)	Display the DMX 512 value of each channel		
		DISP	RDIS	ON/OFF	Reverse display		
			CLDI	ON/OFF	Shut off LED display		
		OPEN	ON/OFF		Lamp on/off		
		LAAU	ON/OFF		Lamp automated on with		
1	LAMP				power		
		ONLI	ON/OFF		Lamp on/off via controller		
		DELA	D-XX D-05		Delay lamp on		
		RPAN	ON/OFF		Pan Reverse		
	SET	RTIL	ON/OFF		Tilt Reverse		
		16BI	ON/OFF		Switch 16 bit/8 bit		
		DEGR	630/540		Pan degree select		
		DIMM	Slow/Fast		Dimmer speed		
2		MIC	M-XX		Mic sensitivity		
		AUTO	Clos/Hold/Auto/Audi		No DMX Status		
		FANS	HIGH/AUTO		Fan's mode select		
		SPEE	SP-1/SP-2		Movement Mode Select		
		REST			Reset		
		LODA	ON/OFF		Restore factory settings		
		VER	V-1.0~V-9.9		Software version		
3		LADJ	ON/OFF		Lamp adjustment		
	ADJU WHEL	TEST	T-01~T-30		Test function of each channel		
5		ADJU	ADJU		CODE	CXXX	Fixture code *code is "C050"
			CH01~CH30	XXXX(-128~127)	Motor Calibration		
4	TIME	MATI	0000~9999(hours)		Fixture running time		
		LATI	0000~9999(hours)		Lamp running time		
		CLMT	ON/OFF		Clear fixture time		
		CLLT	ON/OFF		Clear lamp time		
5		STEP	S-01 ~S-48		Steps of Program Run		
		REC.	RE.XX		Auto Save Scene		
	EDIT	SC01	C-01~C-30	0 1 XX(00~FFH) 3 0 XX(00~FFH)	Edit the channels of each scene		
		~ SC48	TIME	<u>T XXX(001~999)</u>	Time for each scene		
			CNIN	ON/OFF	Edit program via controller		

### Note:

By default setting, the lamp is not ignited with power on. Lamp can be turned on via DMX controller.

# Main functions





- 1. Press [MODE/ESC] to enter the main menu "MODE" (display flashing)
- 2. Press [ENTER] and select "ADDR","RUN" or "DISP" by pressing [UP] or [DOWN] button.
- 3. Press [ENTER] for selecting the desired sub menu.



Address setting, Slave setting



### <u> DMX address setting</u>

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

- 1. Select **'VALU''** by pressing **[UP]** or **[DOWN]** button.
- Press [ENTER], the display shows "AXXX", "XXX" stands for the DMX address from 001 to 511. 2.
- Adjust the DMX address by pressing **[UP]** or **[DOWN]** button. 3.
- Press [ENTER] to confirm or pressing [MODE/ESC] to return to main menu. 4.

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

- Select **''SLAV''** by pressing **[UP]** or **[DOWN]** button. Press **[ENTER]**, the display shows **''ON''** or **''OFF''**. 1.
- 2.
- 3. Press [UP] to select "ON" if you wish to enable this function or press [DOWN] to select "OFF" if you don't.
- 4. Press [ENTER] to confirm or press [MODE/ESC] to return to main menu.

# EBDE -DMX address setting via controller

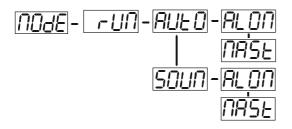
With this function, you can adjust the desired DMX-address via an external controller. This function can only be activated when the DMX-value of all other channels is set to "0" on the controller.

- Select "EBOC" by pressing [UP] or [DOWN].
- Press [ENTER], the display shows "ON" or "OFF".
- Press [UP] to select "ON" if you wish to enable this function or [DOWN] to select "OFF" if you don't.
- Press [MODE/ESC] to confirm.
- Press [ENTER] 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.

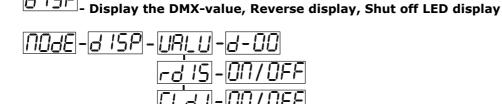


# - UII - Program Run, Master setting

With the function "RUN", you can run the internal program. You can set the number of steps under Step. You can edit the individual scenes under Edit. You can run the individual scenes either automatically (AUTO), i.e. with the adjusted Step-Time or sound-controlled (SOUN). The selection "ALON" means Stand Alone-mode and "MAST" that the device is defined as master.



- Select "AUTO" or "SOUN" by pressing [UP] or [DOWN] button. 1.
- Press [ENTER] for selecting the desired extension menu. 2.
- Select "ALON" or "MAST" by pressing [UP] or [DOWN] button. 3.
- Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu. 4



### <u>[[] II\_ []</u> - Display the DMX 512 value of each channel

With this function you can display the DMX 512 value of each channel.

- Select "VALU" by pressing [UP] or [DOWN] button. 1.
- Press [ENTER] to confirm; the display shows "D-00". In this setting, the DMX-adjustment of every 2. channel will be displayed.
- The display shows "D-XX, "XX" stands for the DMX-value of the selected channel, press [UP] or 3. [DOWN] button in order to select the desired channel. If you select "D-14" the display will only show the DMX-value of the 14th channel.
- 4. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.

<u>ro' 15</u>- Reverse display With this function you can rotate the display by 180°.

- 1. Select "RDIS" by pressing [UP] or [DOWN] button.
- 2. Press [ENTER], the display shows "ON" or "OFF".
- 3. Press [UP] to select "ON" if you wish to enable this function, or press [DOWN] button to "OFF" if you don't; the display will rotate by 180°.
- 4. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.

Ldl- Shut off LED display

With this function you can shut off the LED display after 2 minutes.

- 1. Select "CLDI" by pressing [UP] or [DOWN] button.
- 2. Press [ENTER], the display shows 'ON" or 'OFF".
- 3. Press [UP] to select 'ON' if you wish to enable this function or press [DOWN] button to 'OFF' if you don't.
- 4. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.

LANP - Main menu 1



- 1. Press [MODE/ESC] to enter the main menu (display flashing).
- 2. Press [UP] or [DOWN] button to select "LAMP".

# OPEN-La

LIF CII - Lamp on/off

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

- 1. Select "OPEN" by pressing [UP] or [DOWN] button.
- 2. Press [ENTER], the display shows ''ON" or ''OFF".
- 3. Press **[UP]** to select **''ON''** if you wish to enable this function or press **[DOWN]** button to **''OFF''** if you don't.
- 4. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.

# LARU

## Lamp automated on with power.

With this function you can set the lamp be ignited or not when the fixture is power on.

- 1. Select **''LAAU''** by pressing **[UP]** or **[DOWN]** button.
- 2. Press [ENTER], the display shows "ON" or "OFF".
- 3. Press **[UP]** to select **'ON''** if you wish to enable this function or press **[DOWN]** button to **'OFF''** if you don't.
- 4. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.

# ONL I

# \_<u>li il\_\_il</u>- Lamp on/off via external controller

With this function you can switch the lamp on or off via an external controller.

- 1. Select **'ONLI'** by pressing **[UP]** or **[DOWN]** button.
- 2. Press [ENTER], the display shows 'ON" or 'OFF".
- 3. Press **[UP]** to select **'ON''** if you wish to enable this function or press **[DOWN]** button to **'OFF''** if you don't.
- 4. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.

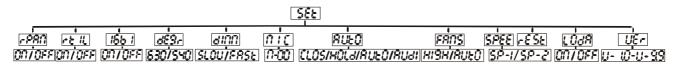
# CELR - Delay lamp on

With this function you can delay the lamp ignition.

- 1. Select **''DELA''** by pressing **[UP]** or **[DOWN]** button.
- 2. Press [ENTER], the display shows "D-XX","XX" stands for the version number, e.g. "D-15" (default setting is 15 minutes for lamp delay time)
- 3. Press [UP] or [DOWN] to set the desired value for lamp delay time.
- 4. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.

# 566 - Main menu 2

- 1. Press [MODE/ESC] to enter the main menu (display flashing).
- 2. Press [UP] or [DOWN] button. to select "SET".





# - PAN - Pan Reverse

With this function you can reverse the Pan-movement.

- 1. Select ''RPAN" by pressing [UP] or [DOWN] button.
- Press [ENTER], the display shows 'ON" or 'OFF". 2.
- 3. Press [UP] to select "ON" if you wish to enable this function or press [DOWN] button to "OFF" if you don't.
- 4. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.

#### re IL - Tilt Reverse

With this function you can reverse the Tilt-movement.

- 1. Select ''RTIL" by pressing [UP] or [DOWN] button.
- 2. Press [ENTER], the display shows "ON" or "OFF".
- 3. Press [UP] to select "ON" if you wish to enable this function or press [DOWN] button to "OFF" if you don't.
- 4. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.

# 156 |- Switch 16 bit/8 bit

With this function you can switch the device from 16 bit to 8 bit resolution.

- 1. Select "16BI" by pressing [UP] or [DOWN] button.
- 2. Press [ENTER], the display shows 'ON" or 'OFF".
- 3. Press [UP] to select "ON" if you wish to enable this function or press "DOWN" button to "OFF" if vou don't.
- 4. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.

# DCJC- Pan degree select

With this function you can select pan angle  $630^{\circ}$  or  $540^{\circ}$ .

- Select "DEGR" by pressing [UP] or [DOWN] button. 1.
- Press [ENTER], the display shows "630" or "540". 2.
- Press [UP] or [DOWN] button to select "630" or "540", the default is 630. 3.
- Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu. 4.

# - Dimmer speed select

With this function you can select dimmer speed "slow" and "fast".

- Select "DIMM" by pressing [UP] or [DOWN] button. 1.
- Press [ENTER], the display shows "SLOW" or "FAST". 2.
- 3. Press [UP] or [DOWN] button to select "SLOW" or "FAST".
- Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu. 4.

#### -Mic sensitivity

With this function you can adjust the sensitivity of the microphone.

- 1. Select "MIC" by pressing [UP] or [DOWN] button.
- 2. Press [ENTER], the display shows "M-XX", "XX" stands for the number from 0 to 99.
- 3. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.

# Automatic Run by no DMX

With this function you can automatic run the device by no DMX.

- 1. Select **''AUTO''** by pressing **[UP]** or **[DOWN]** button.
- 2. Press [ENTER], the display shows "CLOS", "HOLD", "AUTO" or "AUDI".
- 3. Press [UP] or [DOWN] button to select "CLOS", "HOLD", "AUTO" or "AUDI", the default is "HOLD".
- 4. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.

# FRNS

- Fan's mode select

- With this function you can select the Fan's mode.
- Select "FANS" by pressing [UP] or [DOWN] button. 1.
- Press [ENTER], the display shows "HIGH" or "AUTO". 2. 3.
- Select "HIGH" or "AUTO" by pressing **[UP]** or **[DOWN]** button.
- 4. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.

### GB

#### SPEE - Movement mode select

With this function you can select the movement mode.

- Select "SPEE" by pressing **[UP]** or **[DOWN]** button. 1.
- 2. Press [ENTER], the display shows "SP-1" or "SP-2".
- Select "SP-1" or "SP-2" by pressing [UP] or [DOWN] button. 3.
- Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu. 4.

# rESE - Reset

With this function you can Reset the device via the Control Board.

- Select ''REST" by pressing [UP] or [DOWN] button. 1.
- Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu. 2.

LODA- Restore factory settings With this function you can restore the factory settings of the device. All settings will be set back to the

default values (shaded). Any edited scenes will be lost.

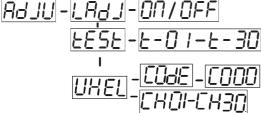
- 1. Select 'LODA" by pressing [UP] or [DOWN] button.
- 2. Press [ENTER], the display shows "ON" or "OFF". 3. Press **[UP]** to select **''ON''** if you wish to enable this function or press **[DOWN]** button to **''OFF''** if you don't.
- 4. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.

UEr - Software version

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

- 1. Select 'VER" by pressing [UP] or [DOWN] button.
- Press [ENTER], the display will show "V-XX", "XX" stands for the version number, e.g. "V-1.0", 2. "V-2.6".
- Press [MODE/ESC] to return to the main menu. 3.





- 1. Press [MODE/ESC] to enter the main menu (display flashing).
- 2. Press [UP] or [DOWN] button to select "ADJU".

Lamp adjustment

With this function you can adjust the lamp via the Control Board. The shutter opens and the lamp can be adjusted. In this mode, the device will not react to any control signal.

- 1. Select "LADJ" by pressing [UP] or [DOWN] button.
- 2. Press [ENTER], the display shows "ON" or "OFF".
- 3. Press [UP] to select 'ON" if you wish to enable this function or press [DOWN] button to select 'OFF' if vou don't.
- 4. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.

# - Test function of each channel

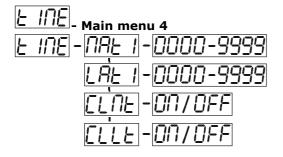
With this function you can test each channel on its (correct) function.

- 1. Select **''TEST''** by pressing **[UP]** button.
- 2. Press [ENTER], the display shows "T-XX", "X" stands for the channel number.
- 3. The current channel will be tested.
- 4. Select the desired channel by pressing [UP] or [DOWN] button.
- 5. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.



# LIHE L - Fixture code and motor fix

- 1. Select "WHEL" by pressing **[UP]** or **[DOWN]** button.
- 2. Press [ENTER], the display shows "CODE" or "CH01-CH30".
- 3. Select "CODE" or "CH01-CH30" by pressing **[UP]** or **[DOWN]** button.
- 4. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.



- 1. Press [MODE/ESC] to enter the main menu (display flashing).
- 2. Press [UP] or [DOWN] button to select 'TIME".

# NAE I

# With this function you can display the supping tin

With this function you can display the running time of the device.

- 1. Select **''MATI''** by pressing **[UP]** or **[DOWN]** button.
- 2. Press [ENTER], the display shows "XXXX", "X" stands for the number of hours.
- 3. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.

# LAL - Lamp running time

With this function you can display the running time of the lamp.

- 1. Select **''LATI''** by pressing **[UP]** button.
- 2. Press [ENTER], the display shows 'XXXX', "X" stands for the number of hours.
- 3. Press [MODE/ESC] to return to the main menu.

#### 

With this function you can clear the running time of the device.

- 1. Select **''CLMT''** by pressing **[UP]** or **[DOWN]** button.
- 2. Press [ENTER], the display shows 'ON" or 'OFF".
- 3. Press **[UP]** to select **''ON''** if you wish to enable this function or press **[DOWN]** button to **''OFF''** if you don't.
- 4. Press **[ENTER]** to confirm or Press **[MODE/ESC]** to return to the main menu.

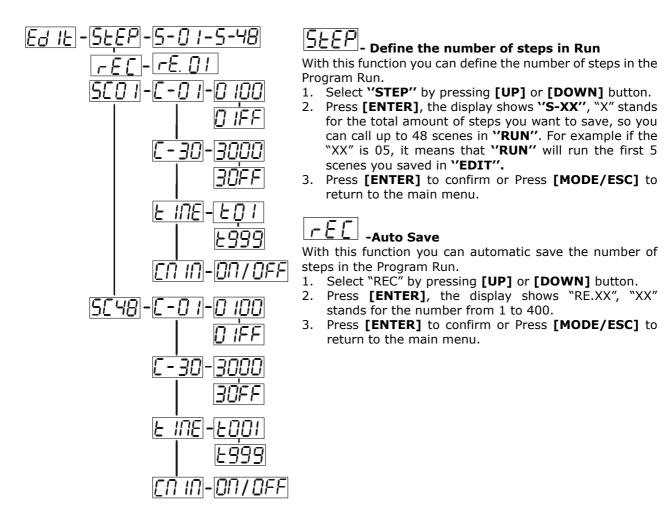
# CLLE - Clear lamp time

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

- 1. Select "CLLT" by pressing [UP] or [DOWN] button.
- 2. Press [ENTER], the display shows 'ON" or 'OFF".
- 3. Press **[UP]** to select **''ON''** if you wish to enable this function or press **[DOWN]** button to **''OFF''** if you don't.
- 4. Press [ENTER] to confirm or Press [MODE/ESC] to return to the main menu.

# Ed IE - Main menu 5

- 1. Press [MODE/ESC] to enter the main menu (display flashing).
- 2. Press [UP] or [DOWN] button to select "EDIT".





With this function you can edit the program to be called up in Run.

### a) Editing via the Control Board

- 1. Select "SC01" by pressing [UP] or [DOWN] button.
- 2. Press [ENTER], the display shows "SCXX", "X" stands for the scene no. to be edited.
- 3. Change the scene no. by pressing [UP] or [DOWN] button.
- 4. Press [ENTER], the display shows "C-X", "X" stands for the channel no. Such as "C-01", it means you are editing channel 1 of the selected scene.
- 5. Select the channel no. you would like to edit by pressing **[UP]** or **[DOWN]** button.
- 6. Press **[ENTER]** to enter editing for the selected channel, the fixture reacts to your settings. The display shows the DMX value of the edited channel. Such as ''11XX", it stands for in the channel 11 of the editing scene, the DMX value is XX , XX is a hexadecimal number value "01-FF".
- 7. Adjust the desired DMX value by pressing [UP] or [DOWN] button.
- 8. Press [ENTER] in order to edit other channels of this scene.
- 9. Repeat steps 5-9 until you finish setting all the DMX values for all channels of this scene.
- 10. Once all the channels completed, the display will flash 'TIME'
- 11. Press [ENTER] to edit the time needed, the display shows "TXXX", "XXX" stands for the time needed to run the current scene, value "001-999". E.g., "002" means you need 0.4ms (002\*0.2ms) to run the current scene.
- 12. Adjust the desired time by pressing **[UP]** or **[DOWN]** button.
- 13. Press [ENTER] to save the settings for the scene you are editing, the display will change to the next scene automatically.
- 14. Repeat step 3-14 to edit and other scenes, you can edit and save a maximum of 48 scenes.
- 15. Press [MODE/ESC] to exit. The number of steps can be defined under 'STEP' and the scenes can be called up under ''RUN''

### b) Editing via the external controller

### Call up the first scene in your controller now.

- 1. Select "SC01" by pressing [UP] or [DOWN] button.
- 2. Press [ENTER], the display shows "SC01".
- 3. Press [ENTER], the display shows "C-01".
- 4. Select "CNIN" by pressing [UP] or [DOWN] button.
- 5. Press [ENTER], the display shows "OFF".
- 6. Press [UP] or [DOWN] button .the display shows "ON".
- 7. Press [ENTER], the display shows "SCO2". You successfully downloaded the first scene.
- 8. Adjust the Step-time as described above under point 12.
- 9. Call up the second scene in your controller now.
- 10. Repeat steps 5-11 until all desired scenes are downloaded.
- 11. Press [MODE/ESC] to exit. The number of steps can be defined under 'STEP' and the scenes can be called up under "RUN"

### **INSTRUCTIONS ON USE:**

### DMX channel's functions and their values (14 DMX channels):

Channel 1 - PAN movement 8bit

Channel 2 – Pan fine 16bit

### Channel 3 - TILT movement 8bit

### Channel 4 – Tilt fine 16bit

### Channel 5 - Speed pan/tilt movement:

- 0-14 max speed
- 15-225 max to min speed
- 226-235 blackout by movement
- 236-245 blackout by all wheel changing
- 246-255 No rotation

#### Channel 6 - Color Wheel :

- 0-13
   Open / white

   14-27
   Color 1

   28-41
   Color 2

   42-55
   Color 3

   56-69
   Color 4

   70-83
   Color 5

   84-97
   Color 6
- 98-111 Color 7
- 112-127 Color 8
- 128-187 Forwards rainbow effect from fast to slow
- 188-193 No rotation
- 194-255 Backwards rainbow effect from slow to fast

### Channel 7 - Rotating gobos, cont. rotation :

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
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
170-189 190-255	Gobo 6 shake slow to fast Rot. gobo wheel cont. rotation slow to fast

### Channel 8 - Shutter, strobe:

- 0-31 Shutter closed
- 32-63 Dimmer control (shutter open)
- 64-95 Strobe effect slow to fast
- 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)

### Channel 9- Dimmer (intensity):

0-255 Intensity 0 to 100%

### Channel 10 - Rotating gobo index, rotating gobo rotation :

- 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

#### Channel 11 - 3 facet rotating prism, Prism / Gobo macros:

- 0-3 open
- 4-63 Forwards rotation from fast to slow
- 64-67 No rotation
- 68-127 Backwards rotation from slow to fast
- 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

### Channel 12 - 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
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

### Channel 13 – Focus:

0-255 Continuous adjustment from far to near

### Channel 14 – Lamp on/off, reset, internal programs:

- 0-19 colour change normal
- 20-39 colour change to any position
- 40-59 Lamp on
- 60-79 Lamp switch off
- 80-99 Motor reset
- 100-119 Internal program 1
- 120-139 Internal program 2
- 140-159 Internal program 3
- 160-179 Internal program 4
- 180-199 Internal program 5
- 200-219 Internal program 6
- 220-239 Internal program 7
- 240-255 Internal program 8



## **ERROR CODES:**

When power is applied, the unit will automatically enter "reset/test" mode. This mode brings all the internal motors to a home position. If there is an internal problem with one or more of the motors an error code will flash in the display in the form of "XXer" were as XX will represent a function number. For example, when the display shows "05Er," it means there is some type of error with the channel 5 motor. If there are multiple errors during the start-up process they will all flash in the display. For example: if the fixtures has errors on channel 5, channel 6, and channel 7 all at the same time, you will see the error message "05Er", "06Er," and "07Er" flash repeated 5 times. If an error does occur during the initial start-up procedure the fixture will self-generate a second reset signal and try to realign all the motors and correct the errors, if the error persist after a second attempt a third attempt will be made. If after a third attempt all the errors have not been corrected the fixture will make the following determinations:

- 1) 3 or more errors The fixture cannot function properly with three or more errors therefore the fixture will place itself in a stand-by mode until subsequent repairs can be made.
- 2) Less than 3 errors The fixture has less than 3 errors, therefore most other functions will work properly. The fixture will attempt to operate normally until the errors can be correct by a technician. The errors in question will remain flashing in the display as a reminder of internal errors.

### 01Er

(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-**yoke is not located in the default position after the reset.

### 03Er

(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-**head is not located in the default position after the reset.

### 06Er

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

### 07Er

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

### 10Er

(Rotating gobo indexing error) This message will appear after the reset of the fixture and if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its driver circuit on the main PCB). The rotating gobo is not located in the default position after the reset.

### 11Er

(3 fact rotating prism error) This message will appear after the reset of the fixture and if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its driver circuit on the main PCB). The 3 fact rotating prism is not located in the default position after the reset.

### 12Er

(Fix Gobos wheel error) This message will appear after the reset of the fixture if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its drive circuit on the main PCB). The fixed gobos wheel is not located in the default position after the reset.

### 13Er

(Focus wheel error) This message will appear after the reset of the fixture and if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its driver circuit on the main PCB). The focus wheel 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.

# *Note:* If the external flexible cable or cord of this device 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.

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 :	-120VAC, 50Hz;	-230VAC,50Hz;
	-120VAC,60Hz;	-230VAC,60Hz;
Power consumption :	max. 400W	
Lamp :	Philips MSD250/2	
Packing dimensions :	61 x 47 x 60cm	
Net weight :	27KG	
Gross weight :	31KG	

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





