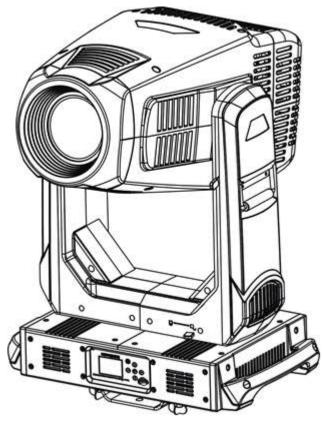
HIGH END SYSTEMS





SolaFrame Theatre

Professional Moving Head User Manual

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Introduction

Congratulations on your purchase of the SolaFrame Theatre automated fixture. This manual provides important information for the safe installation, configuration, and maintenance of your SolaFrame Theatre fixture.

Patents

NOTICE OF INTELLECTUAL PROPER TY R IGHTS

High End Systems, Inc. products are protected by one or more patents listed on the High End Systems, Inc. website: https://www.highend.com/patents and/or are subject to one or more pending patents.

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Terms and Conditions and Warranty Information

Complete terms and conditions and warranty information can be found on the High End Systems, Inc. website: https://www.highend.com/pub/products/HES-Warranty-Information.pdf

Product Modification Warning

High End Systems products are designed and manufactured to meet the requirements of the United States and International safety regulations. Modifications to the product could affect safety and render the product non-compliant to relevant safety standards.

Mise En Garde Contre La Modification Du Produit

Les produits High End Systems sont conçus et fabriqués conformément aux exigences de règlements internationaux de sécurité. Toute modication du produit peut entraîner sa non conformité aux normes de sécurité en vigueur.

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Design und Hestellung von High End Systems entprechen den Anforderungen der U.S. Amerikanischen und internationalen Sicherheithsvorschriften. Abänderungen dieses Produktes können dessen Sicherheit beeinträchtigen und unter Umständen gegen die diesbezüglichen Sicherheitsnormen verstoßen.

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I prodotti di High End Systems sono stati progettati e fabbricati per soddisfare i requisiti delle normative di sicurezza statunitensi ed internazionali. Qualsiasi modifica al prodotto potrebbe pregiudicare la sicurezza e rendere il prodotto non conforme agli standard di sicurezza pertinenti.

Advertencia De Modificatión Del Producto

Los productos de High End Systems están diseñados y fabricados para cumplir los requisitos de las reglamentaciones de seguridad de los Estados Unidos e internacionales. Las modificaciones al producto podrían afectar la seguridad y dejar al producto fuera de conformidad con las normas de seguridad relevantes.

Contacting High End Systems

High End Systems, Inc. is an ETC company.

Headquarters

For Customer Service or Sales support, please contact our company headquarters:

2105 Gracy Farms Lane Austin, TX 78758 USA Tel: 512.836.2242

Fax: 512.837.5290 Toll-free: 800.890.8989 Website: highend.com

Technical Support

If you are having difficulties installing, configuring, or operating your SolaFrame Theatre fixture, your most convenient resources are the references given in this manual. To search more widely, try the High End Systems, Inc. website at highend.com.

24-hour emergency support is available. Contact High End Technical Services at +1 (512) 836-2242.

Declaration of Conformity



Declaration of Conformity

Manufacturer's name: HAO YEANG ELECTRONIC CO., LTD

Manufacturer's address: No. 109, HalYong Road, GuanNanYoung Industry Districe, Shiji Town

Dan'Yu Zone, GuanZhou City, China

Distributor's name: High End Systems, Inc.
Distributor's address: 2105 Gracy Farms Lane

Austin, Texas 78758 USA

Product Name: SOLAFRAME THEATRE

Product Options: Al

We hereby declare that the above referenced product complies with the essential requirements of Council Directives 2014/30/EU (EMC), 2014/35/EU (LVD) and 2011/65/EC (RoHS).

Safety: EN 60598-1: 2015

EN 60598-2-17; 1989 A2: 1991

EN62493 (2015) EN62471 (2008) EN61347-2-13: 2014; EN61347-1: 2015

EN62031: 2008+A1; 2013+A2: 2015

EMC: Emission: EN55015:20013+A1:2015,

EN 61000-3-2 (2014)

EN61547:2009

EN 61000-3-3 (2013)

High End Systems | 2105 Gracy Farms Lane | Austin TX 78758 | higher distant

ROHS:	Restricted Substances	Maximum Concentration Value
		(by weight in homogeneous material)
	Cadmium (Cd)	0.01%
	Lead (PB)	0.1%
	Mercury (Hg)	0.1%
	Hexavalent Chromium (Cr VI)	0.1%
	Polybrominated Biphenyl (PBB)	0.1%
	Polybrominated Diphenyl Ethers (PBDE)	0.1%
Kenneth S. F	tansen	
Hur	with Hansen	
Compliance	Engineer	
July 10 201		
		th End Systems 2105 Gracy Farms Lane : Austin TX 78758 Replaced

FCC Information

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Important Safety Information

Please read all instructions prior to assembling, mounting, and operating this equipment. Continued and safe operation of this fixture is the responsibility of the operator. This manual will give tips for that continued safe operation. At any time please contact High End Systems technical support for any safety concerns.

The following international caution and warning symbols appear in margins throughout this manual to highlight messages.



This symbol appears adjacent to Caution messages. Not heeding these messages could result in personal injury and/or damage to equipment.



This symbol appears adjacent to high voltage warning messages. Not heeding these messages could result in serious personal injury.



This symbol cautions against mounting the fixture on or near a flammable surface.



This symbol indicates that, while operating, equipment surfaces may reach very high temperatures. Allow the fixture to cool before handling.

Safety Considerations



CAUTION: The information in this chapter is intended to assist qualified personnel *only*.



WARNING: Disconnect power before servicing. Replace fuses with the specified type and rating only.

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:

<u>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.</u>

- If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The condensation could cause damage to 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.
- If protection screen, lens or ultraviolet screen in the fixture is apparently damaged or is damaged to exceed their own effective degree, such as cracked and gashed, it must be replaced.
- The electrical connection must carry out by a qualified person.
- Make sure that the available voltage is within stated range.
- Make sure the power cord is never crimped or damaged by a sharp edge. Replace cable immediately if damaged, this work must be done by an authorized dealer.
- Always disconnect from power, 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.
- Don't project the beam onto combustible substances, as this causes a safety hazard.
- Please be aware that damages caused by manual modifications will void warranty.
- 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
- 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. All

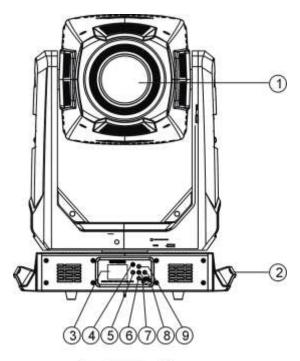
screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.

- There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).
- Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
- 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 administered by a skilled installer and any safety problems have to be removed.

General Guidelines

- This device is a lighting effect for professional use on stages, theaters, or other professional installations, etc., the device was designed for indoor use only.
- This fixture is only allowed to be operated with the max alternating current which stated in the technical specifications printed on the fixture.
- 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.
- While choosing the installation-spot, please make sure that the device is not exposed to extreme
 heat, moisture or dust. Please don't project the beam onto combustible substances. The minimum
 distance between light-output from the projector and the illuminated surface must be more than 0.5
 meter.
- If you use the quick lock cam in hanging up the fixture, please make sure the 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.
- In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

Fixture Overview



- 1) Lens
- 2) Handle
- 3) Display
- 4) Mode/Esc-button
- 5) Left-button
- 6) Down-button
- 7) ENTER-button
- 8) Right-button
- 9) Up-button
- 10) Fuse
- 11) Power out
- 12) Power in
- 13) DMX in
- 14) DMX out
- 15) ART-NET out
- 16) ART-NET in

Features

POWER SUPPLY

- AC 100-240V~, 50/60Hz
- Power Consumption: 700W

OPTICS

- LED: 440W LED
- Extremely long Life: >20,000H

MOVEMENT

- Pan movement: 540° (16 bit)
- Tilt movement: 265° (16 bit)
- Advanced moving system: fast, stable and quite,
- Position recover from minor impact

COLORS

- CMY color mixing, uniform, linear.
- CTO color temperature, uniform, linear.
- 1 Color wheel: 7 dichroic filters + open, indexed, continuous rotation

GOBOS

- 1 Rotation gobo wheel: 7 interchangeable, rotating, and indexed, gobo + open
- "Slot in & out" gobo wheel system.
- Static gobo: 8 indexed static gobos + open. Variable speed gobo shake effect

FEATURES

- Control channel modes: 47 channels
- 2 operations modes: DMX-512, Master / Slave
- Beam angle: zoom from 7.0° -42.0°
- Strobe effect with 1-25 flashes per second and pulse effect
- Prism and rotating prism
- Motorized focus
- Dimmer: 0%~100% (full range dimming.)

- Step-less iris, 5%~100% (linear change iris, pulse iris effect)
- Step-less frost, 0%~100% (linear change frost)
- Animation wheel: "dynamic flame or shimmering water effect"
- PROFILE:4 system framing blades can be shifted and rotated to create cleverly intricate spot effect

INTERACE

- Full color LCD touch screen
- Internal rechargeable battery for modifying settings without power
- Automatic locking to unintentional changes; Activates after 3 second press
- Intuitive fixture reset function: hold and button to activate pan/tilt reset, able to complete reset detection inside flight case

SOFTWARE

- 7 pre-installed programs for selectable playback
- Upgradable: fast and convenient through DMX cable and Uploader (available separately)
- Reset DMX address, remote lamp switch, reset can all be done by the RDM controller
- Running time of fixture on display for reference

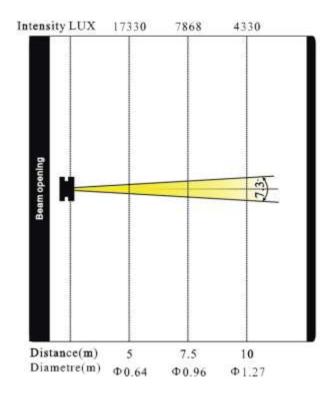
OTHER SPEC

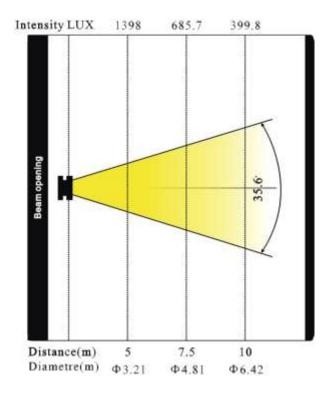
Input signal isolation: allows for stable signal transmission without additional interference Advanced RDM functions

WEIGHT

Net weight: 49.8 kg

Photometric data image



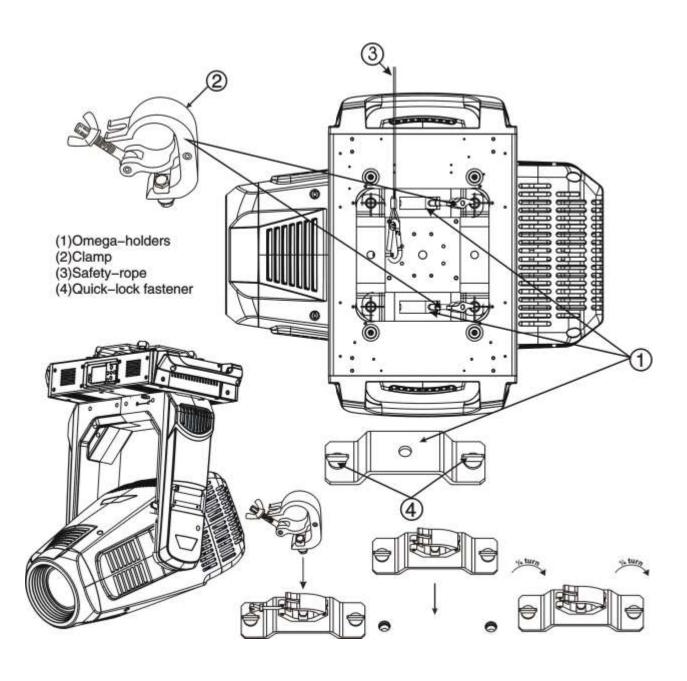


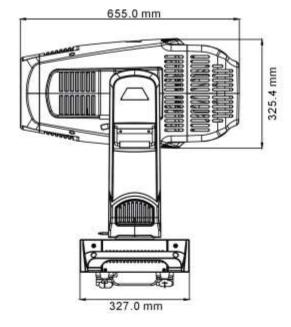
Installation Instructions

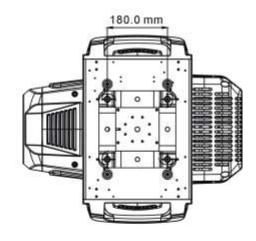
- The installation must always be secured with a secondary safety attachment, e.g. an appropriate safety cable.
- The installation of the fixture has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.
- The applicable temperature for the lighting is between -10°C to 45°C. Do not use the fixture under or above the temperature.
- Never stand directly below the device when mounting, removing or servicing the fixture.
- The operator has to make sure the safety and technical aspects are approved by an expert before using this fixture for the first time.
- These installations must be inspected by a skilled person at least once a year.
- 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 serious bodily injury.

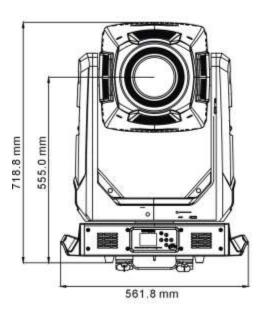
Attachment Instructions

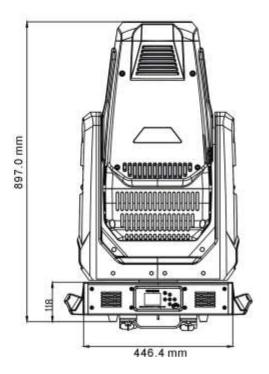
- Attach the Omega clamp on the bracket by tighten the M12 bolt on the bracket to the hole in the middle of the bracket.
- Insert the quick-lock fasteners of the bracket into the respective holes on the bottom of the fixture.
- Tighten the quick-lock fasteners fully clockwise.
- Install the second Omega clamp.
- Attach the safety-cable through the holes on the bottom of the base. Attach to the trussing system or other safe fixation point.
- Be sure the safety is fully looped, the quick-link is attached and fully tighten
- · Inspect for complete attachment before lifting over-head







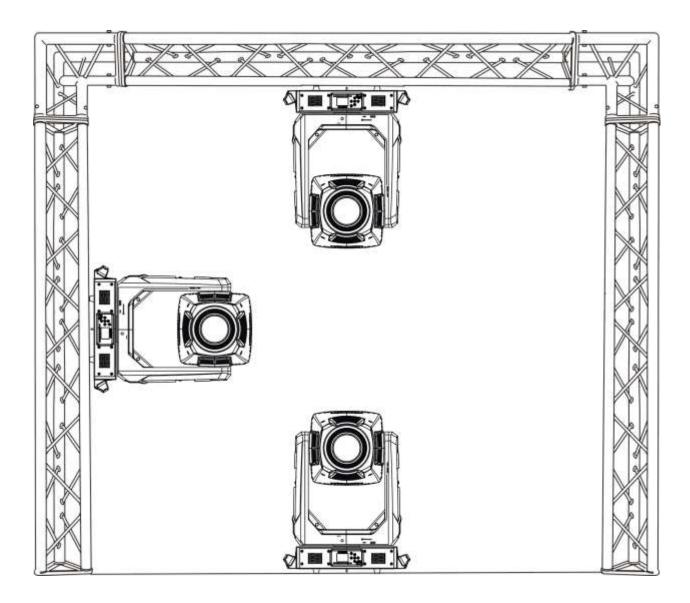




Mounting

Be sure this fixture is kept at least 0.5m away from any flammable materials (decoration etc.). Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

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



Technical Specifications

Power supply: AC 100-240V~, 50/60Hz

• Power consumption: 700W

Flight case dimensions: TBC

Net weight: 49.8 KGS / 109.7LBS

· Gross weight: TBC

Power Specifications

Note: To ensure maximum safety and stability,

When operating on 100V~120V, a maximum of two devices may be linked together in order to not overload power connector specification. For more than 2 devices, the third device must be connected directly to mains power.

When the voltage is over 200V~240V, a maximum of three devices may be connected together in order to not overload power connector specification. For more than 3 devices, the forth device must be connected directly to mains power.

DMX Control

XLR - Connection

Connect the provided XLR cable to the female 5-pin XLR output of your controller and the other side to the male 5-pin XLR input of the moving head. You can chain multiple moving heads 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:

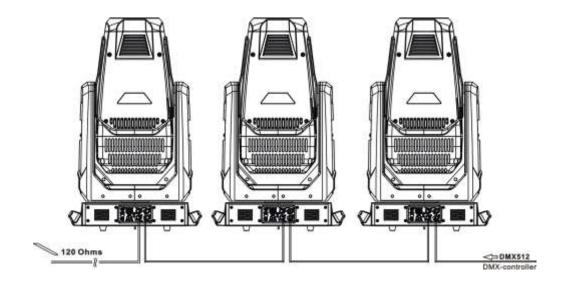
DMX Output

DMX Input 5-Pin XLR Socket 5-Pin XLR Socket





1: Ground 2: Signal (-) 3: Signal (+) 4: N.A. 5: N.A.



Ethernet - Connection

Provided for Art-Net control is an Ethernet port, also provided is an Ethernet "out" port for daisy chaining fixtures.

Note: When power is applied to the fixture, the data traveling is actively regenerated in the fixture, so a fixture-to-fixture limit is set at 100m. When power is not applied, the data is not regenerated, thus cabling length can easily be over 100m leading to data loss at the end of the chain.

Note: An exceedingly larger number of fixtures should not be daisy chained together, as this is scenario is untested and potential issues could arise from propagation delay of the Ethernet data traveling through the fixtures. Testing is commonly completed in groups of 20 fixtures, and no significant issues have been seen.

Ethernet Jack in XLR Style connector



DMX Start Address

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.

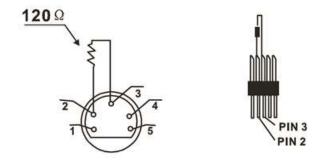
If you set the same address, all the units will start to "listen" to the same control signal from the same channel number. In other words, changing the settings of one channel will affect all the fixtures simultaneously.

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 this LED moving head, which is a 47 channel fixture, you should set the starting address of the first unit to 1, the second unit to 48(47 + 1), the third unit to 95(48+47), and so on.

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 clubs, 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 Ω 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:



Internal Control Board

Menu Layout

This chart displays the layout of the control menu structure. See following section for more information and navigation tips.

Address	A001~AXXX			DMX address setting
	Time Info.	Current Time	XXXX(Hours)	Power on running time
		Ttl Life Hrs	XXXX(Hours)	Fixture running time
		Last Run Hrs	XXXX(Hours)	Clear Fixture Last time
		LED Hours	XXXX(Hours)	LED time
		Timer PIN	Password=XXX	LED Password
		Clr Last Run	ON/OFF	Clear lamp time
		LED Time PIN	Password=XXX	LED Password
		Clear LED Time	ON/OFF	Clear LED time
	Error Info	Pan Coarse		Shows current error
		Tilt Coarse		information
	Value Disp.	ALL,		DMX Control
		Auto Program,		DMX value display
		PAN		
	Head Temp.	XXX°C/°F		Temperature in the head
	Ethernet IP	Ethernet IP		IP information of the
		XXX. XXX. XXX. XXX		control board
		XXX. XXX. XXX. XXX		
Info	Software Ver	Ver X.X.X		Software version of IC

Status No DMX Mode Close Shutter/Hold/ Auto Program/ Music Control	MX
ONVOEE	
Pan Reverse Tilt Reverse Pan Degree Encoders Pan/Tilt Spd Hibernation ON/OFF ON/OFF ON/OFF ON/OFF Speed 1~ 4 OFF, 01M~99M, 15M Reverse pan mone Reverse pan mone Reverse tilt move Pan Degree Sellon/OFF Movement Feed Movement Model Standby Model	vement lect dback
Defog OnOp Defog Off Defog OnPwr Defog OnPwr Defog OnPwr Defog OnOP: To Defogger when above 0% intens Defog OnPwr: To Defogger when is nevered (deformation)	LEDs are sity urn on the fixture
Dimming Mode CMY Curve Standard /Theatrical Linear /Non-Linear Choose Dimmin Choose CMY Curve	off ng Mode
Select Input DMX Only Art-Net On IP2 Art-Net IP02 Art-Net On IP10 Art-Net IP10 sACN SACN	
Set Universe 000-255 Set Art-Net Universe	
Service PIN RDM UID Ethernet IP Ether Mask IP CIr Err Info Service Passwo XXXXXXX XXXX XXX XXX XXX RDM PID Code Ethernet IP XXXX XXX XXX XXX Ethernet IP Ether Mask IP Clear Err inform	
Disp. Setting Shutoff Time Flip Display Key Lock ON/OFF Display shutoff to Display Rev. 180 Key Lock ON/OFF Key Lock	
Temp. C/F Fahrenheit Celsius Temperature sw between °C/°F	ritch
Reset Default ON/OFF Restore factory	set.

	Homo	All		Reset All
	Pan&Tilt			
				Reset Pan & Tilt
		Colors	Reset Colors	
		Gobos		Reset Gobos
		Others		Reset Others
	Test Channel	Test Channel PAN		Test function
	Manual Ctrl. PAN =XXX			Fine adjustment of the lamp
	Calibration	-Password-		Contact Service.
		Pan =XXX		
Test	:			
	Play Back	DMX Control		DMX Control
		Set To Slave	Slave1,Slave2,Slave3	Slave setting
		Auto Program	Master / Alone	Auto program
	Select Prog.	Prog. Part 1 = Program 1 ~ 10 Program 1 Prog. Part 2 = Program 1 ~ 10 Program 2 Prog. Part 3 = Program 1 ~ 10 Program 3		Select programs to be run
	Edit Prog.	Program 1	Program Test	Testing program
		:	Step 01=SCxxx	Program in loop
		Program 10	Step 64=SCxxx	Save and exit
	Edit Scenes	Edit Scene 001	Pan,Tilt,	Save and automatically
		~ Edit Scene	Fade Time	return
		250	Scene Time	manual scenes edit
et			Input By Outside	
Preset	Scenes Input	XX~XX		Automat. scenes rec

Control Board Functions

Address

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

- 1. Access the main menu.
- 2. Tap the <Up/Down> button until "Set DMX Address" is displayed.
- 3. Press ENTER, the display will show "Set DMX Address".
- 4. Tap the <Up/Down> button, the display will show "A001~AXXX"
- 5. Press ENTER to confirm or press <MODE/ESC>to return to the main menu.

Info.

Time Info

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 reset after turning the device off.

- Tap <MODE/ESC> button, access the main menu Tap the <Up/Down> button until "Info" is displayed. Press ENTER, the display will show "Info". Tap the <Up/Down>button until the display will show "Time Info.". Press ENTER, the display will show "Time Info.".
- 2. Press <Up/Down> the display will show "Current Time".
- 3. Press < ENTER> the display will show "Current Time".
- 4. The display will show "XXXX" (Hours);
- 5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Ttl Life Hrs

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

- Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Info" is displayed. Press ENTER, the display will show "Info". Tap the <Up/Down>button until the display will show "Time Info.". Press ENTER, the display will show "Time Info.".
- 2. Press <Up/Down> the display will show "Ttl Life Hrs".
- 3. Press<ENTER> the display will show "Ttl Life Hrs"".
- 4. The display will show "XXXX" (Hours);
- 5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Last Run Hrs

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

- Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Info" is displayed. Press ENTER, the display will show "Info". Tap the <Up/Down>button until the display will show "Time Info.". Press ENTER, the display will show "Time Info.".
- 2. Press <Up/Down> the display will show "Last Run Hrs".
- 3. Press<ENTER> the display will show "Last Run Hrs".
- 4. The display will show "XXXX" (Hours);
- 5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

LED Hour

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

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Info" is displayed. Press< ENTER>, the display will show "Info". Tap the <Up/Down>button until the display will show "Time Info.". Press< ENTER>, the display will show "Time Info.".
- 2. Press <Up/Down> the display will show "LED Hours".
- 3. Press<ENTER> the display will show "LED Hours".
- 4. The display will show "XXXX" (Hours);
- 5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Timer PIN

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

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Info" is displayed. Press ENTER, the display will show "Info". Tap the <Up/Down>button until the display will show "Time Info.". Press ENTER, the display will show "Time Info.".
- 2. Press <Up/Down> the display will show "Timer PIN".
- 3. Press <ENTER> the display will show "Timer PIN", the time password is 038.
- Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Clr Last Run

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

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Info" is displayed. Press< ENTER>, the display will show "Info". Tap the <Up/Down>button until the display will show "Time Info.". Press ENTER, the display will show "Time Info.".
- 2. Press <Up/Down>;, the display will show "Clr Last Run".
- 3. At" L-Timer Password" menu input right password, Press<ENTER>;, the display will show "Clr Last Run".
- 4. The display show "OFF", Press < Up/Down> the display will show "ON".
- 5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

LED Time PIN

Please contact service to for more information, in general LED time should not be modified.

Clear LED Time

Please contact service to for more information, in general LED time should not be reset unless directed by factory rep.

Error Info

With this function you can view error code information

- 1. Tap <MODE/ESC>button, access the main menu
- Tap the <Up/Down>button until, "Info" is displayed. Press ENTER, the display will show Error Info."
- 3. Press <Up/Down>, the display will show "Error Info.".
- 4. Press< ENTER>, the display will show "Error Info.".
- 5. The display will show "XXXX";
- 6. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Value Disp.

DMX Value - NONE

With this function, you can choose the DMX channel.

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Info" is displayed. Press ENTER, the display will show "Info". Tap the <Up/Down>button until the display will show "Value Disp". Press ENTER, the display will show "Value Disp".
- 2. Press <Up/Down> the display will show "NONE".
- 3. Press<ENTER> the display will show "NONE".
- 4. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

DMX Value

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

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Info" is displayed. Press ENTER, the display will show "Info".
- 2. Tap the <Up/Down>button until the display will show "Value Disp". Press ENTER, the display will show "Value Disp".
- 3. Tap the <Up/Down>button until "ALL", "PAN" is displayed.
- 4. Tap the <Up/Down>button, choose each channel.
- 5. Press ENTER to confirm or press <MODE/ESC> to return to the main menu

Ethernet IP

With this function you can choose display the IP address of the fixture.

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Info" is displayed.
- 2. Press ENTER, the display will show "Info".
- 3. Tap the <Up/Down>button until the display will show "Ethernet IP".
- 4. Press ENTER, the display will show "Ethernet IP xxx.xxx.xxx.xxx.xxx.".
- 5. Press ENTER to confirm or press <MODE/ESC> to return to the main menu

Head Temperature

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

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Info" is displayed. Press ENTER, the display will show "Info". Tap the <Up/Down>button until "Head Temp." is displayed. Press ENTER, the display will show "Head Temp.".
- 2. The display show "XXX °C/ °F".
- 3. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Software Version

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

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Info" is displayed. Press ENTER, the display will show "Info".
- 2. Press <Up/Down> the display will show "Software Ver".
- 3. Press<ENTER> the display will show "Software Ver".
- 4. The display show "Ver x.x.x".
- 5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

SET

Status

No DMX Status

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

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "SET" is displayed. Press ENTER, the display will show "SET". Tap the <Up/Down>button until the display will show "Status".
- 2. Press <Up/Down> the display will show "No DMX Status".
- 3. Press<ENTER> the display will show "No DMX Status".
- 4. The display show "Hold", Press < Up/Down> the display will show "Close", "Auto",.
- 5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Pan Reverse

With this function you can reverse the Pan-movement.

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "SET" is displayed. Press ENTER, the display will show "SET". Tap the <Up/Down>button until the display will show "Status".
- 2. Press <Up/Down> the display will show "Pan Reverse".
- 3. Press<ENTER> the display will show "Pan Reverse".
- 4. The display show "OFF", Press < Up/Down>; the display will show "ON".
- 5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Tilt Reverse

With this function you can reverse the Tilt-movement.

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "SET" is displayed. Press ENTER, the display will show "SET". Tap the <Up/Down>button until the display will show "Status".
- 2. Press <Up/Down> the display will show "Tilt Reverse".
- 3. Press<ENTER>the display will show "Tilt Reverse".
- 4. The display show "OFF", Press < Up/Down> the display will show "ON".
- 5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Encoders

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

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "SET" is displayed. Press ENTER, the display will show "SET". Tap the <Up/Down>button until the display will show "Status".
- 2. Press <Up/Down> the display will show " Encoders.".
- 3. Press<ENTER> the display will show "Encoders.".

- 4. The display show "ON", Press <Up/Down> the display will show "OFF".
- 5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Pan/Tilt Speed

With this function, you can change the speed of the Pan Tilt Motion.

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "SET" is displayed. Press ENTER, the display will show "SET". Tap the <Up/Down>button until the display will show "Status".
- 2. Press <Up/Down> the display will show "Pan/Tilt Spd.".
- 3. Press<ENTER> the display will show "Pan/Tilt Spd.".
- 4. The display show will show "Speed 1", ... "Speed 4
- 5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Hibernation —Standby mode

The lamp and step motors will be power off if the fixture stay without DMX signal for 15 mins (Factory default). And the fixture will be reset before working once it receive DMX signal again.

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "SET" is displayed. Press ENTER, the display will show "SET". Tap the <Up/Down>button until the display will show "Status".
- 2. Press <Up/Down> the display will show "Hibernation".
- 3. Press<ENTER> the display will show "Hibernation".
- 4. The display show "15M", Press < Up/Down> the display will show "01M", "02M". "99M" or "OFF".
- 5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Lens Heater

With this function, you can display the Lens Heater settings

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "SET" is displayed. Press ENTER, the display will show "SET". Tap the <Up/Down>button until the display will show "Status".
- 2. Press <Up/Down> the display will show "Defogger".
- 3. Press<ENTER> the display will show "Defogger".
- 4. The display show "Defog OnOp", Press < Up/Down> the display will show "Defog OFF", "Defog Onprw".
- 5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Dimming Mode

With this function, you can change between standard and theatrical dimming mode.

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "SET" is displayed. Press ENTER, the display will show "SET". Tap the <Up/Down>button until the display will show "Status".
- 2. Press <Up/Down> the display will show "Dimming Mode".
- 3. Press<ENTER> the display will show "Dimming Mode".
- 4. The display show "Standard", Press < Up/Down> the display will show "Theatrical"".
- 5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu

CMY Curve

With this function, you change between linear and non-linear operation

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "SET" is displayed. Press ENTER, the display will show "SET". Tap the <Up/Down>button until the display will show "Status".
- 2. Press <Up/Down> the display will show "CMY Curve".
- 3. Press<ENTER> the display will show "CMY Curve".
- 4. The display show "Linear", Press <Up/Down> the display will show "Non-Linear".
- 5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Select Input

With this function, you change between ArtNet on IP2., IP on 10. Or DMX

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "SET" is displayed. Press ENTER, the display will show "SET". Tap the <Up/Down>button until the display will show "Status".
- 2. Press <Up/Down> the display will show "Select Input".
- 3. Press<ENTER> the display will show "Select Input".
- 4. The display show "DMX Only", Press <Up/Down> the display will show "ArtNet on IP2" Press <Up/Down> the display will show "ArtNet on IP10".
- 5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Set Universe

With this function, you change the ArtNet Universe

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "SET" is displayed. Press ENTER, the display will show "SET". Tap the <Up/Down>button until the display will show "Status".
- 2. Press <Up/Down> the display will show "Set Universe".
- 3. Press<ENTER> the display will show "Set Universe".
- 4. The display show "000--255", Press < Up/Down> to select
- 5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Service PIN

Password—The Password for this function is "50".

RDM PID—— With this function you can call up various submenus via RDM.

This device is RDM ready. RDM stands for "remote device management" and makes remote control of devices connected to the DMX-bus. ANSI E1.20-2006 by ESTA specifies the RDM standard as an extension of the DMX512 protocol.

Manual settings like adjusting the DMX starting address are no longer needed. This is especially useful when the device is installed in a remote area.

RDM ready and conventional DMX devices can be operated in one DMX line. The RDM protocol sends own packages in the DMX512 data feed and does not influence conventional devices.

If DMX splitters are used and RDM control is to be used, these splitters must support RDM.

The number and type of RDM parameters depend on the RDM controller being used.

Display Settings

Shut off time

With this function you can shut off the color LCD display after 2 to 60 minutes. Turn the encoder in order to select the desired shut off time. The default is 5 minute.

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Set" is displayed. Press ENTER, the display will show "Set". Tap the <Up/Down>button until the display will show "Disp.Setting". Press ENTER, the display will show "Disp.Setting".
- 2. Press <Up/Down> the display will show "Shutoff Time".
- 3. Press<ENTER> the display will show "Shutoff Time".

Flip Display

With this function you can the entire display to be flipped by 180° to allow for better view when the fixture is hung from truss or a ceiling. This function is disabled as default.

- Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Set" is displayed. Press ENTER, the display will show "Set". Tap the <Up/Down>button until the display will show "Disp.Setting". Press ENTER, the display will show "Disp.Setting".
- 2. Press <Up/Down> the display will show "Flip Display".
- 3. Press<ENTER> the display will show "Flip Display".
- 4. The display show "OFF", Press <Up/Down> the display will show "ON".
- 5. Press <ENTER>; to confirm or press <MODE/ESC>; to return to the main menu.

Key Lock

With this function you can activate the automatic keylock status. If this function is activated, the keys will be locked automatically after exiting the edit mode for 15 seconds. Continue pressing the [MENU] key for 3 seconds if you do not need this function.

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Set" is displayed. Press ENTER, the display will show "Set". Tap the <Up/Down>button until the display will show "Disp.Setting". Press ENTER, the display will show "Disp.Setting".
- 2. Press <Up/Down> the display will show "Key Lock".
- 3. Press< ENTER> the display will show "Key Lock".
- 4. The display show "OFF", Press < Up/Down>;, the display will show "ON".
- 5. Press <ENTER>; to confirm or press &<MODE/ESC>; to return to the main menu.

Temperature C/F

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

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Set" is displayed. Press ENTER, the display will show "Set".
- 2. Press <Up/Down>the display will show "Temp. C/F".
- 3. Press<ENTER> the display will show "Temp. C/F".
- 4. The display show "Celsius", Press <Up/Down> the display will show "Fahrenheit".
- 5. Press <ENTER>; to confirm or press <MODE/ESC>; to return to the main menu.

Reset Default

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

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Personality" is displayed. Press ENTER, the display will show "Personality".
- 2. Press <Up/Down>the display will show "Reset Default".
- 3. Press<ENTER> the display will show "Reset Default".
- 4. The display show "OFF", Press < Up/Down> the display will show "ON".
- 5. Press <ENTER>; to confirm or press <MODE/ESC>; to return to the main menu.

Test

Home

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

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Test" is displayed. Press ENTER, the display will show "Test".
- 2. The display show "Reset All", Press < Up/Down> the display will show "Reset Pan & Tilt".
- 3. Press <ENTER>; to confirm or press <MODE/ESC>; to return to the main menu.

Test channel

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

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Test" is displayed. Press ENTER, the display will show "Test".
- 2. Press <Up/Down> the display will show "Test Channel".
- 3. Press<ENTER> the display will show "Test Channel".
- 4. The display show "Pan Moving" first channel, Press <Up/Down> can choose other channel.
- 5. Press <ENTER>; to confirm or press <MODE/ESC>; to return to the main menu

Manual control

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 perform the fine lamp adjustment.

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Test" is displayed. Press ENTER, the display will show "Test".
- 2. Press <Up/Down> the display will show "Manual Ctrl.".
- 3. Press<ENTER> the display will show "Manual Ctrl.".
- 4. The display show "PAN=XXX".
- 5. Press <ENTER>; to confirm or press <MODE/ESC>; to return to the main menu.

Calibration

Please contact service to for more information, in general this function should not be used unless directed by factory rep.

Preset Programming and Playback

Preset

Play Back

DMX Control

- 1. Tap <MODE/ESC>button, access the main menu Tap the&<Up/Down>button until "Preset" is displayed. Press ENTER, the display will show "Preset". Tap the <Up/Down>button until the display will show "PlayBack". Press ENTER, the display will show "PlayBack".
- 2. Tap the <Up/Down>button until "DMX Control" is displayed.
- 3. Press ENTER, the display will show "DMX Control".
- 4. Tap the <Up/Down>button, choose DMX modes.
- 5. Press ENTER to confirm or press <MODE/ESC> to return to the main menu

Set To Slave

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

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Preset" is displayed. Press ENTER, the display will show "Preset". Tap the <Up/Down>button until the display will show "PlayBack". Press ENTER, the display will show "PlayBack".
- 2. Tap the <Up/Down>button until "Set To Slav" is displayed
- 3. Press ENTER, the display will show "Set To Slav".
- 4. Tap the <Up/Down>button, the display will show "Slave1", "Slave2", "Slave3".
- Press ENTER to confirm or press <MODE/ESC> to return to the main menu.

Auto Program

With this function, you can run the internal program. You can select the desired program under "Select prog.". You can set the number of steps under "Edit prog.". 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.

- 1. Tap <MODE/ESC>button, access the main menu Tap the <Up/Down>button until "Preset" is displayed. Press ENTER, the display will show "Preset". Tap the <Up/Down>button until the display will show "PlayBack". Press ENTER, the display will show "PlayBack".
- 2. Tap the <Up/Down>button until "Auto Program" is displayed.
- 3. Press ENTER, the display will show "Auto Program"
- 4. Tap the <Up/Down> button, the display will show "Master1," "Alone".
- 5. Press ENTER to confirm or press <MODE/ESC> to return to the main menu.

Select programs

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.

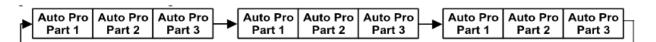
Scenes Input

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.

Example Program

Example:

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 an Auto Program please proceed as follows:

1. Slave-Setting

- a) Select "Function Mode" by turning the encoder.
- b) Press the Enter button to confirm.
- c) Select "Set to slave" by turning the encoder.
- d) Press the Enter button to confirm
- e) Turn the encoder to select "Slave 1", "Slave 2" or "Slave 3"
- f) Press the Enter button to confirm.
- g) Press the MODE/ESC button in order to return to the main menu.

2. Automatic Program Run

- a) Select "Function Mode" by turning the encoder.
- b) Press the Enter button to confirm
- c) Select "Auto Program" by turning the encoder.
- d) Press the Enter button to confirm.
- e) Turn the encoder to select "Master" or "Alone". The selection "Alone" means Stand Alone-mode and "Master" that the device is defined as master.
- f) Press the Enter button to confirm.
- g) Press the MODE/ESC button in order to return to the main menu.

3. Program selection for Auto Pro Part

- a) Select "Edit program" by turning the encoder.
- b) Press the Enter button to confirm
- c) Select "Select programs" by turning the encoder.
- d) Press the Enter button to confirm.
- e) 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.
- f) Press the Enter button to confirm.
- g) Press the MODE/ESC button in order to return to the main menu.

4. Program selection for Edit Program

- a) Select "Edit program" by turning the encoder.
- b) Press the Enter button to confirm.
- c) Select "Edit program" by turning the encoder.
- d) Press the Enter button to confirm.
- e) Turn the encoder to select the desired program. With this function you can edit specific scenes into a specific program.
- f) Press the Enter button to confirm.
- g) Press the MODE/ESC button in order to return to the main menu.

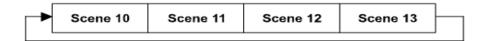
5. Automatic Scene Recording

- a) Select "Edit program" by turning the encoder.
- b) Press the Enter button to confirm.
- c) Select "Edit scenes" by turning the encoder.
- d) Turn the encoder to select the desired scene numbers. You can program a maximum number of 250
- e) Press the Enter button to confirm.
- f) Press the MODE/ESC button in order to return to the main menu.

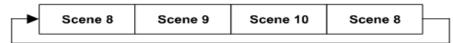
Example:

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



Part 3:



DMX Control Protocol

The most current DMX Control Protocol data for the SolaFrame Theatre can be found on the High End Systems, Inc. website:

https://www.highend.com/documentation/SolaFrame%20Theatre/SolaFrameTheatre-protocol.pdf

Error codes

When you turn on the fixture, the startup routine will check all functions. The display may show the "Err channel is XX" message if there are problems found in one or more channels. "XX" stands for channel 1, 2, 3, 4, 5, 6 who has the testing sensor for positioning. For example, when the display shows "Err channel is Pan Movement", it means there is some error in channel 1. If there multiple errors found, for example on channel 1, channel 3, channel 11, you may see the error message, "Err channel is Pan movement", "Err channel is Tilt movement", "Err channel is Shutter", flash repeated for 2 times, and then the fixture will attempt a homing routine. If the fixture error message remains after performing reset more than 2 times, only the channels which have errors will not work properly, others may work as usual. Please contact with dealer or manufacturer for service.

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 it's 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 it's driving IC on the main PCB). The TILT- movement is not located in the default position after the reset.

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 it's driving IC on the main PCB). The Color Wheel 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 it's 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 it's 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 it's driving IC on the main PCB). The Gobo Wheel 2 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 it's 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 it's driving IC on the main PCB). The Zoom is not located in the default position after the reset.

Animation Er

(Animation - 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 it's driving IC on the main PCB). The Animation is not located in the default position after the reset.

Blade Rot Er

(Blade Rot - 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 it's driving IC on the main PCB). The Blade Rot is not located in the default position after the reset.