

SG ARROW300SP MOVING HEAD

USER MANUAL REL 1,00



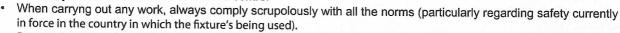
GENERAL INSTRUCTIONS

Read the instruction in this handbook carefully, as they give important information regarding safety during installation, use maintenance

Be sure to keep this function manual with the fixture, in order to consult in the future. If the fixture is sold or given operato, make certain he or she also receives the manual, to be able to read about its operation and follow the relative instructions.



- This unit is not for the home use, only professional applications,
- Afther having removed the packaging, check that the fixture is not damaged in any way and comtact an authorized SAGITTER Tecnichal Service Center.
- Pakaging material (Plastic bags, polystyrene foam, Nails, etc.) must not be left within children can be dangerous.
- This fixture must only be operated by adults. Do not allow children to tamper or play with it.
- Electrical work necessary for installing the fixture must be carried out by a qualified electrician or experienced person.
- Never use the fixture under the following conditions:
 - In places subject to excessive humidity.
 - In places subject to vibtations or bumps.
 - In places with a temperature of ower 45°Cor less than 2°C.
- Protect the fixture from excessive dryness or humidity (Ideal conditions are between 80%).
 - Do not dismantle or modify the fixture.
- Make certain that no inflammable liquids, water or metal objects enter the fixture.
- The minimum distance between the fixture and the surface to be lit must be no less than 1,5mt.
- Should any liquid be spilled on the fixture, disconnect the power supply to the fixture immediately.
- In the event of serious operating problems, stop using the fixture immediately and hither contact the nearest SAGITTER sales point for a check or contact the manufaturee directly.
- Do not open the fxture, there are no user serviceable parts inside.
- Never try to repair the fixture yourself. Repair by unqualified people could cause damage or faulty operation. Contact your nearest authorized service centre.



Do not place the unit on inflammable parts or material.



General warranty conditions

- The unit is guaranteed for 12 months from the date of purchase against manufacturing material defects. Breakdown caused by carelesseness and improper use of the fixture is excluded.
- The guarantee is no longer valid if the unit has been tampered with or repaired by unauthorized personnel Replacement of the fixture is not foreseen by the guarantee.
- External parts, knobs, switches, removable parts are excluded from the guarantee: these are covered by their manufacturers guarantee conditions.
- Transport cost and related risks are borne by the fixture's owner.
 The guarantee is valid to all effects only on presentation of the guarantee certificate to the manufacturer or the nearest Sagitter technical assistance centre.
- Always quote the unit's serial number and model when contacting your reseller for information or assistance.

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MAIN FEATURES

EFFECTS

- Linear zoom and motorised beam Patented
- Fast linear iris
- Linear dimmer (0-100%)
- Shutter / strobe 12 fps with music sync
- CMY system
- Colour wheel with 4 positions + wood + CTO
- Rotating index gobo wheel with 7 positions + white
- 3-face rotating prism
- Frost filter
- Macro

MOVEMENTS

- 540°Pan and 270°Tilt
- 8/16 bit movement resolution
- Automatic re-positioning in the event of accidental head movement
- Possibility of inverting Pan and Tilt movement
- Possibility of limiting Pan and Tilt range
- Variable acceleration and speed parameters

ELECTRONIC BALLAST

- Automatic universal power supply: 90-220V 50/60Hz
- Flicker-free

CONTROL SIGNAL

- Input signal DMX 512
- Channels mode 22/20

MOUNTING SYSTEM

- "Fast-lock" clamps supplied as standard with fixture
- Several clamp mounting points to enable the fixture to be mounted on any type of truss
- Safety chain/cable mounting point

ELECTRICAL SPECIFICATION



DANGER!! CLASS 1 FIXTURE. THIS UNIT MUST BE GROUNDED

POWER REQUIREMENT:

Universal 90-220V 50/60Hz

POWER ABSORBED:

450W

FUSED:

2Pz-8ACT

LAMP SPECIFICATIONS:

Lamp:

MSR 300/2 MINI FASTFIT

Color temperatur: Luminous flux:

8000°k 23000 Lumens

Average life (50%)

750 HR.

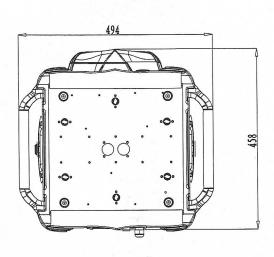


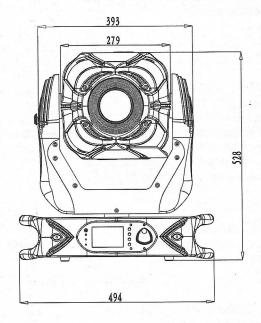
MECHANICAL FEATURES

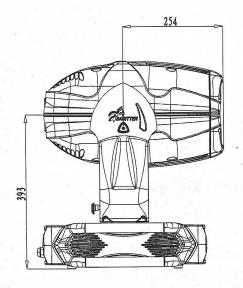
BODY:Structure Iron, Casing in moulded termoplast

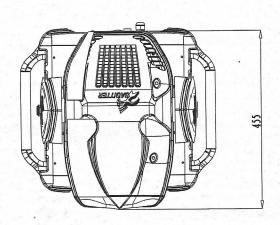
WEIGHT: 36 KG.

DIMENSIONS (MM)







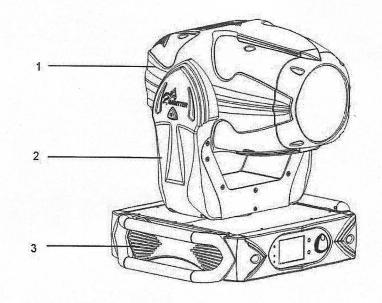


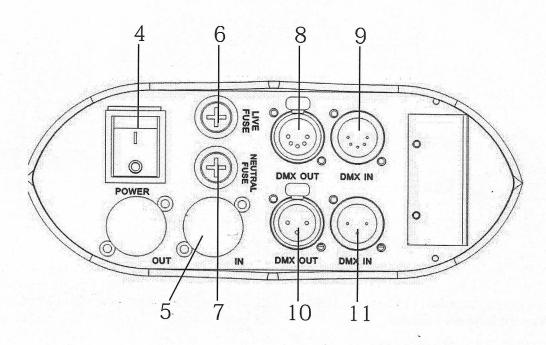


1 INSTALLATION

1.1 Description on device

- 1. HEAD
- 2. ARM
- 3. BASE

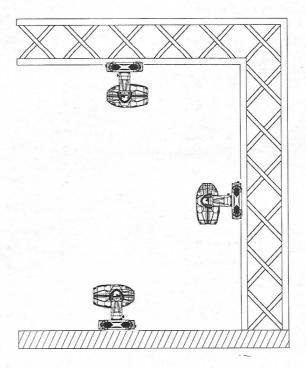




4. POWER SWITCH	8. 5-PIN DMX OUT
5. POWER-IN	9. 5-PIN DMX IN
6. LIVEFUSE	10. 3-PIN DMX OUT
7. NEUTRALFUSE	11. 3-PIN DMX IN

1 INSTALLATION 1.2Mounting

- The ARROW 300SP can by installed in any position.





Pay attention to the regulations of CE

The installation shall be done by qualified staff only

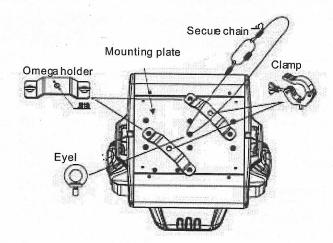
- For the various mounting position of the ARROW 300SP (standing on the floor, sideway or hanging) different accessories kits are available.
- Throug th is a safe installation is assured.
- You will find special connectors on the bottom side of the fixture which are put to use here.
- In addition the front side of the fixture is marked with "FRONt" as this is important for an even orientation during the installation.



1 INSTALLATION

1.3Installing the Clamps

- Please consider the respective national norms during the installation!
- The installation must only be carried out by authorized dealer!
- Alaways use the clamps to hang the fixture.
- Fix the fixture to the support structure using safety chains fitted to the eyeloolt on the underside of the fixture's base.
- Don't fix the safety chains to the handles.
- The fixture should be installed outside areas where persons may walk by or be seated.
- If the fixture shall be lowered form he ceiling or high joists, professional trussing systems have be used. The fixture must never be fixed swinging freely in the room.

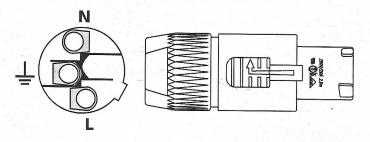


2 CONNECTION

2.1 Power Supply

- The POWER-CON type connector supplyed along with the unit is indispensable for connecting the fixture to the power supply.
- The following design shows how to connect the connector to the cable, whereas the table shows the symbols normally used to indicate connections
- Don't power the fixture with a dimmer circuit.
- The fixture must be connected to a cut-off circuit.

CABLES	PIN	TYPICAL	US	UK
Brown	Phase	"L"	Yellow/Copper	Red
Blue T	Neutral	"M"	Silver	Black
Yellow/Green	Ground	1	Green	Green





DANGER! ELECTRICAL SHOCK HAZARD

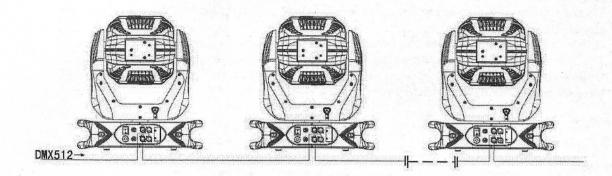
CLASS 1 DEVICE THE FIXTURE MUST BE SUITABLY EARTHED



2 CONNECTION

2.2 DMX Connection

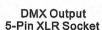
- Only use astereo shielded cable and 3-pin XLR-plugs and connectors in order to connect the controller with fixture or one fixture with another.



2.3 DMX Cable Connection Diagram

DMX output 3-Pin XLR Socket





DMX Input 5-Pin XLR Socket





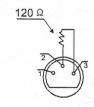






1: Ground 2: Signal (-) 3: Signal (+) 4: N.A. 5: N.A

2.4 DMX Terminator Diagram





- Fo rinstallations where the DMX cable has to $\, un$ a $\, bng$ distance or is in an electrically noisy environment it is recommended to use a DMX terminator. This help in preventing corruption of the signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 $\, \Omega \,$ resistor connected between pins 2 and pins 3, which is then plugged into a the output XLR socket of the last fixture in the chain.



ATTENTION: the screened par ts of the cable (sleeve) must NEVER be connected to the systetem's eath, as this w ould cause faulty fixture and controller operation.



3 DISPLAY CONTROL

3.1 Navigation in the Menu

The Control Board offers several features: you can simply set the starting address, switch on and off the lamp, run the preprogrammed program or make a reset. The main menu is accessed by pressing the Mode-button un til the display starts flashing. Browse through the menu by encoder Press the Enter-button in order to select the desired menu.

You can change the selection by pressing the Enter-button. Confirm every selection by pressing the Enter-button. You can leave every mode by pressing the Mode-button. The functions provided are described in the sections 3.3

3.2 Accesby Internal Battery

The Control Board offdisplay Menu via the internal battery, press the MODE button. Display will automatically switchoff after about 10 seconds from last button press.

3 Display Operation

3.31 Function Mode

Set DMX address

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

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

Value Display

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

Auto Program

With this function, you can run the internal Programs.

Music control

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

3.32 Information

Time information

With this function, you can display the Current Time the Total Run Time the Lamp Run Time and you can clear last run time of the fixture.

Temp. Info

With this function, you can display the temperature of the base and the Head.

Product Info

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

3.33 Lamp Control

With this function, you can display the Current Time the Total Run Time the Lamp Run Time and you can clear last run time of the fixture



Switch Lamp

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

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

Power On Light

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

Light by DMX

With this function you can select if you can switch the lamp on via an external controller (DMX-channel of internal programs, value 60-79). Select "ON" by turning the encoder if you wish to enable this function or "OFF" if you don't.

Lamp on Delay

Lamp on delay to 5~60 minutes.

Switch Lamp Half

Manual control half power switch "ON/OFF".

Lamp Half Time

Half power delay to 10s~200s.

3.34 Personality

Status setting

Address via DMX

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

No DMX Status

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

Pan Reverse

With this function you can reverse the Pan-movement.

Tilt Reverse

With this function you can reverse the Tilt-movement.

Feedback

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

Mic Sensitivity

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

DMX Mode

With this function, you can selec to work with mode 1 or mode 2

Fans Control

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

Language Choose

With this function, you can select the operation language. (Only English available)

Reset Default

With this function, you can set the Reset on or off.

Display settings

With this function you can shut off the LCD display after 2 to 59 minutes.

Turn the encoder in order to select the desired shut off time.

Temperature C/F

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





3.35 Reset Function

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

36 Effect Adjust

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



	Set Dmx Address	A001-AXXX	
	Value Display	PANMoving	
Function Mode		Master	
	Auto Program	Alone	
		OFF	
		Master	
	Music Control	Alone	
		OFF	
* ,		Current time	ON/OFF
	The state	Total Run Time	ON/OFF
	Time Info	Lamp Run Time	ON/OFF
		Clear Fixture Time	ON/OFF
Information	T 1-6-	Base Temp	ON/OFF
	Temp. Info	Head Temp	ON/OFF
		Logo	- Source and consequently
	Product Info	Unit Model. VerXX	1
		Company WEB	
	Switch Lamp	ON/OFF	1
	Power on Light	ON/OFF	
Laws Casterl	Light by DMX	ON/OFF	
Lamp Control	Lamp on Delay	05M	
	Switch Lamp Half	ON/OFF	
	Lamp Half Time	Xxs	
	1	Addr.Via DMX	ON/OFF
			Close
			Hold
		No DMX Status	Auto
			Music
	Status Settings	Pan Reverse	ON/OFF
		Tilt Reverse	ON/OFF
		Feedback	ON/OFF
		Mic Sensitivity	70%,0-99%
Personality	DMX Mode	Mode1/Mode2	1070,00070
		Auto Speed	
	Fans Control	High Speed	
		Low Speed	
	Display Set	Dis Close Time	05M 02 50M
	Temperature C/F		
	Language choose	Celsius/Fahrenhei	
	Reset Defaul t	English	
	Reset All	ON/OFF Reset Pan/Tilt Re	eset Color
Reset Function	Reset Gob o	Reset Pins Reset Else	
	Test Channel	PAN·····xxx	PAN=xxx
	I HELL DOUDOL	1 / 11 1 ////	1 7117 - 777
Effect Adjust	Regulate Value	Password	Password=X





4 DMX Channel

4.1 DMX Map

	Mode2	Name	values (Mode1=22DMX Mode2=20DMX):	
1	1	PAN 8BIT	Function	DMX Value
2	1			0-255
3	2	PAN 16BIT		0-255
	2	TILT 8BIT		0-255
4		TILT 16BIT	may to min opend	0-255
			max to min speed	0-255
5	3	Speed pan/tilt	blackout by movement	226-235
		movement	blackout by all wheel changing	236-245
			no function	246-255
			Open/white	0-17
			Color1	18-35
			Color2	36-53
6	4	Color wheel	Color3	54-71
			Color4	72-89
			Color5	90-107
			Color6	108-127
			Forwards rainbow effect from fast to slow	128-187
			No rotation	188-193
	100		Backwards rainbow effect from slow to fast	194-255
			Open	0-9
			Rot.gobo 1	10-19
			Rot.gobo 2	20-29
			Rot.gobo 2	30-39
			Rot.gobo 4	40-49
			Rot.gobo 5	50-59
			Rot.gobo 6	60-69
		Rotating gobos index,	Rot.gobo 7	70-79
7	5	continue rotation	Gobo 1 shake slow to fast	80-99
		Continue Totation	Gobo 2 shake slow to fast	100-119
			Gobo 3 shake slow to fast	120-139
			Gobo 4 shake slow to fast	140-159
-			Gobo 5 shake slow to fast	160-179
			Gobo 6 shake slow to fast	180-199
			Gobo 7 shake slow to fast	200-219
			Rot.gobo wheel cont. rotation slow to fast	220-255
			Gobo indexing	0-127
8	6	Gobo rotating	Forwards gobo rotation from fast to slow	128-187
0	U	rotating	No rotation	188-193
			Backwards gobo rotation from slow to fast	194-255



			Open	0-9
			Rot.gobo 1	10-19
			Rot.gobo 2	20-29
			Rot.gobo 2	30-39
		Rot.gobo 4	40-49	
		Rot.gobo 5	50-59	
			Rot.gobo 6	60-69
			Rot.gobo 7	70-79
			Rot.gobo 8	80-89
9	7	Rotating gobos index,	Rot.gobo 9	90-99
		continue rotation	Gobo 1 shake slow to fast	100-109
			Gobo 2 shake slow to fast	110-119
			Gobo 3 shake slow to fast	120-129
			Gobo 4 shake slow to fast	130-139
			Gobo 5 shake slow to fast	140-149
			Gobo 6 shake slow to fast	150-159
			Gobo 7 shake slow to fast	160-169
			Gobo 8 shake slow to fast	170-179
			Gobo 9 shake slow to fast	180-189
			Rot.gobo wheel cont. rotation slow to fast	190-255
10	8	Cyan	Cyan(0-whita,255-100% Cyan)	0-255
11	9	Magenta	Magenta(0-whita,255-100% magenta)	0-255
12	10	Yellow	Yellow(0-white,255-100% Yellow)	0-255
13	11	CMY Speed	Speed Fast —>Slow	0-255
			No Function	0-15
			Macro 1	16-31
			Macro 2	32-47
			Macro 3	48-63
			Macro 4	64-79
			Macro 5	80-95
			Macro 6	96-111
		CMY Macros	Macro 7	112-127
			Macro 8	128-143
			Macro 9	144-159
			Macro 10	160-175
			Macro 11	176-191
			Macro 12	192-207
			Macro 13	208-223
			Macro 14	224-239
			Macro 15	240-255
			Backwards rotation with increasing speed	68-127
		3 facet rotating prism, Prism / Gobo macros	Macro 1	128-135
			Macro 2	136-143
15	13		Macro 3	144-151
	.0		Macro 4	152-159
			Macro 5	160-167
			Macro 6	168-175
			Macro 7	176-183



			Macro 8	184-191
			Macro 9	192-199
			Macro 10	200-207
			Macro 11	208-215
			Macro 12	216-223
			Macro 13	224-231
			Macro 14	232-239
			Macro 15	240-247
			Macro 16	248-255
			Frost 0-100%	0-191
16	14	Frost	Pulse opening fast to slow	192-223
		11031	Pulse closing slow to fast	224-254
			Max. Frost	255
			Max. diameter to Min. diameter	0-191
17	15	Iris	Pulse opening fast to slow	192-223
			Pulse closing slow to fast	224-255
18	16	Zoom	Continuous adjustment from Max to Min	0-255
19	17	Focus	Continuous adjustment from near to far	0-255
			Shutter closed	0-31
			No function (shutter open)	32-63
			Strobe effect slow to fast	64-95
20	18	Strobe	No function (shutter open)	96-127
			Pulse-effect in sequences	128-159
		- W.	No function (shutter open)	160-191
			Random strobe effect slow to fast	192-223
			No function (shutter open)	224-255
21	19	Dimmer	Intensity 0 to 100%	0-255
	*		colour change normal	0-19
			colour change to any position	20-39
			No function	40-59
			Lamp switch off	60-79
			All motor reset	80-84
			Scan motor reset	85-87
			Colors motor reset	88-90
			Gobo motor reset	91-93
22	20	Func 、Reset 、	Shutter & Dimmer motor reset	94-96
	20	Lamp switch 、 program	Other motor reset	97-99
			Internal program 1	100-119
			Internal program 2	120-139
			Internal program 3	140-159
			Internal program 4	160-179
			Internal program 5	180-199
			Internal program 6	200-219
			Internal program 7	220-239
		Lamp switch on	240-255	

