

SPECTRUM Starway

Thank you for your trust and interest to our products: **Starway**

1. PRESENTATION

The **SPECTRUM** is equipped about those following functions:

1. Horizontal mirror movement (PAN).
2. Vertical mirror movement (TILT).
3. Gobos wheel: 5 metal gobos + Open. Shutter / strobe at the beginning.
4. Colour wheel: 7 colours + white.

This projector is using 4 channels DMX 512/ 1990 (USITT) standard to work.

2. SAFETY INSTRUCTIONS

Read carefully this user manual before rigging or using your projector.



CAUTION

**Make sure that the device is not exposed to extreme heat, moisture or dust
Always disconnect from the mains, when the device is not in use or before cleaning it.**



Every person involved with installation and maintenance of this device has to:

- Be qualified
- Follow the instructions of this manual

A qualified employee must carry out the electric connection, repairs and servicing

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 packaging material to carrying your projector.

This device has left our premises in absolutely 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 manual.

Important:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device is a scanner projector for creating decorative effects. This product is only allowed to be operated with an alternating current of 230 V, 50 Hz and was designed for indoor use only.

Make sure that the available voltage is not higher than stated on the rear panel.

Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time.

Do not connect this device to a dimmer pack.

Do not switch the fixture on and off in short intervals as this would reduce the lamp's life.

Do not touch the device's housing bare hands during its operation (housing becomes hot)!

For replacement use lamps and fuses of same type and rating only.

If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.

Never run the device without lamp!

The lamp must never be ignited if the objective lens or any housing-cover is open, as discharge lamps may explode and emit a high ultraviolet radiation, which may cause burns (5600 model).



CAUTION!
The lens has to be replaced when it is obviously damaged, so that its function is impaired, e.g. due to cracks or deep scratches!



Please consider that unauthorized modifications on the device are forbidden due to safety reasons!

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 dangers like short-circuit, burns, electric shock, burns due to ultraviolet radiation, lamp explosion, crash etc.

Do not shake the device. Avoid brute force when installing or operating the device.

When 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 and the illuminated surface must be more than 1 meter.

Make sure that the area below the installation place is blocked when rigging, unrigging or servicing the fixture.

Always fix the fixture with an appropriate safety-rope. Fix the safety-rope at the correct holes only.

Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.

Never run the device without lamp!

3. RIGGING INSTRUCTION

Rigging the fixture



Warning!
Use 1 clamp to rig the fixture on the truss.
Make sure that the device is fixed properly! Ensure that the structure (truss) to which you are attaching the fixtures is secure.

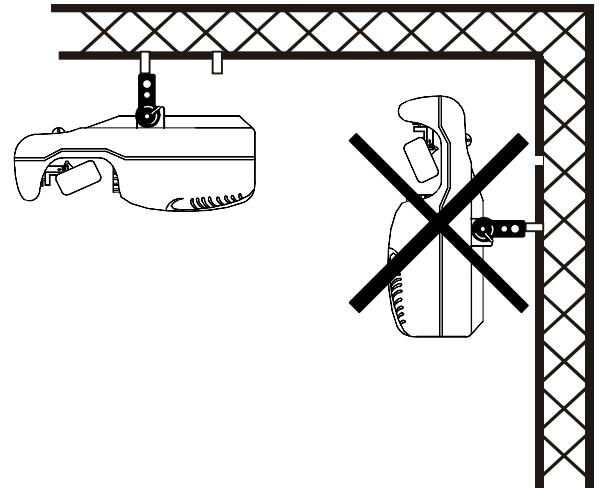
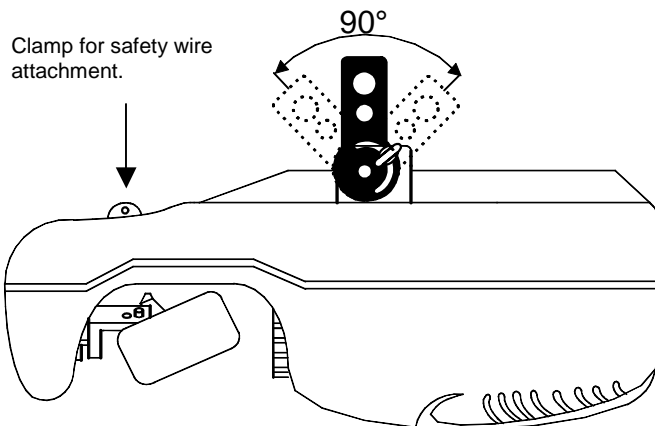


The **SPECTRUM** cannot be placed directly on the Stage floor; it can be only rigged in a horizontal position on a truss without altering its operation characteristics (see the drawing).

The suspension yoke can be adjusted on 90 °

Install a safety wire that can hold at least 10 times

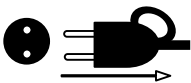
Clamp for safety wire attachment.



Appareil convenant au montage direct sur des surfaces normalement inflammables.
Projector enables to be rigged or fixed in all normal inflammable surfaces.



Lire attentivement ce manuel d'utilisation avant d'utiliser ce projecteur.
Read carefully this manual before using the projector.



Débrancher l'appareil du réseau électrique avant toute manipulation ou intervention.
Switch off remove the power supply cable before any intervention or lamp changing.



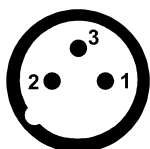
Ce projecteur a été conçu pour une utilisation en intérieur uniquement.
This projector was made for an indoor installation only.



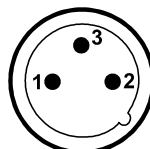
4. DMX Connexion:

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

Sortie DMX
XLR chassis



1-ground
2-signal (-)
3-signal (+)



1-ground
2-signal (-)
3-signal (+)

If you are using the standard DMX-controllers, you can connect the DMX-output of the controller directly with the DMX-input of the first fixture in the DMX-chain. If you wish to connect DMX-controllers with other XLR-outputs, you need to use adapter-cables.

4.1 Building a serial DMX-chain:

Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.

Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120 W resistor between Signal (-) and Signal (+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.

4.2. DMX Dip Switch Addressing



CAUTION

The Spectrum addressing isn't made at the same way as many another DMX projectors; in that case, you must address this projector in Machine number.



To affect an DMX address to one **SPECTRUM** scanner, please see the diagram and remove the micro-switch on the scanner « Dip Switch (1) »



Ex : Addressing in the channel n°13

Affectation DIP SWITCH du Channel DMX 13

5. ADDRESSING DIAGRAM

Address DMX	Number machine	Affectation DIP SWITCH		Address DMX	Number machine	Affectation DIP SWITCH
1	1	00000000		129	33	000001000
5	2	10000000		133	34	100001000
9	3	01000000		137	35	010001000
13	4	11000000		141	36	110001000
17	5	00100000		145	37	001001000
21	6	10100000		149	38	101001000
25	7	01100000		153	39	011001000
29	8	11100000		157	40	111001000
33	9	00010000		161	41	000101000
37	10	10010000		165	42	100101000
41	11	01010000		169	43	010101000
45	12	11010000		173	44	110101000
49	13	00110000		177	45	001101000
53	14	10110000		181	46	101101000
57	15	01110000		185	47	011101000
61	16	11110000		189	48	111101000
65	17	00001000		193	49	000011000
69	18	10001000		197	50	100011000
73	19	01001000		201	51	010011000
77	20	11001000		205	52	110011000
81	21	00101000		209	53	001011000
85	22	10101000		213	54	101011000
89	23	01101000		217	55	011011000
93	24	11101000		221	56	111011000
97	25	00011000		225	57	000111000
101	26	10011000		229	58	100111000
105	27	01011000		233	59	010111000
109	28	11011000		237	60	110111000
113	29	00111000		241	61	001111000
117	30	10111000		245	62	101111000
121	31	01111000		249	63	011111000
125	32	11111000		253	64	111111000
				257	65	00000100