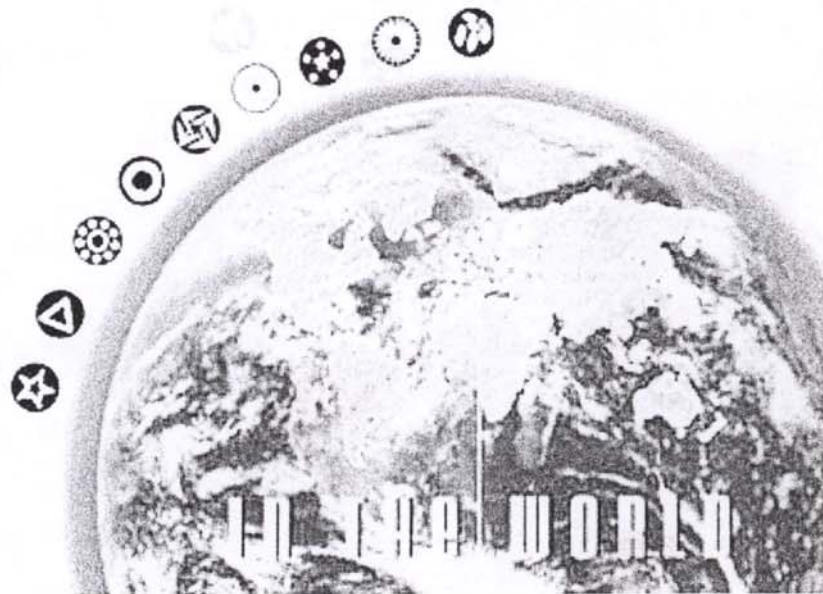
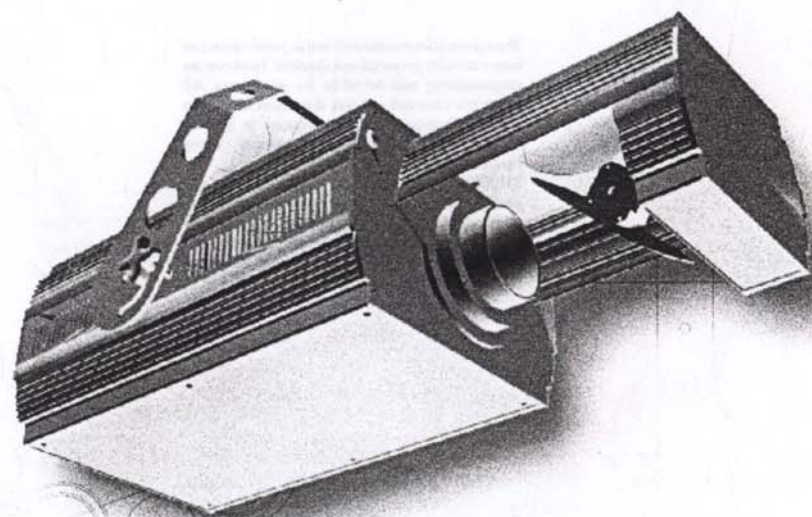




OWER'S MANUAL

VIPER



UNPLACEMENT OF THE FUSE

If the device dose not work controll the fuse that is fixed on the backside of it if the fuse is no good anymore change it with the same type that you find on the device the bravosca 3 has a thermic protection in case of bad function (blocked fans) it automatically switches off to prevent bad damages to it before re switching it on check tat the fans are not burnt, clean and control the device function if the fans do not work contact an authorized technician

PERIODIC CLEANING

For a good function of the device it is best to clean the fans at least every 15 days also clean the lens and dicroic filters so you will have no variation in the luminosity do not use any kind of solvent to clean the mirrors

**Fore safety measurements keep to the following instructions**

- Do not disassemble or modify the device
- Avoid inflammable liquid, water, gas or metal objects from penetrating in the device

Avoid using the device in these following ways

- In places with extreme humidity
- In places with high vibrations, and things that can probably knock against it
- Do not expose it to temperatures higher than 40° C for long periods
- Do not expose it to temperature lower than 0° C
- Protect the device from very dry or humid places (under 35% and over 80%)

Attentions

In case of bad functional problems immediately switch of the device and contact the nearest dealer ore directly the producer of the device SHOW TEC

Warnings

Avoid opening the device there are no parts reparable by the purchaser eventual fixings have to strictly be done by professional qualified techniques

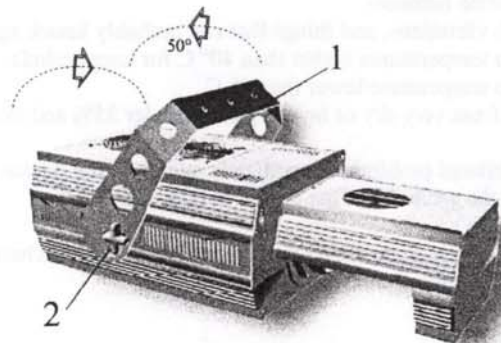
Technical features

- POWER SUPPLY: 220-240 V 50 Hz or 120V 60Hz
- POWER CONSUMPTION : 800 VA in built factor correction
- LAMP: HMI 575 W discharge lamp
- CONTROL: 8 or 10channels DMX 512
- PAN and TILT 8 or 16 bit
- DIMMER + evanescence (opening and closing) 4 different speeds.
- STROBE Effect (max: 16 flash/sec) + strobe at a random speed
- COLORS: 8 dichroic filters with high chromatic yield + wood filter + white. It is possible to have colors in black-out and half color 3 speed continuous color wheel rotation to produce Rainbow effect
- GOBOS: wheel with 7 rotating gobos (replaceables)+ open
- ROTOGOBO: 15 speed on the left, 15 speed on the right
- Effect Wheel : Frost + Prism with 3 sides, Rotoprism with different speed to rightor to left
- MOTORS: 7 microstepper motors +2 c.c. motors controlled via internal microprocessor
- Mirror head: with several angle-shot
- Optical system: perfect efficiency parabolic mirror, high definition interchangeable objective lens
- Extruded aluminium
- Working position : any position
- DIMENSIONS: 700mm L x 250mm H x 200mm W
- WEIGHT: Kg 24

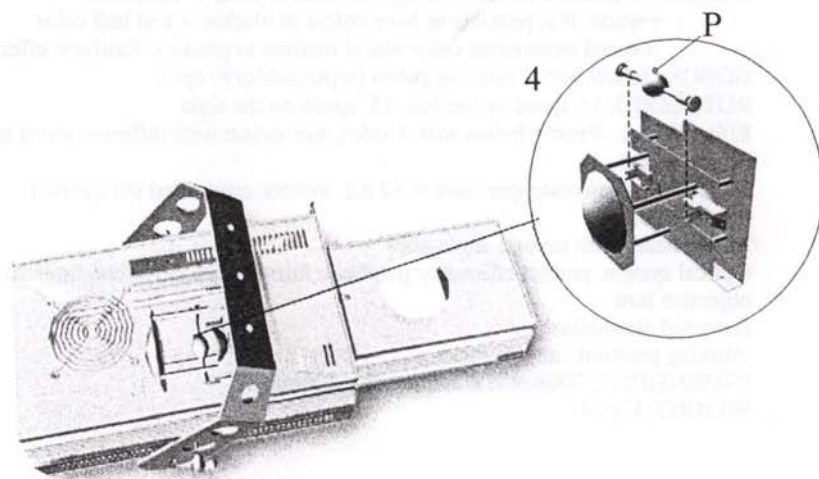
INSTALLATION OF THE DEVICE

Fix the device with the bracket (1) using at least two screws m10 be sure that the structure can support the weight of 18 kg.

The device can rotate in the axe of the bracket at $\pm 50^\circ$ positioning it with the two-ball grips (2)

**LAMP ASSEMBLING**

Open the front wicket door on the front part of the device unscrew the two ball grips and open pulling upwards. I the hmi 575/gs (SCANNER 575 pf 3026) in position (4) and tighten the screw on the metal ring of the lamp. To get a high luminosity yield it is important to use a god quality lamp. Position the protuberance (p) upwards. I the hmi 575/gs lamps are high precision lamps. We recommend you to read the instructions of your lamp

**FUNCTIONAL ANOMALIES****PROBLEMS**

The device does not switch on
backside of the device

The electronics does not work
configuration on the device

The devise on intermit turns on and of

Projection of rays of light with halo

Luminosity reduction

POSSIBLE SOLUTIONS

Control the fuse on the

Control the exact

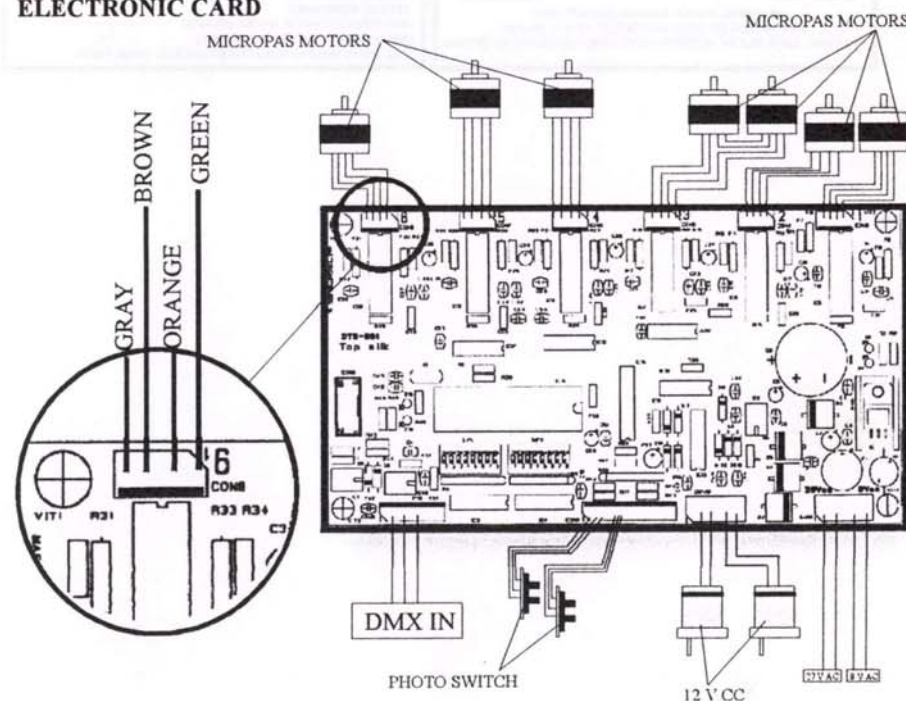
Control the function of the fan

Control that the lamp has been
put in the Right position
Control the focus deriv

Exhausted lamp

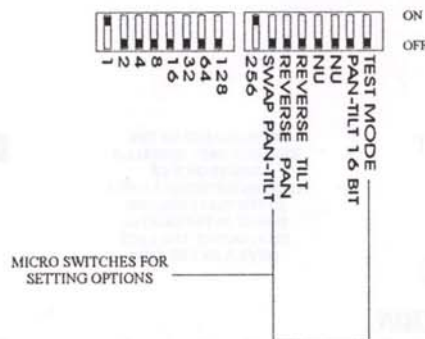
Control that the lens are clean

For any other types of problems we strictly reccomend that a professional qualified techniques is contacted

ELECTRONIC CARD

OPTIONS

The SCANNER has 5 options, which can be activated with the second group of micro switches of the setting section on the back panel

**SWAP**

The micro switches indicated as swp pan-tilt if activated permit you to invert the pan and its tilt functions

REVERSES PAN REVERSES TILT

The micro switches indicated as reverses pan and reverses tilt if activated they permit horizontal movements (pan) and vertical movements (tilt) of the mirrors that can be reversed. This can be useful in some installation for example where the device are put two opposite sides of the room, setting on one device the micro switch of reverses pan in position on the mirror will let the pan work in the same direction, with the same control signal.

SHUTTER ON THE COLOR CHANGER

The micro switch indicated as shutter on color change if activated makes the change of color in blackout

PAN TILT 16 BIT

The microswitch is indicated as pan - tilt 16 bit. If you turn it on, you activate the high resolution modality (16 bit) on pan and tilt. So that the channels become 10.

TESTMODE

The micro switch indicated as TEST MODE if activated makes the scanner control all the programs in function

SEQUENCES OF THE DMX CHANNEL:

CHANNEL	FUNCTION
1	ROTO GOBOS
2	COLOR
3	ROTATING GOBO WHEEL
4	DIMMER STROBO EVANESCENZA
5	PAN
6	TILT
7	WHELL EFFECT FROST-PRISMA
8	ROTO PRISMA

Channel DMX	N°1	ROTOGOBO			
DMX rage Value(1)	Mid point DMX value(1)	Move rage (gradi)	Mode(2)	Option(3)	Function
0-117	58				ANTI-CLOCKWISE ROT
118-137	128				STOP
138-255	196				CLOCKWISE ROT

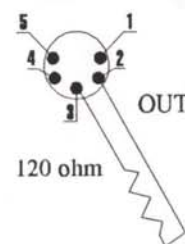
Channel DMX	N°2	RUOTA COLOR			
DMX rage Value(1)	Mid point DMX value(1)	Move rage (gradi)	Mode(2)	Option(3)	Function
0-4	2	0	S		COLOR 1
5-9	7	18	S		BICOLOR 1/2
10-14	12	18	S		COLOR 2
15-19	17	18	S		BICOLOR 2/3
20-24	22	18	S		COLOR 3
25-29	27	18	S		BICOLOR 3/4
30-34	32	18	S		COLOR 4
35-39	37	18	S		BICOLOR 4/5
40-44	42	18	S		COLOR 5
45-49	47	18	S		BICOLOR 5/6
50-54	52	18	S		COLOR 6
55-59	57	18	S		BICOLOR 6/7
60-64	62	18	S		COLOR 7
65-69	67	18	S		BICOLOR 7/8
70-74	72	18	S		COLOR 8
75-79	77	18	S		BICOLOR 8/9
80-84	82	18	S		COLOR 9
85-89	87	18	S		BICOLOR 9/10
90-94	92	18	S		COLOR 10
95-99	97	18	S		BICOLOR 10/1
100-104	102	0	S		COLOR 1
105-109	107	18	S		BICOLOR 1/2

110-114	112	18	S	COLOR 2
115-119	117	18	S	BICOLOR 2/3
120-124	122	18	S	COLOR 3
125-129	127	18	S	BICOLOR 3/4
130-134	132	18	S	COLOR 4
135-139	137	18	S	BICOLOR 4/5
140-144	142	18	S	COLOR 5
145-149	147	18	S	BICOLOR 5/6
150-154	152	18	S	COLOR 6
155-159	157	18	S	BICOLOR 6/7
160-164	162	18	S	COLOR 7
165-169	167	18	S	BICOLOR 7/8
170-174	172	18	S	COLOR 8
175-179	177	18	S	BICOLOR 8/9
180-184	182	18	S	COLOR 9
185-189	187	18	S	BICOLOR 9/10
190-194	192	18	S	COLOR 10
195-199	197	18	S	BICOLOR 10/1
200-207	179	-----	C	ROT.SPEED 1mini.
208-215	187	-----	C	ROT.SPEED 2
216-223	195	-----	C	ROT.SPEED 3
224-231	203	-----	C	ROT.SPEED 4
232-239	211	-----	C	ROT.SPEED 5
240-247	219	-----	C	ROT.SPEED 6
248-255	227	-----	C	ROT.SPEED 7 max.

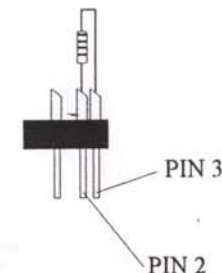
Channel DMX	N°3	RUOTA GOBO			
DMX rage Value(1)	Mid point DMX value(1)	Move rage (gradi)	Mode(2)	Option(3)	Function
0-11	5	0	S		NO GOBO
12-23	17	45	S		GOBO 1
24-35	29	45	S		GOBO 2
36-47	41	45	S		GOBO 3
48-59	53	45	S		GOBO 4
60-71	65	45	S		GOBO 5
72-83	77	45	S		GOBO 6
84-98	91	45	S		GOBO 7
99-110	104	0	S		NO GOBO
111-122	116	45	S		GOBO 1
123-134	128	45	S		GOBO 2
135-146	140	45	S		GOBO 3
147-158	152	45	S		GOBO 4
159-170	164	45	S		GOBO 5
171-182	176	45	S		GOBO 6
183-197	190	45	S		GOBO 7
198-205	201	-----	C		ROT.SPEED 1 min.

TERMINAL DMX SIGNALS:

Install when the signal wire has to be put in long distances or where there are electrical disturbmets for example in a disco, concert, theater etc we advice to use a dmx terminal. the dmx terminal or even more a canon xrl-5 connected with a resistance to 120 ohm between 2 and 3 the resistance is put in the plug of the dmx of the last device that has been linked as shown following.

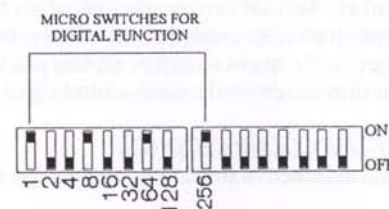


ATTACHMENT OF THE
TERMINAL DMX INSTALL A
RESISTANCE OF
120(OHM)BETWEEN 2 AND 3
IN THE PLUG XRL AND
INSERT IN THE DIGITAL
PLUG OUT OF THE LAST
DEVICE OF THE ROW



DEVICE CODIFICATION

Each SCANNER occupies 8 channels so that the signals are correctly made on each device such operation is done on each SCANNER putting the micro switches dislocated on the back side . Follow the examples as shown



SCANNER 1							ON OFF
SCANNER 2							ON OFF
SCANNER 3							ON OFF
SCANNER 4							ON OFF
SCANNER 5							ON OFF
SCANNER 6							ON OFF
SCANNER 7							ON OFF
SCANNER 8							ON OFF

CC
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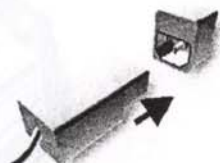
ELECTRIC NETWORK:

Switch the device on with the wire that is given to you with the tension and frequency that is indicated on the front side of the device we advise you to put the device in network throughout the proper switch that way you can switch and turn them off separately

ATTENTIONS:

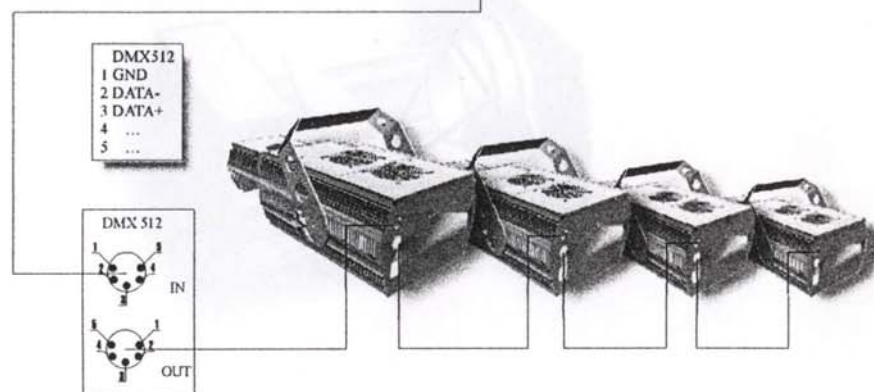
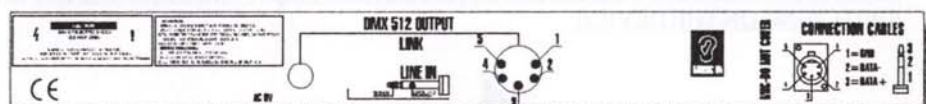
It is important to connect the device (massa di terra) within the rules of law Power absorption of the device is of 800 VA

N=BLU
E=YELLOW/GREEN
L=BROWN

**CONNECTION WITH THE SWITCHBOARD CONTROLLER:**

The SCANNER works with digital DMX 512 (1990) signals. The connection between the device and the switchboard or from device to device has to be done with a bipolar wire sheltered with a screen section of at least 0.5 mm², linked to the attached canon xrl-5 (current-tap and plug given with the device). It is important that the wires do not make contact between them and also that they do not touch the covering of the plug. The cover of the plug must not be connected to anything.

Connect the command of the switchboard with the plug on the device that is shown with DMX in on link with the another device putting its plug in DMX OUT. Concatenate all the other devices.



206-213	211	-----	C		ROT.SPEED 2
214-221	217	-----	C		ROT.SPEED 3
222-229	225	-----	C		ROT.SPEED 4
230-237	233	-----	C		ROT.SPEED 5
238-245	241	-----	C		ROT.SPEED 6
246-255	250	-----	C		ROT.SPEED 7 max

Channel DMX	N°4	STROBE/DIMMER			
DMX range Value(1)	Mid point DMX value(1)	Move range (gradi)	Mode(2)	Option(3)	Function
0-9	4	0	S		BLACK-OUT
10-85	42	0-37.4	C		DIMMER

STROBE

86-95	90	0-37.4			RANDOM SPEED
96-105	100	0-37.4	-----		SPEED 1 minima
106-115	110	0-32.5	-----		SPEED 2
116-125	120	0-28.2	-----		SPEED 3
126-135	130	0-23.7	-----		SPEED 4
136-145	140	0-18.1	-----		SPEED 5
146-155	150	0-14.3	-----		SPEED 6 max

EVANESCENCE IN OPENING

156-165	160	0-37.4	-----		SPEED 1 minim.
166-175	170	0-37.4	-----		SPEED 2
176-185	180	0-37.4	-----		SPEED 3
186-195	190	0-37.4	-----		SPEED 4 max

EVANESCENCE IN CLOSING

196-205	200	0-37.4	-----		SPEED 1 minim.
206-215	210	0-37.4	-----		SPEED 2
216-225	220	0-37.4	-----		SPEED 3
226-235	230	0-37.4	-----		SPEED 4 max

236-245	240	0	S		MOVEMENT IN BLK
246-255	250	0	S		OPEN

Channel DMX	N°5	PAN			
DMX range Value(1)	Mid point DMX value(1)	Move range (gradi)	Mode(2)	Dip-sw(3)	Function
0	-----				-----
1-254	128	180			-----
255	-----				-----

Channel DMX	N°6	TILT			
DMX rage Value(1)	Mid point DMX value(1)	Move rage (gradi)	Mode(2)	Dip-sw (3)	Function
0	-----				-----
1-254	128	43			-----
255	-----				-----

Channel DMX	N°7	SELECTION EFFECT			
DMX rage Value(1)	Mid point DMX value(1)	Move rage (gradi)	Mode(2)	Dip-sw (3)	Function
0-85	42	0	S		NO EFFECT
86-171	128	57.6	S		FROST
172-255	213	133.2	S		PRISMA

Channel DMX	N°8	ROTATION PRISMA			
DMX rage Value(1)	Mid point DMX value(1)	Move rage (gradi)	Mode(2)	Option (3)	Function
0-117	58				ANTI-CLOCKWISE ROT
118-137	128				STOP
138-255	196				CLOCKWISE ROT

REPLACEMENT OF THE ROTATING GOBO

It is possible to change the gobos by removing from the device the 4 screws on the backside of it and the three screws in front of the SCANNER (fig1) remove the fixed spring from the gobo and proceed with its replacement (fig1)

It is absolutely essential a regular cleaning of the removable gobos holder.

***DO NOT USE ANY KIND OF SOLVENT TO CLEAN.**

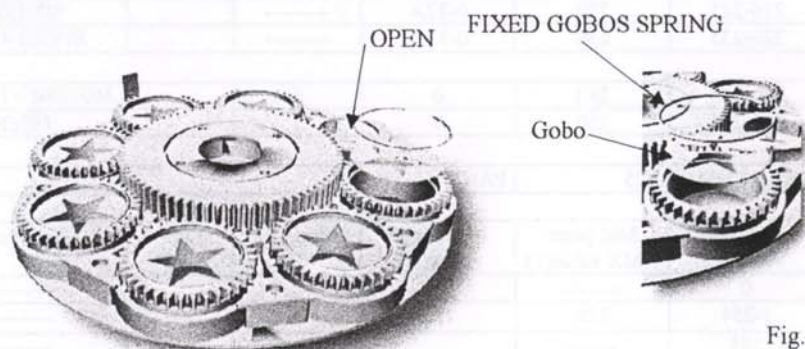
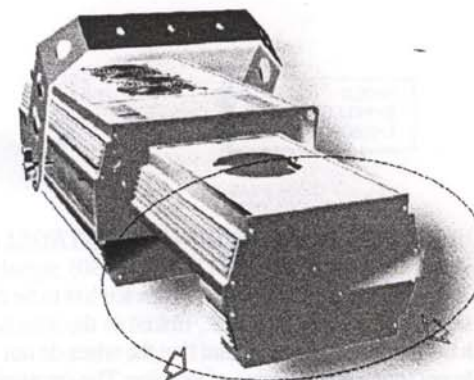


Fig.1

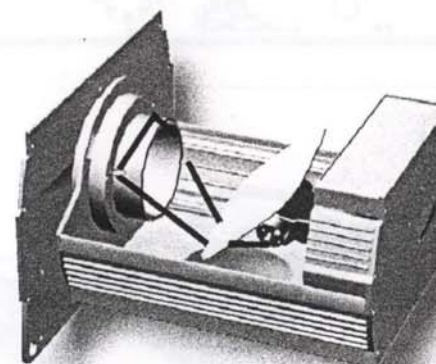
REGULATION OF THE FIXED MIRROR

The lock of the mirror is previously fixed on the device with the two hand wheels it is possible to regulate the blocked mirrors in the position that one desires. Avoid all this when the device is turned on.



Head rotation at 180°

ATTENTION: TAKE OFF THE ELASTIC PROTECTION FROM THE MIRRORS BEFORE SWITCHING ON THE DEVICE



Channel DMX	N°6	TILT			
DMX rage Value(1)	Mid point DMX value(1)	Move rage (gradi)	Mode(2)	Dip-sw (3)	Function
0	-----				-----
1-254	128	43			-----
255	-----				-----

Channel DMX	N°7	SELECTION EFFECT			
DMX rage Value(1)	Mid point DMX value(1)	Move rage (gradi)	Mode(2)	Dip-sw (3)	Function
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Channel DMX	N°8	ROTATION PRISMA			
DMX rage Value(1)	Mid point DMX value(1)	Move rage (gradi)	Mode(2)	Option (3)	Function
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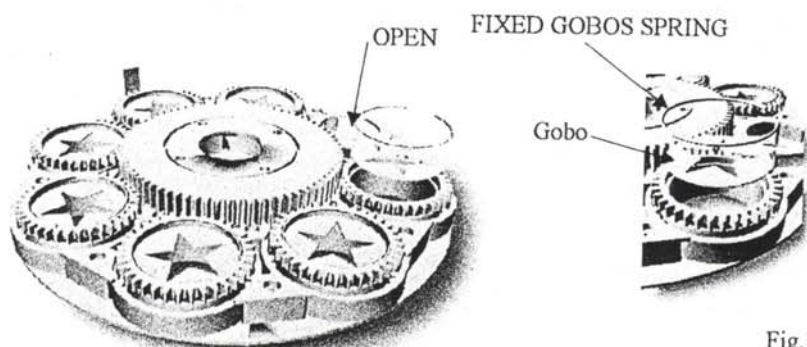


Fig.1

FUNCTIONAL ANOMALIES PROBLEMS

The device does not switch on backside of the device
The electronics does not work configuration on the device

The devise on intermit turns on and of

Projection of rays of light with halo

Luminosity reduction

POSSIBLE SOLUTIONS

Control the fuse on the

Control the exact

Control the function of the fan

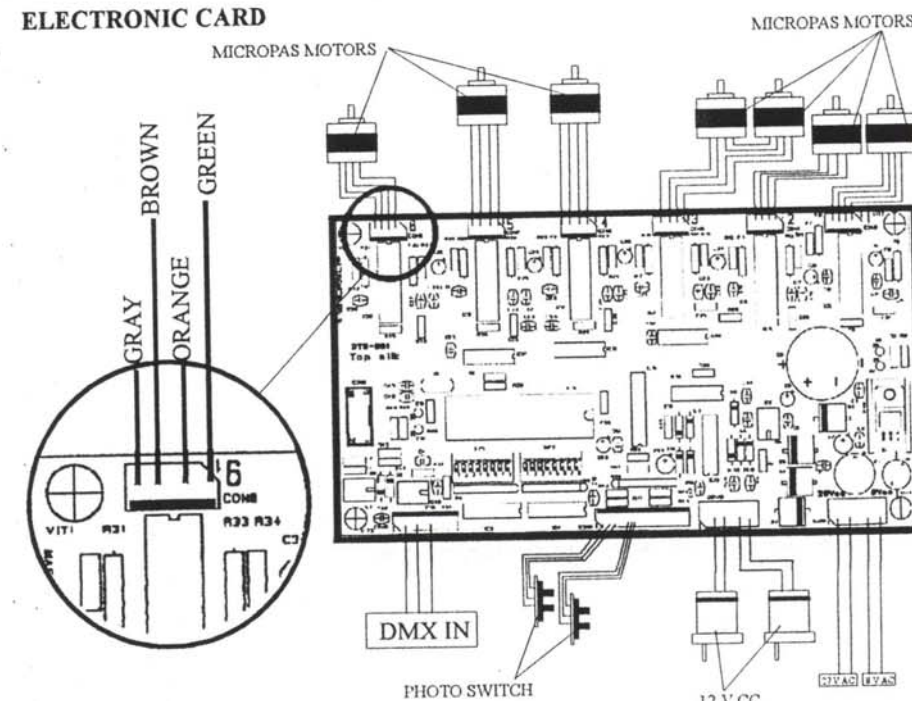
Control that the lamp has been put in the Right position
Control the focus deriv

Exhausted lamp

Control that the lens are clean

For any other types of problems we strictly reccomend that a professional qualified techniques is contacted

ELECTRONIC CARD



110-114	112	18	S	COLOR 2
115-119	117	18	S	BICOLOR 2/3
120-124	122	18	S	COLOR 3
125-129	127	18	S	BICOLOR 3/4
130-134	132	18	S	COLOR 4
135-139	137	18	S	BICOLOR 4/5
140-144	142	18	S	COLOR 5
145-149	147	18	S	BICOLOR 5/6
150-154	152	18	S	COLOR 6
155-159	157	18	S	BICOLOR 6/7
160-164	162	18	S	COLOR 7
165-169	167	18	S	BICOLOR 7/8
170-174	172	18	S	COLOR 8
175-179	177	18	S	BICOLOR 8/9
180-184	182	18	S	COLOR 9
185-189	187	18	S	BICOLOR 9/10
190-194	192	18	S	COLOR 10
195-199	197	18	S	ICOLOR 10/1
200-207	179	-----	C	ROT.SPEED 1mini.
208-215	187	-----	C	ROT.SPEED 2
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224-231	203	-----	C	ROT.SPEED 4
232-239	211	-----	C	ROT.SPEED 5
240-247	219	-----	C	ROT.SPEED 6
248-255	227	-----	C	ROT.SPEED 7 max.

Channel DMX	N°3	RUOTA GOBO			
DMX rage Value(1)	Mid point DMX value(1)	Move rage (gradi)	Mode(2)	Option(3)	Function
0-11	5	0	S		NO GOBO
12-23	17	45	S		GOBO 1
24-35	29	45	S		GOBO 2
36-47	41	45	S		GOBO 3
48-59	53	45	S		GOBO 4
60-71	65	45	S		GOBO 5
72-83	77	45	S		GOBO 6
84-98	91	45	S		GOBO 7
99-110	104	0	S		NO GOBO
111-122	116	45	S		GOBO 1
123-134	128	45	S		GOBO 2
135-146	140	45	S		GOBO 3
147-158	152	45	S		GOBO 4
159-170	164	45	S		GOBO 5
171-182	176	45	S		GOBO 6
183-197	190	45	S		GOBO 7
198-205	201	-----	C		ROT.SPEED 1 min.

206-213	211	-----	C	ROT.SPEED 2
214-221	217	-----	C	ROT.SPEED 3
222-229	225	-----	C	ROT.SPEED 4
230-237	233	-----	C	ROT.SPEED 5
238-245	241	-----	C	ROT.SPEED 6
246-255	250	-----	C	ROT.SPEED 7 max

Channel DMX	N°4	STROBE/DIMMER			
DMX rage Value(1)	Mid point DMX value(1)	Move rage (gradi)	Mode(2)	Option(3)	Function
0-9	4	0	S		BLACK-OUT
10-85	42	0-37.4	C		DIMMER

STROBE

86-95	90	0-37.4		RANDOM SPEED
96-105	100	0-37.4	-----	SPEED 1 minima
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116-125	120	0-28.2	-----	SPEED 3
126-135	130	0-23.7	-----	SPEED 4
136-145	140	0-18.1	-----	SPEED 5
146-155	150	0-14.3	-----	SPEED 6 max

EVANESCENCE IN OPENING

156-165	160	0-37.4	-----	SPEED 1 minim.
166-175	170	0-37.4	-----	SPEED 2
176-185	180	0-37.4	-----	SPEED 3
186-195	190	0-37.4	-----	SPEED 4 max

EVANESCENCE IN CLOSING

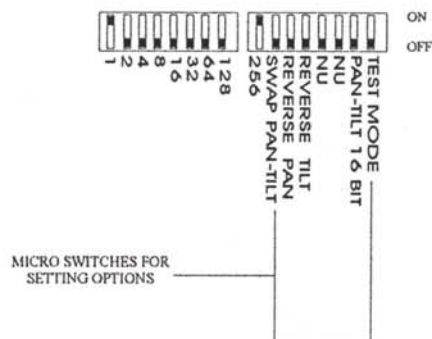
196-205	200	0-37.4	-----	SPEED 1 minim.
206-215	210	0-37.4	-----	SPEED 2
216-225	220	0-37.4	-----	SPEED 3
226-235	230	0-37.4	-----	SPEED 4 max

236-245	240	0	S	MOVEMENT IN BLK
246-255	250	0	S	OPEN

Channel DMX	N°5	PAN			
DMX rage Value(1)	Mid point DMX value(1)	Move rage (gradi)	Mode(2)	Dip-sw(3)	Function
0	-----				-----
1-254	128	180			-----
255	-----				-----

OPTIONS

The SCANNER has 5 options, which can be activated with the second group of micro switches of the setting section on the back panel

**SWAP**

The micro switches indicated as swp pan-tilt if activated permit you to invert the pan and its tilt functions

REVERSES PAN REVERSES TILT

The micro switches indicated as reverses pan and reverses tilt if activated they permit horizontal movements (pan) and vertical movements (tilt) of the mirrors that can be reversed. This can be useful in some installation for example where the device are put two opposite sides of the room, setting on one device the micro switch of reverses pan in position on the mirror will let the pan work in the same direction, with the same control signal.

SHUTTER ON THE COLOR CHANGER

The micro switch indicated as shutter on color change if activated makes the change of color in blackout

PAN TILT 16 BIT

The microswitch is indicated as pan - tilt 16 bit. If you turn it on, you activate the high resolution modality (16 bit) on pan and tilt. So that the channels become 10.

TESTMODE

The micro switch indicated as TEST MODE if activated makes the scanner control all the programs in function

SEQUENCES OF THE DMX CHANNEL:

CHANNEL	FUNCTION
1	ROTO GOBOS
2	COLOR
3	ROTATING GOBO WHEEL
4	DIMMER STROBO EVANESCENTA
5	PAN
6	TILT
7	WHEEL EFFECT FROST-PRISMA
8	ROTO PRISMA

Channel DMX	N°1	ROTOGOBO
DMX rage Value(1)	Mid point DMX value(1)	Move rage (gradi)
0-117	58	
118-137	128	
138-255	196	
		Mode(2)
		Option(3)
		Function
		ANTI-CLOCKWISE ROT
		STOP
		CLOCKWISE ROT

Channel DMX	N°2	RUOTA COLOR
DMX rage Value(1)	Mid point DMX value(1)	Move rage (gradi)
0-4	2	0
5-9	7	18
10-14	12	18
15-19	17	18
20-24	22	18
25-29	27	18
30-34	32	18
35-39	37	18
40-44	42	18
45-49	47	18
50-54	52	18
55-59	57	18
60-64	62	18
65-69	67	18
70-74	72	18
75-79	77	18
80-84	82	18
85-89	87	18
90-94	92	18
95-99	97	18
100-104	102	0
105-109	107	18
		Mode(2)
		Option(3)
		Function
		COLOR 1
		BICOLOR 1/2
		COLOR 2
		BICOLOR 2/3
		COLOR 3
		BICOLOR 3/4
		COLOR 4
		BICOLOR 4/5
		COLOR 5
		BICOLOR 5/6
		COLOR 6
		BICOLOR 6/7
		COLOR 7
		BICOLOR 7/8
		COLOR 8
		BICOLOR 8/9
		COLOR 9
		BICOLOR 9/10
		COLOR 10
		BICOLOR 10/1
		COLOR 1
		BICOLOR 1/2