

XR300 BEAM



XR300 BEAM BF
(Cod. 03.MB003.L)
• Electromagnetic ballast

XR300 BEAM FAR E.B.
(Cod. 03.MB002.EB.LF)
• FAR system • CMY • Electronic ballast

XR300 BEAM FAR
(Cod. 03.MB002.LF)
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XR300 BEAM E.B.
(Cod. 03.MB002.EB.L)
• CMY • Electronic ballast

User's Manual Rel 1.2 GB

D.T.S. Illuminazione srl - ITALY
<http://www.dts-lighting.it>



The Lighting Company

Made in Italy

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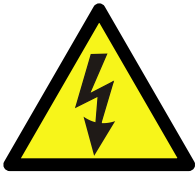
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1- SYMBOLS

Graphic symbols used on this manual



THIS SYMBOL INDICATES A HOT SURFACE



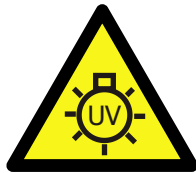
THIS SYMBOL INDICATES ELECTRIC SHOCK RISK



THIS SYMBOL INDICATES GENERAL RISK



THIS SYMBOL MEANS "DO NOT PLACE THE UNIT ON INFLAMMABLE SURFACES"



THIS SYMBOL MEANS "RADIATION FROM THIS LAMP CAN CAUSE DAMAGE TO EYES AND SKIN"



THIS SYMBOL INDICATES THE MINIMUM DISTANCE TO BE KEPT BETWEEN THE DEVICE AND THE LIT OBJECT

2- GENERAL WARNING

Read the instruction contained in this user manual carefully, as they give important information regarding safety during installation, use and maintenance.

The device is not for domestic use and must be installed by a qualified electrician or experienced person.

Always disconnect the device from the mains before replacing the lamp.

The lamp must be replaced if it has been damaged or deformed by prolonged use or overheating.

The device must always be equipped with an efficient ground connection.

3- GENERAL WARRANTY CONDITIONS

The unit is guaranteed for 24 months from the date of purchase against manufacturing material defects.

4- TECHNICAL FEATURES

The XR300 BEAM is a new compact moving head with an extremely high light power, projecting a parallel and very concentrated beam.

With its new optical unit, the XR300 BEAM generates 135.000 Lux at 5 metres, using only a 300 W lamp, giving an exceptional balance between performance and power consumption.

The XR300 BEAM is designed for a wide range of professional applications, like concerts, shows, tours, television, theatre, and big events. XR300 BEAM ensures in fact great flexibility in use, because in a single projector it incorporates a range of functions normally available only on different units (long-throw projectors with high-power lamps, PAR 64 ACL, moving heads).

The XR300 BEAM features a breakthrough in moving-head technology, dubbed **Free Axis Rotation ("FAR")**. The FAR system allows limitless pan and tilt rotation: the XR300 BEAM head rotates freely on its axes, horizontally or vertically, without interruption, in either direction, never having to reverse motion. The XR300 BEAM's ability to quickly and precisely select any point within its limitless sphere of movement means faster looks and scene changes.

The XR300 BEAM also offers unmatched creative control to the lighting designer. Unique geometrical designs, shapes, and scenes, unobtainable with conventional moving heads, are now possible for application in concerts, theatres, studios, etc.

The FAR system is guaranteed and has been thoroughly tested.

The XR300 BEAM offers:

- * Exceptional light power (135.000 Lux at 5 metres);
- * The capacity to project a highly condensed and intense beam of light even over great distances, thanks to the high efficiency of the new optical group;
- * Variety of colours (CMY synthesis + 7-colour wheel + CTO);
- * Customizable gobo wheel (7 rotating gobos);
- * Insertable frost filter (soft edge);
- * Unlimited Pan and Tilt movements (new FAR technology).

The XR300 BEAM is also the ideal light for a vast range of applications in which quiet operation is a priority, thanks to its silent ventilation system and silent pan/tilt operation.

Access to every feature of the internal menu is simple and direct, thanks to the new user interface featuring a LCD backlit graphic display (128 x 64).

XR300 BEAM FAR E.B.

(Cod. 03.MB002.EB.LF)

- FAR system • CMY • Electronic ballast

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XR300 BEAM BF

(Cod. 03.MB003.L)

- Electromagnetic ballast

Lamp

Philips MSD Gold 300/2 Mini FastFit (300W / 22.000 Lumens)

Automatic switching on of lamp in case of accidental switching off

Lamp on/off via DMX; reset via DMX

Optical group

135.000 Lux at 5 m (6° beam angle)

Fresnel lens (Ø 195 mm)

Dichroic glass reflector

Dimmer / shutter / strobo

Linear dimmer

Shutter

Strobe from 0,85 flash/sec to 10 flash/sec

4- TECHNICAL FEATURES

Colours

CMY colour synthesis system (XR300 BEAM FAR E.B. / XR300 BEAM FAR / XR300 BEAM E.B.)+ colour wheel (7 colours + CTO) with linear selection for perfect 2-colour beams
Colour change with blackout sync; rainbow effect

Gobos

1 customizable rotating gobo wheel (7 gobos); extractable gobo holders
Gobo change with synchronized blackout
Gobo scrolling; Gobo shake

Frost

Linear frost filter (soft edge)

Pan / Tilt

Unlimited Pan rotation; unlimited Tilt rotation (XR300 BEAM FAR E.B. / XR300 BEAM FAR)
Pan 540° (3,9 sec.), Tilt 270° (2,6 sec.) (XR300 BEAM E.B. / XR300 BEAM BF)
16-bit resolution
8 selectable speed ranges; extremely smooth and precise movements even at the highest speeds
Pan / Tilt locking system with recessed buttons
Automatic Pan/Tilt repositioning in case of knocks

DMX / Network

23 DMX channels (XR300 BEAM FAR E.B. / XR300 BEAM FAR / XR300 BEAM E.B.)
16 DMX channels (XR300 BEAM BF)
Internal operating system updatable via DMX

Interface

LCD (128x64) backlit graphic display (XR300 BEAM FAR E.B. / XR300 BEAM FAR / XR300 BEAM E.B.)
4 -eight digit- LED display with 4 buttons.(XR300 BEAM BF)

Connections

4 XLR connectors (3-pole In and Out; 5-pole In and Out) by Neutrik; POWERCONN connector by Neutrik

Power supply

Electronic ballast; 90-260 V (50/60 Hz); power consumption: 400 W
(XR300 BEAM FAR E.B. / XR300 BEAM E.B.)
Electromagnetic ballast: 230 V (50/60 Hz); power consumption: 400 W
(XR300 BEAM FAR / XR300 BEAM BF)
Power saving mode (the lamp dims to 50% six seconds after shutter closure)
(XR300 BEAM FAR E.B. / XR300 BEAM E.B.)

Standard accessories

- 2 x "C" GQuick clamps with "fastlock" connection
- 1 x Philips MSD Gold 300/2 Mini FastFit Lamp (cod. 0505S028)
- 1 x POWERCONN male cable connector (cod. 0520P014)
- 1 x XLR 5 Pins male cable connector (cod. 0508B028)
- 1 x XLR 5 Pins female cable connector (cod. 0508B027)
- 5 x Metal Gobos

Thermal Operating ambient temperature: -10° / 40°

Dimensions (WxDxH) 485x450x637 mm

Weight

25 Kg XR300 BEAM FAR E.B. / XR300 BEAM E.B.
31 Kg XR300 BEAM BF
34Kg XR300 BEAM FAR

Approved lamps

Model	Watt	Base	K°	Lumens	Life(h)
Osram Lok-it 300W	300	PGJX28	8.000	24.000	2.000
Philips MSD Gold 300/2 Mini FastFit	300	PGJX28	8.400	22.000	2.000

4- TECHNICAL FEATURES

Dimensions

Packaging Dimensions (LxWxH)

550 x 440 x 800 mm

Weight:

32 Kg XR300 BEAM FAR E.B. / XR300 BEAM E.B.

38 Kg XR300 BEAM BF

41Kg XR300 BEAM FAR

Unit Dimensions (LxWxH)

485x450x637mm

Weight:

25 Kg XR300 BEAM FAR E.B. / XR300 BEAM E.B.

31 Kg XR300 BEAM BF

34Kg XR300 BEAM FAR



5- ACCESSORIES

As standard

- 1 x Philips MSD Gold 300/2 Mini FastFit Lamp (cod. 0505S028)
- 1 x POWERCONN male cable connector (cod. 0520P014)
- 1 x XLR 5 Pins male cable connector (cod. 0508B028)
- 1 x XLR 5 Pins female cable connector (cod. 0508B027)
- 5 x Metal Gobos
- 2 x "C" Clamp GQUICK with "Fast Lock" connection 1/4 turn (max. load. 80Kg) (cod. 0521A014)
- User's manual

Optional (on request)

Flight cases

- Double Professional Flight case; compartment for lamps and accessories, swivel wheels, cover with hinges with-stay, dishes on cover for piling, 8 handles (2 each side) (cod. 0521C032)

Rain covers

- Rain cover for XR base (top) (cod. 03.MA001)
- Rain cover for XR base (bottom) (cod. 03.MA002)

Embedding flanges

- Embedding flange for XR (visible display) (cod. 03.MA005)
- Embedding flange for XR (no visible display) (cod. 03.MA006)

Wireless DMX receivers retrofits

- Wireless DMX Receiver Card with 0508A033 - INDOOR IP20 2-dBi antenna included

Clamps / safety wires

- "C" Clamp G60 black (max. load 50Kg) (cod. 0521A004)
- "C" Clamp G60 chrome (max. load. 50Kg) (cod. 0521A004.20)
- "C" Clamp GQUICK with "Fast Lock" connection 1/4 turn (max. load. 80Kg) (cod. 0521A014)
- "C" Clamp G100 black / professional (max. load. 200Kg) (cod. 0521A015)
- Omega clamp with "Fast Lock" connection 1/4 turn 1 couple (2 pieces) (Cod. 02K00467)
- Safety wire (3mm x 60 cm), ring spring catch, max. capacity load 60Kg (cod. 0521A010)

6- IMPORTANT SAFETY INFORMATION

6.1 Fire prevention:

XR300 BEAM uses a Philips MSD Gold 300/2 Mini FastFit lamp (Alternative approved lamp: Osram Lok-it 300W)

The use of any other alternative lamp is not recommended and will null and void the fixture's warranty.

-Never locate the fixture on any flammable surface.

-Minimum distance from flammable materials: 1.5 MT. 

-Minimum distance from the closest illuminable surface: 2 MT. 

-Replace any blown or damaged fuses only with those of identical value. Refer to the wiring diagram if there is any doubt.

-Connect the projector to mains power via a thermal magnetic circuit breaker.

6.2 Prevention of electric shock:



-High voltage is present inside the unit. Unplug the unit prior to performing any function which involves touching the inside of the moving head, including lamp replacement.

-The level of technology inherent in the XR300 BEAM requires the assistance of specialised personnel for all servicing. Please refer to an authorised DTS service centre.

-A good earth connection is essential for proper functioning of the projector.

-Never connect the unit without proper earth connection.

-The fixture should be located in places with a good air ventilation.

6.3 Protection against ultraviolet radiation:



-Never turn on the lamp if any of the lenses, filters or ABS covering are damaged. Their respective shielding functions will only operate efficiently if they are in perfect working order.

-Never look directly at the lamp when it is on.

6.4 Safety:




-The projector should always be installed with bolts, clamps and other tools that are capable of supporting the weight of the unit.

-Always use a second safety cable to sustain the weight of the unit in case of the failure of the main fixing point.

-The external surface of the unit, at various points, may exceed 70°C. Never handle the unit until at least 10 minutes have elapsed since the lamp was turned off.

-Always replace the lamp if any physical damage is evident.

-Never install the fixture in an enclosed area lacking sufficient air flow. The ambient temperature should not exceed 40°C. 

-A hot lamp may explode, so always wait for at least 10 minutes prior to attempting to replace the lamp.

-Always wear suitable hand protection when handling the lamp.

6.5 Level of protection against the penetration of solid and liquid objects:



-The projector is classified as an ordinary appliance and its protection level against the penetration of solid and liquid objects is IP 20.

For outdoor use, D.T.S. recommend the use of the dedicated raincovers:

- Rain cover for XR base (top) (cod. 03.MA001)
- Rain cover for XR base (bottom) (cod. 03.MA002)

7- MOUNTING THE LAMPS

Warning: Switch off the unit before replacing the lamp.



Philips MSD Gold 300/2 Mini FastFit
Power 300W
Luminous flux 22,000 lm
Colour temperature 8.400°K
Lampbase PGJX28
Rated life 2000 hours

Osram Lok-it 300W
Power 300W
Luminous flux 24,000 lm
Colour temperature 8.000°K
Lampbase PGJX28
Rated life 2000 hours

1) Using a screwdriver, loose the 3 screws A, B, C, (photo 1) and remove the metal cover .



Photo 1

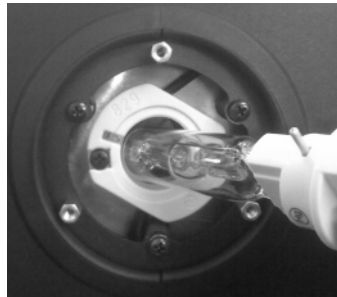


Photo 2

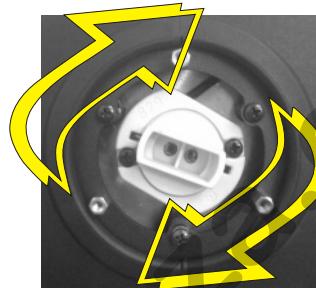


Photo 3



Photo 4

2) Insert the lamp (photo2).

3) Rotate the lamp 1/4 turn clockwise (photo 3 and 4).

The lamp used on XR300 BEAM is made in quartz glass and should be handled with care. Always follow the instructions supplied in the lamp's packaging. Never touch the glass directly but use the tissue provided in the lamp's packaging. The GJX28 lamp socket is symmetrical.

DO NOT USE UNDUE FORCE ON THE GLASS. In case of difficulty, read again the instructions and repeat the procedure.

4) Replace the metal cover and tighten the screws A,B,C, which were previously removed.

WARNING: Never look directly at the lamp when it's lit.

Discharge lamps emits UV rays; radiation from this lamp can cause damage to eyes and skin.



7.1 Lamp alignment

Attention: we recommend to align the lamp in the optical system to avoid overheating of the dichroic filters and other components inside the unit. The lamp alignment is also essential to obtain the maximum uniformity and luminous performance by the projection.

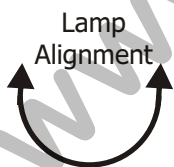


Photo 5



1) Mount the fixture in an orientation so that it may be squarely projected onto a smooth white surface no less than 3 meters away. 2) Using a console or the menu system, focus an open (white) beam onto the surface and observe the beam. 3) Using a phillips-head screw driver, rotate the 3 adjusters X, Y and Z (photo 5) until you achieve a uniform flat field.

When the lamp is correctly optimized, you will have an evenly projected light beam, with no shadows or zones wich are brighter than others.

8- VOLTAGE AND FREQUENCY

The XR300 BEAM with electronic ballast can operate at 90-260 VOLT 50 or 60 Hz.
The XR300 BEAM with Electromagnetic ballast can operate at 230 VOLT 50 or 60 Hz.

9- INSTALLATION

XR300 BEAM may be either floor or ceiling mounted.

For floor mounting installations, the XR300 BEAM is supplied with four rubber mounting feet on the base.

For ceiling mounted installations, we recommend the use of appropriate clamps to fix the unit to the mounting surface.

The supporting structure from which the unit is hung should be capable of bearing the weight of the unit, as should any clamps used to hang it. The structure should also be sufficiently rigid so as not to move or shake whilst the XR300 BEAM is moving.

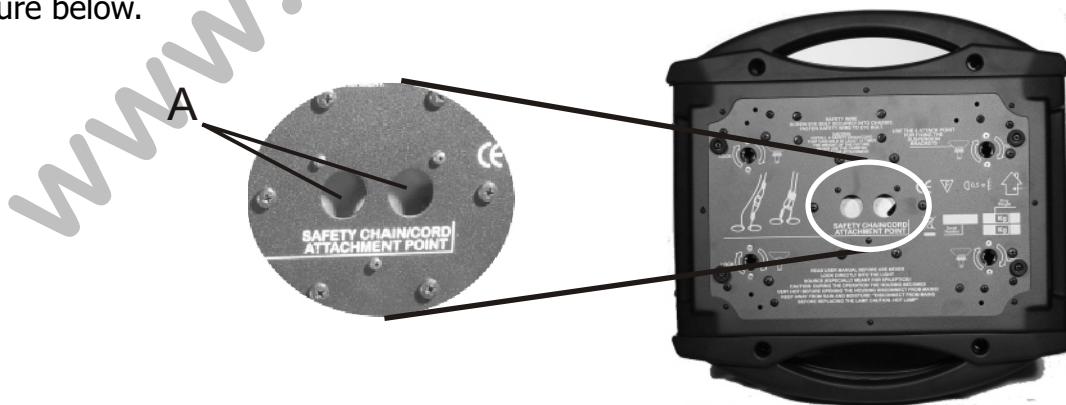
Eight 1/4 turn Fast Locks connections placed in the base of the units allow to fix the XR300 BEAM in any position, by using the two Fast Lock 'C' clamps provided in the box.



9.1- Safety cable

We recommend the use of a safety cable or chain connected to the XR300 BEAM and to the suspension truss in order to avoid the fixture accidentally falling should the main fixing point fail. Make sure that the iron cable or chain can bear the weight of the entire unit.

You may attach the safety chain to the two holes (A) located on the base of the fixture, as shown in the picture below.



9.2- Protection against liquids

The projector contains electric and electronic components which should under no circumstances come into contact with oil, water or any other liquid. The proper unit functioning would be compromised should this occur.

9.3- Movement

Unlimited Pan rotation; unlimited Tilt rotation (XR300 BEAM FAR E.B. / XR300 BEAM FAR)
Pan 540° (3,9 sec.), Tilt 270° (2,6 sec.) (XR300 BEAM E.B. / XR300 BEAM BF)

Free Axis Rotation ("FAR")



WARNING

Do not place any object in the path of the projector's movement



No Free Axis Rotation ("FAR")

9.4- Risk of fire

Each fixture produces heat and must be installed in a well-ventilated place. The minimum recommended distance from flammable material is 1 MT.



Minimum distance from the object being illuminated is 2 MT.

9.5- Forced ventilation

You will note, on inspection, that the unit features various air inlets and cooling fans located on both the base and head of the fixture. These should, under no circumstances, be blocked or obstructed whilst the projector is in operation.

Doing so could cause the fixture to seriously overheat thereby compromising its proper operation.

9.6- Ambient temperature

The projector should never be installed in places that lack a constant air flow. The ambient temperature should NOT exceed 40°C.

10- MAINS CONNECTION

XR300 BEAM with electronic ballast operate at 90-260 VOLT 50-60 Hz.

XR300 BEAM with Electromagnetic ballast operate at 230 VOLT 50 or 60 Hz.

Prior to connecting the unit to your mains supply, ensure that the model in your possession correctly matches the mains supply available. For connection purposes, ensure that your plug is capable of supporting 5 amps at 230V, Or 10 amps at 100-120 V

Strict adherence to regulatory norms is strongly recommended.



Electronic ballast
90-260V 50 / 60Hz



Electromagnetic ballast
230V 50 / 60Hz

10.1- Protection

The use of a thermal magnetic circuit breaker is recommended for each XR300 BEAM.

A good earth connection is essential for the correct operation of the projector.



11- DMX SIGNAL CONNECTION

The unit operates using the digital DMX 512 (1990) signal. Connection between the mixer and the projector or between projectors must be carried out using a two pair screened \varnothing 0.5 mm cable and a XLR 5 or 3 pins connector. Ensure that the conductors do not touch each other. Do not connect the cable ground to the XLR chassis

The plug housing must be isolated. Connect the mixer signal to the DMX IN projector plug and connect it to the next projector by connecting the DMX OUT plug on the first projector to the DMX IN plug of the second one.

This way, all the projectors are cascade connected.

NB. If the display showing the DMX address flashes, then one of the following errors has occurred:

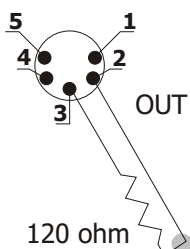
- DMX signal not present
- DMX address not valid
- DMX reception problem



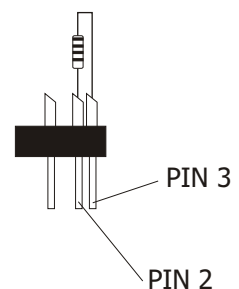
For Installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.

The DMX terminator is a male XLR 3-5 pins connector with a 120 ohm resistor Between pin 2 and 3.

The DMX terminator must be plugged into the last unit (DMX out panel connector) of the DMX line.



PLACE A 120 OHM RESISTOR BETWEEN PIN 2 AND 3 OF A MALE XRL CONNECTOR AND PLUG IT INTO THE DMX OUT PANEL CONNECTOR OF THE LAST UNIT CONNECTED TO THE DMX LINE



11.1-DMX Addresses

XR300 BEAM FAR E.B, XR300 BEAM FAR, XR300 BEAM E.B, can be controlled with 23 (default) or 18 DMX channels.

XR300 BEAM BF, can be controlled with 17 (default) or 16 DMX channels.

If you want to use the unit in 23 channels, set the following addresses on the mixer:

Projector 1	A001	
Projector 2	A024	If you want to select the next projector, just add "23"
Projector 3	A047	
.....	A....	
projector 6	A116	

If you want to use the unit in 17 channels, set the following addresses on the mixer:

Projector 1	A001	
Projector 2	A018	If you want to select the next projector, just add "16"
Projector 3	A035	
.....	A....	
projector 6	A086	

11.2-Selecting the DMX address

1) Press the UP-DOWN key until you reach the required DMX channel. The numbers on the display will start to flash (but the new DMX address hasn't yet been set).

2) Press ENTER to confirm your selection. The numbers on the display will stop flashing and the projector is now setted to the new DMX address.

TRICKS:

if you keep pushed the UP or DOWN keys, the channels are calculated more quickly and you get a faster selection.

12 FIRMWARE UPDATING

Warning:

This procedure require a base knowelge of computer applications and Windows Hyperterminal program. **Please refer to an authorised DTS service centre.**

To update the software version of the XR300 BEAM you need:

D.T.S. RED BOX interface (D.T.S. Code: 03.LA.008).

USB-DMX Drivers for the D.T.S. RED BOX interface .

(The drivers and the installation procedure are available in our web site www.dts-lighting.it)



'Updating the software version'

Please follow the procedure below to perform the update:

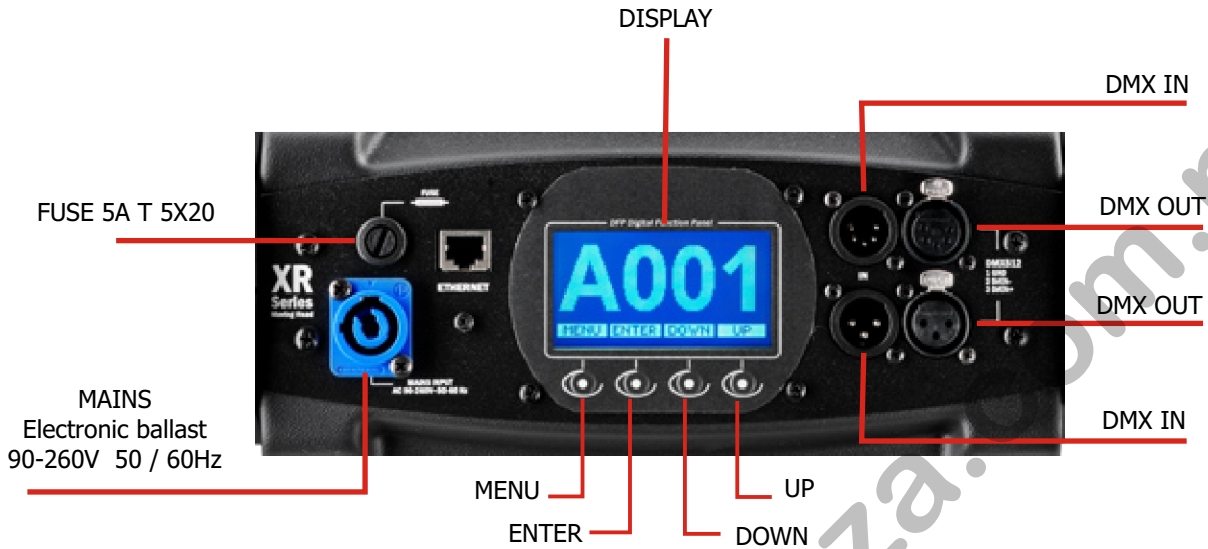
1. Install the D.T.S. RED BOX USB-DMX driver on the PC you will use to update the unit software.
2. Connect the D.T.S. RED BOX interface to the PC by using a USB cable.
3. Connect the D.T.S. RED BOX interface to the fixture by using a DMX cable.
4. Download the new software version into the unit by using Windows Hyperterminal program.

It will be possible to download the software from the reserved area of D.T.S. web site:

Www.dts-lighting.it.

13- DISPLAY FUNCTIONS

XR300 BEAM FAR E.B. (Cod. 03.MB002.EB.LF) • FAR system • CMY • Electronic ballast
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DISPLAY FUNCTIONS

The XR300 BEAM display panel shows all the available functions . Using these functions, it is possible to change some of the parameters and add some functions. Changing the DTS setting can vary the functions of the unit so that it does not respond to the DMX 512 used to control it. Carefully follow the instructions below before carrying out any variations or selections.

NOTE: the symbol  shows which key has to be pushed to obtain the desired function.

  Pan Direction



Pan movement Normal or Reversed
 Default = Normal



PAN DIRECTION
 This menu allows to set the Pan movement.
 Normal or Reversed

  Tilt Direction



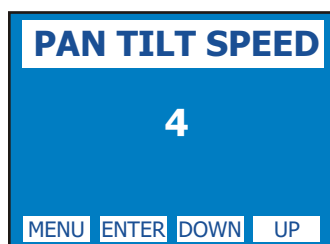
Tilt movement Normal or Reversed
 Default = Normal



TILT DIRECTION
 This menu allows to set the Pan movement.
 Normal or Reversed

  Pan Tilt Speed



Pan Tilt Speed control
 Default = 4



PAN TILT SPEED
 Pan Tilt Speed control (1-4)

13- DISPLAY FUNCTIONS

Display

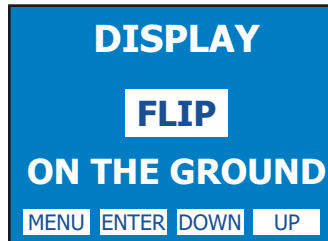
 

DISPLAY FLIP / STAND BY / CONTRAST

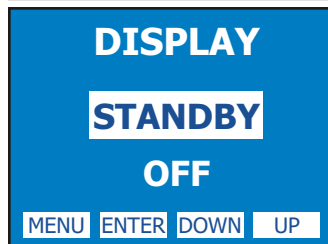
Display Flip:
Reverses display's reading depending on the mounting position
(On the ground or suspended).

Display Standby:
To turn off the display (after 5 seconds)
Or leave it always on.

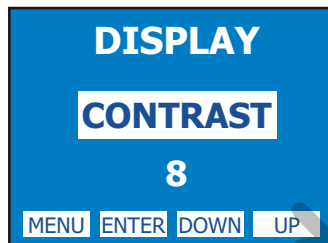
Display Contrast:
Display contrast regulation (1-16)



Display Flip
ON THE GROUND (Default)
SUSPENDED



Display Standby
OFF = Display Standby disabled
(Default)
ON = Display goes OFF after 5 seconds



Display Contrast
1-16 (Default = 8)



DMX Mode

DMX MODE
To select DMX mode :
23 channels or 18 channels



DMX mode
21 channels (Default)
18 channels

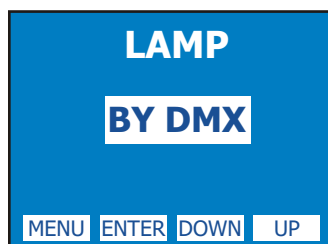


Lamp

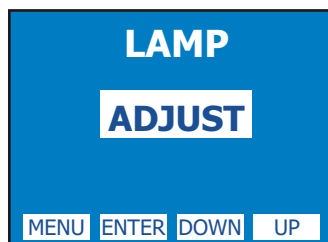
 

LAMP
Lamp always ON, always OFF,
lamp ON-OFF selectable via DMX
And lamp life time reset

ADJUST
To adjust the lamp with no mixer
connected.
It's possible to set the parameters for
PAN-TILT and ZOOM



BY DMX = ON / OFF via DMX (default)
ALWAYS ON = Forced ON
ALWAYS OFF = Forced OFF
RESET COUNTER = Lamp life time
reset



**LAMP ADJUST = To adjust the lamp
with no mixer connected.**
It's possible to set the parameters for
PAN-TILT and ZOOM

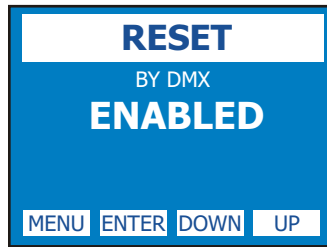


13- DISPLAY FUNCTIONS

  Reset

RESET
Reset via DMX ENABLED / DISABLED
and unit reset



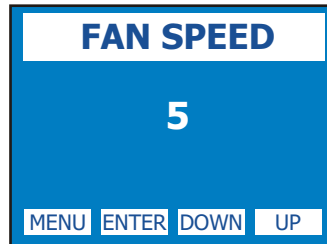
ENABLED = Reset via DMX enabled (Default)
DISABLED = Reset via DMX disabled
NOW = Unit motors reset



  Fan Speed

FAN SPEED
Fan Speed control



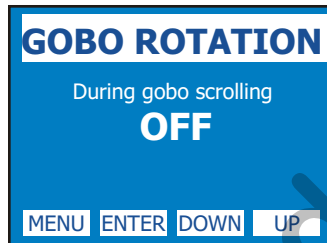
Fan speed control
1-5 (Default = 5)



  Gobo Rotation

GOBO ROTATION
Gobo rotation control the Rotating speed of gobo



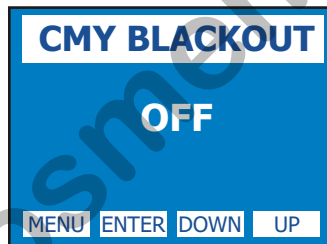
ON
OFF = (Default)



  CMY Blackout

CMY BLACKOUT
CMY filters blades inserted at 100% if the dimmer remain closed for more than 5 seconds.
By activating this function, it will be possible to reduce substantially any visible light reflection coming out from the front lens when dimmer is closed.



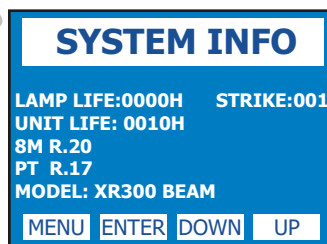
ON = Blackout enabled
OFF = Blackout disabled (Default)



  System info

SYSTEM INFO
Lamp life time, lamp strikes, unit life time, 8 motors card software version, Pan&Tilt card software version and unit model



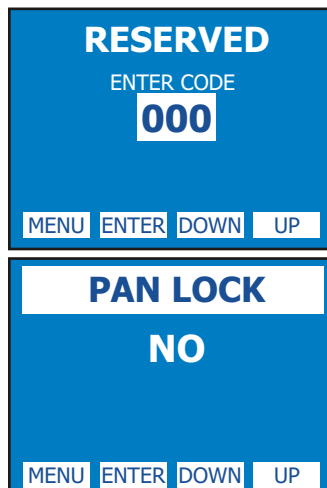
SYSTEM INFO
Lamp life time, lamp strikes, unit life time, 8 motors card software version, Pan&Tilt card software version and unit model



  Reserved

RESERVED
Pan lock-Tilt lock
Pan free-Tilt free
System Reboot
(Code = 100)



Pan Lock = Lock the Pan to the desired value
Tilt Lock = Lock the Tilt to the desired value
Pan Free = Remove power to Pan motor
Tilt Free = Remove power to Tilt motor
System Reboot = Unit Reboot without needing of turning OFF the unit

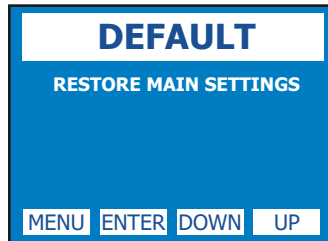


13- DISPLAY FUNCTIONS



Default

DEFAULT
To restore main settings



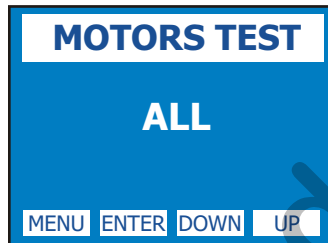
Default

To restore main settings



Motors Test

TEST MODE
Full test and single function test.



Motors Test

ALL ,PAN, TILT, DIMMER, SHUTTER,
COLOUR WHEEL, CYAN, MAGENTA,
YELLOW and FROST.



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13- DISPLAY FUNCTIONS

	<p>node</p>		<p>17CH</p>	<p>17 CHANNELS (Pan & Tilt 16 bit)</p>		<p>(DEFAULT)</p>
<p>DMX MODE To select DMX mode : 17 or 16 channels</p>			<p>16CH</p>	<p>16 CHANNELS (Pan & Tilt 16 bit)</p>		
	<p>LAMP</p>		<p>dnH</p>		<p>ON / OFF VIA DMX (default)</p>	
<p>LAMP Lamp always ON-always OFF Or lamp ON-OFF selectable via DMX</p>			<p>on</p>		<p>FORCED ON</p>	
			<p>off</p>		<p>FORCED OFF</p>	
<p>ADJUST To adjust the lamp with no mixer connected. It's possible to set the parameters for PAN-TILT and FOCUS</p>			<p>Adj</p>		<p>PAN</p>	
					<p>128</p>	
					<p>128</p>	
					<p>128</p>	
<p>STR Lamp strikes counter</p>			<p>Str</p>		<p>10</p>	
	<p>rese</p>		<p>En</p>		<p>RESET ENABLED VIA DMX</p>	
<p>RESET All motors reset</p>			<p>ds</p>		<p>RESET DISABLED VIA DMX</p>	
			<p>rese</p>		<p>TOTAL RESET</p>	
	<p>FANs</p>		<p>1</p>			
<p>Fan control To control the fan speed .</p>			<p>5</p>		<p>(DEFAULT : 5)</p>	
	<p>rotG</p>		<p>off</p>		<p>GOBO ROTATION DISABLE (DEFAULT)</p>	
<p>GOBO Rotation Gobo Rotation during gobo scrolling</p>			<p>on</p>		<p>GOBO ROTATION ENABLE</p>	
	<p>SOFT</p>		<p>2011</p>			
<p>SOFTWARE Software version</p>			<p>Pcb 8 motors. Pcb PAN&TILT</p>			

13- DISPLAY FUNCTIONS

MENU Up-Down **r5ud** ENTER

RESERVED
Pan lock-Tilt lock
Pan free-Tilt free

PAN LOCK
LOCK THE PAN TO THE DESIRED VALUE

TILT LOCK
LOCK THE TILT TO THE DESIRED VALUE

PAN FREE
REMOVE POWER TO PAN MOTOR

TILT FREE
REMOVE POWER TO TILT MOTOR

BOOT
System reboot

Up-Down **Code** 100 ENTER Up-Down

ENTER Up-Down **PnLk** no ENTER

ENTER Up-Down **YES** 128

ENTER Up-Down **tLk** no ENTER

ENTER Up-Down **YES** 128

ENTER Up-Down **PnFr** no ENTER

ENTER **YES**

ENTER Up-Down **tLFr** no ENTER

ENTER **YES**

boot **SURE** ENTER

ESC ENTER

MENU Up-Down **dfse** ENTER

DEFAULT
To restore default setting

SURE ENTER

MENU Up-Down **test** ENTER Up-Down

TEST MODE
Full test and single function test.

ALL

PAN **PAn**

TILT **tLt**

DIMMER **dI nN**

SHUTTER **SHUt**

GOBO1 **GOB1**

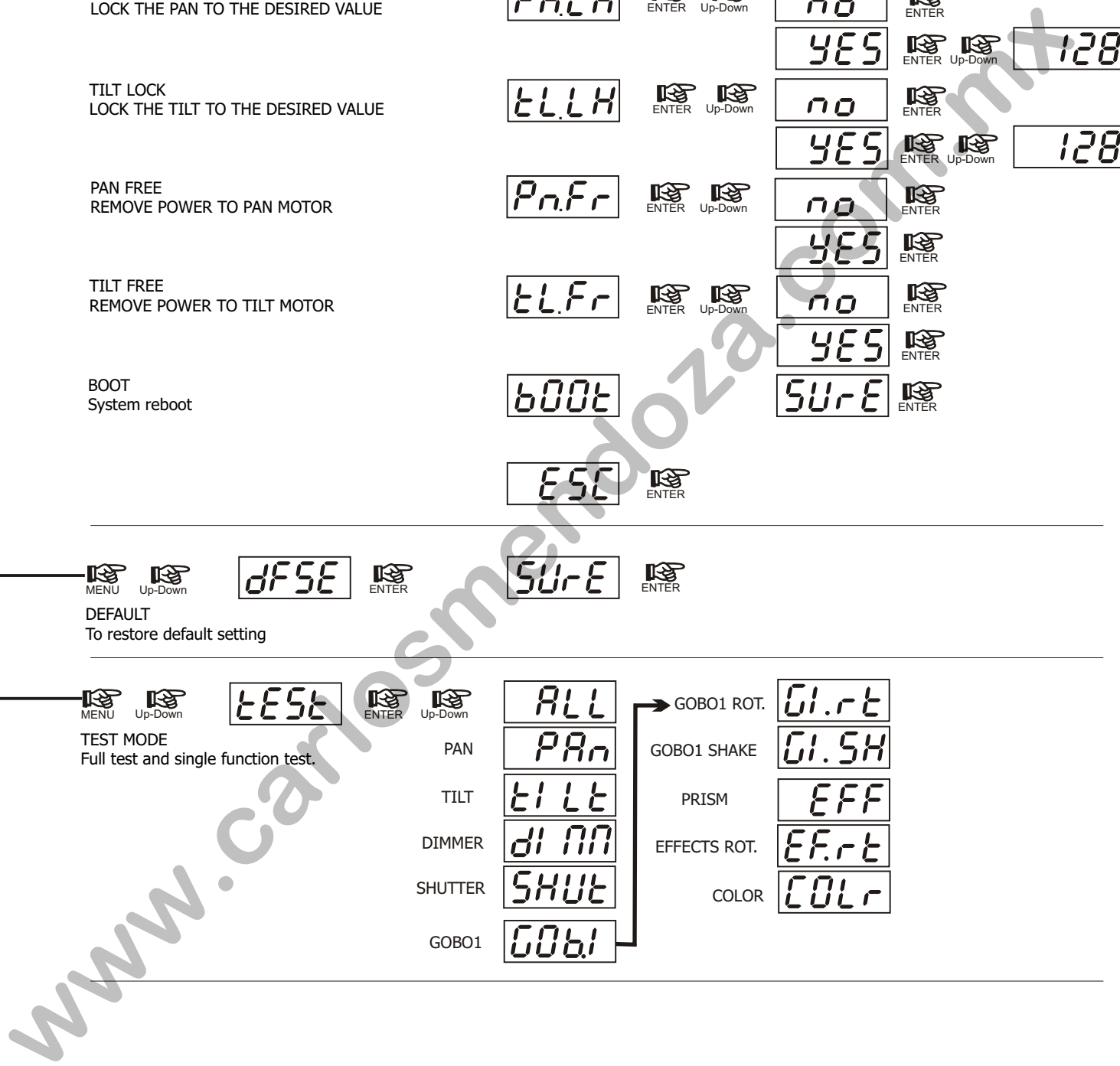
GOBO1 ROT. **GI.rt**

GOBO1 SHAKE **GI.SH**

PRISM **EFF**

EFFECTS ROT. **EF.rt**

COLOR **COLr**



14- ERROR MESSAGES

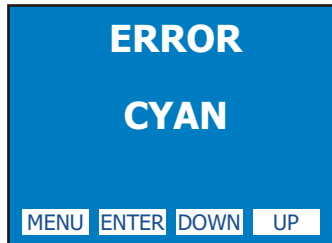
XR300 BEAM FAR E.B. (Cod. 03.MB002.EB.LF) • FAR system • CMY • Electronic ballast

XR300 BEAM FAR (Cod. 03.MB002.LF) • FAR system • CMY • Electromagnetic ballast

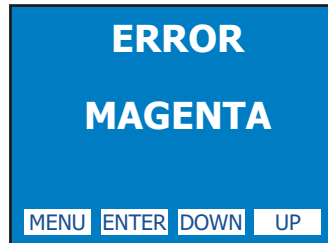
XR300 BEAM E.B. (Cod. 03.MB002.EB.L) • CMY • Electronic ballast



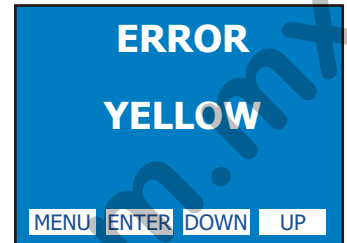
COLOUR WHEEL
POSITION ERROR



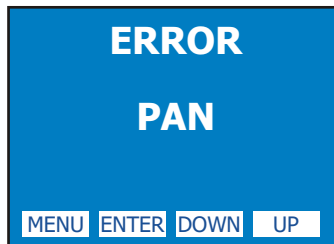
CYAN POSITION
ERROR



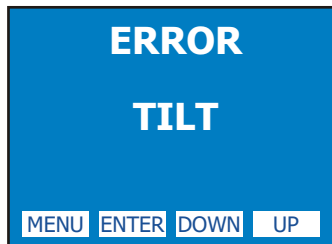
MAGENTA POSITION
ERROR



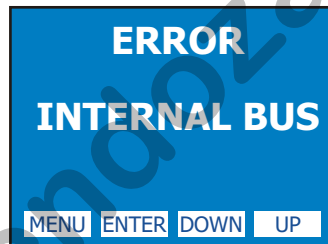
YELLOW POSITION
ERROR



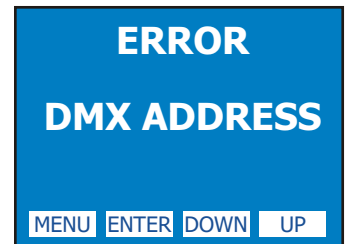
PAN REPOSITIONING
ENCODER ERROR



TILT REPOSITIONING
ENCODER ERROR



COMMUNICATION
PROBLEM BETWEEN 8
MOTORS CARD AND
PAN&TILT CARD



DMX ADDRESS
ERROR

14- ERROR MESSAGES

XR300 BEAM BF (Cod. 03.MB003.L) • Electromagnetic ballast

<code>OPeEr</code>	—	ERROR: ENCODER PAN
<code>OTeEr</code>	—	ERROR: ENCODER TILT
<code>AdEeR</code>	—	ERROR: DMX ADDRESS
<code>dtEeR</code>	—	ERROR: LOAD DATA EEPROM
<code>nbeEr</code>	—	ERROR: INTERNAL COMMUNICATION
<code>SnEeR</code>	—	ERROR: SYNCHRONIZED FREQUENCY MEASURE(SYNCHRONISM FOR LAMP ON)
<code>COEeR</code>	—	ERROR: COLOR WHEEL POSITION
<code>rGEeR</code>	—	ERROR: GOBO WHEEL POSITION
<code>iGEeR</code>	—	ERROR: GOBO WHEEL INDEX

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15- HIDDEN MENU

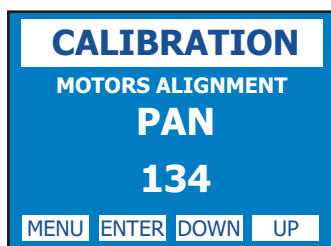
XR300 BEAM FAR E.B. (Cod. 03.MB002.EB.LF) • FAR system • CMY • Electronic ballast
 XR300 BEAM FAR (Cod. 03.MB002.LF) • FAR system • CMY • Electromagnetic ballast
 XR300 BEAM E.B. (Cod. 03.MB002.EB.L) • CMY • Electronic ballast

For technical personnel only.

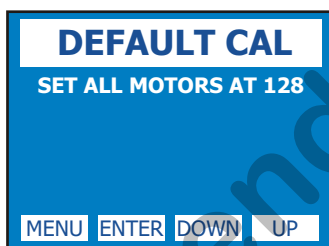
To operate this menu:

-Connect the projector to the DMX controller (DMX SIGNAL MUST BE CORRECTLY RECEIVED)

- Reset the XR300 BEAM (reset from the MENU, not from the DMX controller!).
- While reset is running, press the MENU and ENTER keys at the same time.



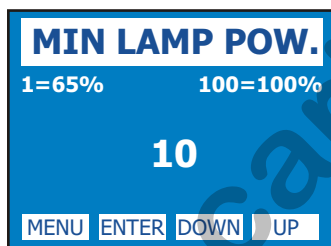
ELECTRONIC
CALIBRATION OF THE
MOTORS



RESET EEPROM.
RESET ALL SETTINGS
TO 128 VALUE



FAN SPEED WHEN
DIMMER CLOSED



LAMP POWER WHEN
DIMMER CLOSED

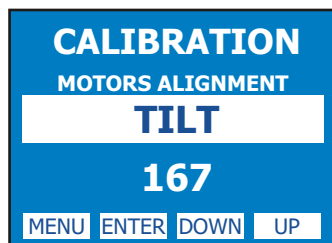


EXIT FROM HIDDEN
MENU

Calibration mode



PAN ALIGNMENT
To align Pan position



TILT ALIGNMENT
To align Tilt position



GOBO WHEEL ALIGNMENT
To align Gobo wheel



GOBO WHEEL INDEX ALIGNMENT
To align Gobo wheel Index

Calibration mode

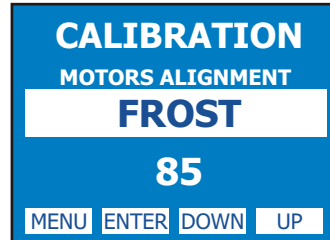
XR300 BEAM FAR E.B. (Cod. 03.MB002.EB.LF) • FAR system • CMY • Electronic ballast
 XR300 BEAM FAR (Cod. 03.MB002.LF) • FAR system • CMY • Electromagnetic ballast
 XR300 BEAM E.B. (Cod. 03.MB002.EB.L) • CMY • Electronic ballast



COLOUR WHEEL ALIGNMENT
To align Colour wheel



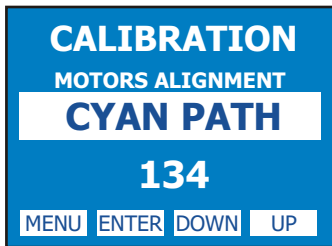
SHUTTER ALIGNMENT
To align Shutter blades



FROST ALIGNMENT
To align Frost



CYAN ZERO ALIGNMENT
Cyan zero position setting



CYAN PATH ALIGNMENT
Cyan excursion setting



MAGENTA ZERO ALIGNMENT
Magenta zero position setting



MAGENTA PATH ALIGNMENT
Magenta excursion setting



YELLOW ZERO ALIGNMENT
Yellow zero position setting



YELLOW PATH ALIGNMENT
Yellow excursion setting

18- OPENING THE PROJECTOR HOUSING

It is possible to inspect the inside of the projector by removing the cover as indicated below.

ATTENTION

REMOVE MAINS POWER PRIOR TO ACCESSING THE PROJECTOR'S INTERNAL COMPONENTS.

- 1) Loosen the 2 1/4 turn fast lock screws which fix the head covers (photo 1) .
- 3) Once unscrewed, simply lift the covers to access the internal components (photo 2).

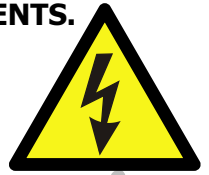


Photo 1



Photo 2

19- REPLACING GOBOS

XR300 BEAM uses a mechanical system which allows the fixture's gobos to be removed without the use of special tools. Replacement gobos should be made of either heat resistant glass or metal.

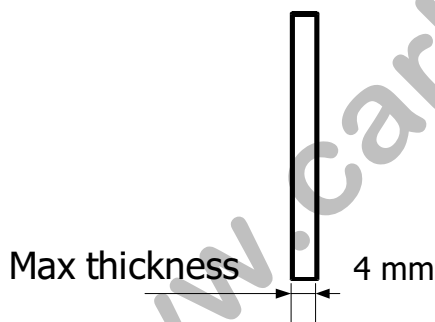
An ever-increasing range of gobos is available from your DTS sales network.

Gobo dimensions are as follows:

ø external (ED) = 27.9 mm

ø of image with defined edge (ID) = 24 mm

thickness = from 0.2 to 4 mm (see catalogue)



Coated side

When an object is held up the coated side of the glass gobo there is no space between the object and its reflection.



Coated side

Uncoated side

When an object is held up the uncoated side of the glass gobo there is a space between the object and its reflection.



Uncoated side

Load with coated surface toward the light source.

Replacing gobos on the rotating gobo wheel

When replacing gobos, ensure that the projector is switched off.

- 1) Open the projector housing as described on page 26.
- 2) Remove the gobo holder to allow easier access to the gobo (photo 1).
- 3) Release the gobo retaining spring and carefully remove the gobo (photo 2).
- 4) Reverse the procedure to install a replacement gobo.

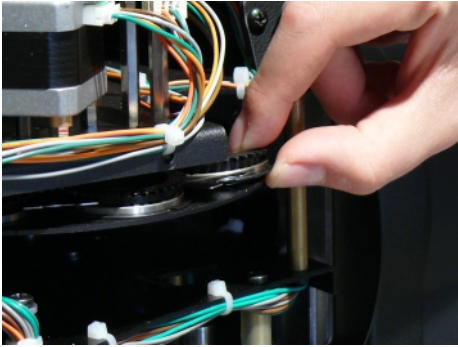


Photo 1

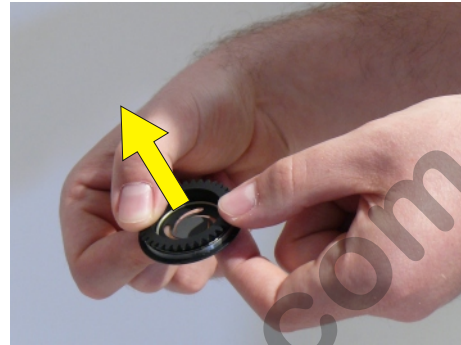


Photo 2

20- PERIODIC CLEANING

20.1- Lenses and reflectors

Even a fine layer of dust can reduce the luminous output substantially. Regularly clean all lenses and the reflector using a soft cotton cloth, dampened with a specialist lens cleaning solution.

20.2- Fans and air passages

The fans and air passages must be cleaned approximately every 6 weeks. This periodic cleaning will depend of course, on the conditions in which the projector is operating. Suitable instruments for performing this type of maintenance are a brush and a common vacuum cleaner or an air compressor. If necessary, clean the fans and air passages more frequently.

21- PERIODIC CONTROLS

Attention

Disconnect mains power prior to removing the projector housing.

Lamp

The lamp should be replaced if there is any visible damage or deformation due to heat. This will help to avoid the danger of the lamp exploding.

XR300 BEAM lamp lifespan is about 2000 hours, then it is necessary to replace it.

Mechanical parts

Periodically check all mechanical parts, gears, guides, belts, etc. for wear and tear, replacing them if necessary. Periodically check the lubrication of all components, particularly the parts subject to high temperatures. If necessary, lubricate with suitable lubricant, available from your D.T.S. distributor. Check the tension of the belts and adjust it if necessary.

Electrical components

Check all electrical components for correct earthing and proper connection of all connectors, refastening if necessary.

Fuse replacement

Locate the fuse, which protects the lamp and electronics, in the base of the XR300 BEAM. Using a multimeter, test the condition of the fuse, replacing it with one of equivalent type if necessary.



22- DMX PROTOCOL

XR300 BEAM FAR E.B. (Cod. 03.MB002.EB.LF) • FAR system • CMY • Electronic ballast
 XR300 BEAM FAR (Cod. 03.MB002.LF) • FAR system • CMY • Electromagnetic ballast
 XR300 BEAM E.B. (Cod. 03.MB002.EB.L) • CMY • Electronic ballast

23 CHANNELS MODE (DEFAULT)

- 1 PAN msb 540°
- 2 PAN lsb
- 3 TILT msb 270°
- 4 TILT lsb
- 5 SPEED MOVEMENT
- 6 PAN FAR
- 7 TILT FAR
- 8 DIMMER
- 9 SHUTTER
- 10 COLOUR
- 11 COLOUR mode
- 12 CYAN
- 13 MAGENTA
- 14 YELLOW
- 15 SPEED CMY
- 16 MACRO CMY
- 17 GOBO
- 18 GOBO MODE
- 19 GOBO ROTATION/INDEX
- 20 GOBO INDEX FINE
- 21 GOBO SHAKE
- 22 EFFECTS
- 23 RESET - LAMP

DMX CHANNEL	1	Parameter: PAN msb
-------------	---	---------------------------

DMX CHANNEL	2	Parameter: PAN lsb
-------------	---	---------------------------

DMX CHANNEL	3	Parameter: TILT msb
-------------	---	----------------------------

DMX CHANNEL	4	Parameter: TILT lsb
-------------	---	----------------------------

DMX CHANNEL	5	Parameter: SPEED MOVEMENT
-------------	---	----------------------------------

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000 - 010					Standard
011-025					Fast movement
026-127					Vector mode from fast to slow
128-247					Variable time reaction to DMX signal (fast to slow)
248-255					Slow reaction time to dmx signal

DMX CHANNEL	6	Parameter: PAN FAR
-------------	---	---------------------------

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-010					Position mode 540° (standard path)
011-020					Position mode 360° (1 turn)
021-030					Position mode 720° (2 turns)
031-040					Position mode 1080° (3 turns)
041-050					Position mode 1440° (4 turns)
051-060					Position mode 1800° (5 turns)
061-070					Position mode 2160° (6 turns)
071-080					Position mode 2520° (7 turns)
081-090					Position mode 2880° (8 turns)
091-100					Position mode 3240° (9 turns)
101-110					Position mode 3600° (10 turns)
111-120					Position mode 360° smart path
121-182					Forward spin rotation speed from max to min
183-193					Stop
194-255					Reverse spin rotation speed from min to max

DMX CHANNEL	7	Parameter: TILT FAR
-------------	---	----------------------------

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-010					Position mode 270° (standard path)
011-020					Position mode 360° (1 turn)
021-030					Position mode 720° (2 turns)
031-040					Position mode 1080° (3 turns)
041-050					Position mode 1440° (4 turns)
051-060					Position mode 1800° (5 turns)
061-070					Position mode 2160° (6 turns)
071-080					Position mode 2520° (7 turns)
081-090					Position mode 2880° (8 turns)
091-100					Position mode 3240° (9 turns)
101-110					Position mode 3600° (10 turns)
111-120					Position mode 360° smart path
121-182					Forward spin rotation speed from max to min
183-193					Stop
194-255					Reverse spin rotation speed from min to max

DMX CHANNEL	8	Parameter: DIMMER
-------------	---	--------------------------

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-7					Black-out
8-255					Proportional dimmer

DMX CHANNEL	9	Parameter: SHUTTER
-------------	---	---------------------------

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-019					Black - out
020-039					Open
040-059					Black-out
060-079					Random Strobe
080-089					Strobe speed 1 min. (0,85 Hz)
090-099					Strobe speed 2 (1,4 Hz)
100-109					Strobe speed 3 (2 HZ)
110-119					Strobe speed 4 (3,75 Hz)
120-129					Strobe speed 5 (5 Hz)
130-139					Strobe speed 6 max. (6,75 Hz)
140-149					Pulse open speed 1 min.
150-159					Pulse open speed 2
160-169					Pulse open speed 3
170-179					Pulse open speed 4 max.
180-189					Pulse closed speed 1 min.
190-199					Pulse closed speed 2
200-209					Pulse closed speed 3
210-219					Pulse closed speed 4 max.
220-227					Colour and Gobo in black-out
228-233					Pan and Tilt in black-out
234-255					Open

DMX CHANNEL	10	Parameter: COLOUR
-------------	----	--------------------------

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
IF CHANNEL 11 = FULL COLOUR (Dmx range value 0 - 63)					
0-27					Colour1 (White)
28-55					Colour2
56-83					Colour3
84-111					Colour4
112-139					Colour5
140-167					Colour6
168-195					Colour7
196-223					Colour8
224-255					Colour9

DMX CHANNEL	10	Parameter: COLOUR
-------------	-----------	--------------------------

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
IF CHANNEL 11 = HALF COLOUR (Dmx range value 64 - 127)					
0-25					Colour1 (White)
26-51					Bicolour 1/2
52-77					Bicolour 2/3
78-103					Bicolour 3/4
104-129					Bicolour 4/5
130-155					Bicolour 5/6
156-181					Bicolour 6/7
182-207					Bicolour 7/8
208-233					Bicolour 8/9
234-255					Bicolour 9/1
IF CHANNEL 11 = PROPORTIONAL COLOUR (Dmx range value 128 - 191)					
0-10					Colour1 (White)
11-255					Proportional colour
IF CHANNEL 11 = RAINBOW (Dmx range value 192 - 255)					
0-9					No Colour (White)
10-127					Right Rot.Speed from Max to Min
128-137					Stop
138-255					Left Rot.speed from Min to Max

DMX CHANNEL	11	Parameter: COLOUR MODE
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000 - 063					Full colour
064 - 127					Half colour
128 - 191					Proportional colour
192 - 255					Rainbow

DMX CHANNEL	12	Parameter: CYAN
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000 - 255					Proportional colour

DMX CHANNEL	13	Parameter: MAGENTA
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000 - 255					Proportional colour

DMX CHANNEL	14	Parameter: YELLOW
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000 - 255					Proportional colour

DMX CHANNEL	15	Parameter: SPEED CMY
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000 - 007					No function
008 - 255					Variabile speed from max to min

DMX CHANNEL	16	Parameter: MACRO CMY
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000 - 009					No function
010 - 014					Macro 1
015 - 019					Macro 2
020 - 024					Macro 3
025 - 029					Macro 4
030 - 034					Macro 5
035 - 039					Macro6
040 - 044					Macro 7
045 - 049					Macro 8
050 - 054					Macro 9
055 - 059					Macro 10
060 - 064					Macro11
065 - 069					Macro 12
070 - 074					Macro 13
075 - 079					Macro 14
080 - 084					Macro 15
085 - 089					Macro 16
090 - 094					Macro17
095 - 099					Macro 18
100-104					Macro 19
105-109					Macro 20
110-114					Macro 21
115-121					Macro rainbow wait = 0
122-128					Macro rainbow wait = 2
129-135					Macro rainbow wait = 3
136-142					Macro rainbow wait = 4
143-149					Macro rainbow wait = 5
150-156					Macro rainbow wait = 6
157-163					Macro rainbow wait = 7
164-170					Macro rainbow wait = 8
171-177					Macro rainbow wait = 9

DMX CHANNEL	16	Parameter: MACRO CMY
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
178-185					Macro rainbow wait = 10
186-192					Full colours rainbow = 0
193-199					Full colours rainbow = 2
200-206					Full colours rainbow = 3
207-213					Full colours rainbow = 4
114-220					Full colours rainbow = 5
221-227					Full colours rainbow = 6
228-234					Full colours rainbow = 7
235-241					Full colours rainbow = 8
242-248					Full colours rainbow = 9
249-255					Full colours rainbow = 10

DMX CHANNEL	17	Parameter: GOBO
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-25					Open
26-51					Gobo 1
52-77					Gobo 2
78-103					Gobo 3
104-129					Gobo 4
130-155					Gobo 5
156-181					Gobo 6
182-207					Gobo 7
208-213					Rotation speed 1 min.
214-219					Rotation speed 2
220-225					Rotation speed 3
226-231					Rotation speed 4
232-237					Rotation speed 5
238-243					Rotation speed 6
244-249					Rotation speed 7
250-255					Rotation speed 8 Max

DMX CHANNEL	18	Parameter: GOBO MODE
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-127					Gobo Rotation Mode
128-255					Gobo Index Mode

DMX CHANNEL	19	Parameter: GOBO ROTATION/GOBO INDEX COARSE
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
IF CHANNEL 18 = Gobo Rotation Mode (Dmx range value 0 - 127)					
0-9					Stop
10-127					SX Rot. Prop. Speed Max to Min
128-137					Stop
138-255					DX Rot. Prop. Speed Min to Max
IF CHANNEL 18 = Gobo Index Mode (Dmx range value 128 - 255)					
0-255					Gobo index Coarse

DMX CHANNEL	20	Parameter: GOBO INDEX FINE
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Gobo Index Fine

DMX CHANNEL	21	Parameter: GOBO 1 SHAKE
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9					Stop
10-22					Gobo Shake R-L Speed 1 Min.
23-35					Gobo Shake R-L Speed 2
36-48					Gobo Shake R-L Speed 3
49-61					Gobo Shake R-L Speed 4
62-74					Gobo Shake R-L Speed 5
75-87					Gobo Shake R-L Speed 6
88-100					Gobo Shake R-L Speed 7
101-113					Gobo Shake R-L Speed 8
114-126					Gobo Shake R-L Speed 9 Max
127-138					Stop
139-151					Gobo Shake L-R Speed 1 Min
152-164					Gobo Shake L-R Speed 2
165-177					Gobo Shake L-R Speed 3
178-190					Gobo Shake L-R Speed 4
191-203					Gobo Shake L-R Speed 5
204-216					Gobo Shake L-R Speed 6
217-229					Gobo Shake L-R Speed 7
230-242					Gobo Shake L-R Speed 8
243-255					Gobo Shake L-R Speed 9 Max

DMX CHANNEL	22	Parameter: EFFECTS
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-009					No function
010-029					Diffuser
030-245					Linear Frost
246-255					Frost fully inserted

DMX CHANNEL	23	Parameter: RESET / LAMP
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9					No Effect
10-60					Lamp OFF (activ.after 3 seconds)
61-129					No Effect
130-179					Lamp ON (activ.after 3 seconds)
180-200					No Effect
201-239					Internal motor reset
240-255					Total Reset

23 DMX PROTOCOL

XR300 BEAM FAR E.B. (Cod. 03.MB002.EB.LF) • FAR system • CMY • Electronic ballast
 XR300 BEAM FAR (Cod. 03.MB002.LF) • FAR system • CMY • Electromagnetic ballast
 XR300 BEAM E.B. (Cod. 03.MB002.EB.L) • CMY • Electronic ballast

18 CHANNELS MODE

- 1 PAN msb 540°
- 2 PAN lsb
- 3 TILT msb 270°
- 4 TILT lsb
- 5 SPEED MOVEMENT
- 6 PAN FAR
- 7 TILT FAR
- 8 DIMMER
- 9 SHUTTER
- 10 COLOUR
- 11 CYAN
- 12 MAGENTA
- 13 YELLOW
- 14 GOBO
- 15 GOBO ROTATION/INDEX
- 16 GOBO SHAKE
- 17 EFFECTS
- 18 RESET - LAMP

DMX CHANNEL	1	Parameter: PAN msb
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DMX CHANNEL	2	Parameter: PAN lsb
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DMX CHANNEL	3	Parameter: TILT msb
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DMX CHANNEL	4	Parameter: TILT lsb
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DMX CHANNEL	5	Parameter: SPEED MOVEMENT
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-10					Standard
11-25					Fast movement
26-127					Vector mode from fast to slow
128-247					Variable time reaction to DMX signal (fast to slow)
248-255					Slow reaction time to dmx signal

DMX CHANNEL	6	Parameter: PAN FAR
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-010					Position mode 540° (standard path)
011-020					Position mode 360° (1 turn)
021-030					Position mode 720° (2 turns)
031-040					Position mode 1080° (3 turns)
041-050					Position mode 1440° (4 turns)
051-060					Position mode 1800° (5 turns)
061-070					Position mode 2160° (6 turns)
071-080					Position mode 2520° (7 turns)
081-090					Position mode 2880° (8 turns)
091-100					Position mode 3240° (9 turns)
101-110					Position mode 3600° (10 turns)
111-120					Position mode 360° smart path
121-182					Forward spin rotation speed from max to min
183-193					Stop
194-255					Reverse spin rotation speed from min to max

DMX CHANNEL	7	Parameter: TILT FAR
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-010					Position mode 270° (standard path)
011-020					Position mode 360° (1 turn)
021-030					Position mode 720° (2 turns)
031-040					Position mode 1080° (3 turns)
041-050					Position mode 1440° (4 turns)
051-060					Position mode 1800° (5 turns)
061-070					Position mode 2160° (6 turns)
071-080					Position mode 2520° (7 turns)
081-090					Position mode 2880° (8 turns)
091-100					Position mode 3240° (9 turns)
101-110					Position mode 3600° (10 turns)
111-120					Position mode 360° smart path
121-182					Forward spin rotation speed from max to min
183-193					Stop
194-255					Reverse spin rotation speed from min to max

DMX CHANNEL	8	Parameter: DIMMER
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-7					Black-out
8-255					Proportional dimmer

DMX CHANNEL	9	Parameter: SHUTTER			
DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-19					Black - out
20-39					Open
40-59					Black-out
60-79					Random Strobe
80-89					Strobe speed 1 min. (0,85 Hz)
90-99					Strobe speed 2 (1,4 Hz)
100-109					Strobe speed 3 (2 HZ)
110-119					Strobe speed 4 (3,75 Hz)
120-129					Strobe speed 5 (5 Hz)
130-139					Strobe speed 6 max. (6,75 Hz)
140-149					Pulse open speed 1 min.
150-159					Pulse open speed 2
160-169					Pulse open speed 3
170-179					Pulse open speed 4 max.
180-189					Pulse closed speed 1 min.
190-199					Pulse closed speed 2
200-209					Pulse closed speed 3
210-219					Pulse closed speed 4 max.
220-227					Colour and Gobo in black-out
228-233					Pan and Tilt in black -out
234-255					Open

DMX CHANNEL	10	Parameter: COLOUR			
DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-12					Colour1 (White)
13-25					Colour 2 (HALF CTO)
26-38					Colour 3 (CTO)
39-51					Colour 4
52-64					Colour 4/5
65-77					Colour 5
78-90					Colour 5/6

DMX CHANNEL	10	Parameter: COLOUR			
DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
091 - 103					Colour 6
104 - 116					Colour 6/7
117 - 129					Colour 7
130 - 142					Colour 7/8
143 - 155					Colour 8
156 - 168					Colour 8/9
169 - 181					Colour 9
182 - 197					Colour 9/1
198 - 200					Right rotation speed 9 Max
201 - 203					Right rotation speed 8
204 - 206					Right rotation speed 7
207 - 209					Right rotation speed 6
210 - 212					Right rotation speed 5
213 - 215					Right rotation speed 4
216 - 218					Right rotation speed 3
219 - 221					Right rotation speed 2
222 - 224					Right rotation speed 1Min
225 - 228					Stop
229 - 231					Left rotation speed 1 Min
232 - 234					Left rotation speed 2
235 - 237					Left rotation speed 3
238 - 240					Left rotation speed 4
241 - 243					Left rotation speed 5
244 - 246					Left rotation speed 6
247 - 249					Left rotation speed 7
250 - 252					Left rotation speed 8
253 - 255					Left rotation speed 9 Max

DMX CHANNEL	11	Parameter: CYAN			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	12	Parameter: MAGENTA			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	13	Parameter: YELLOW
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000 - 255					Proportional colour

DMX CHANNEL	14	Parameter: GOBO
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-025					Open
026-051					Gobo 1
052-077					Gobo 2
078-103					Gobo 3
104-129					Gobo 4
130-155					Gobo 5
156-181					Gobo 6
182-207					Gobo 7
208-213					Rotation speed 1 min.
214-219					Rotation speed 2
220-225					Rotation speed 3
226-231					Rotation speed 4
232-237					Rotation speed 5
238-243					Rotation speed 6
244-249					Rotation speed 7
250-255					Rotation speed 8 Max

DMX CHANNEL	15	Parameter: GOBO ROTATION/INDEX
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000 - 127					Proportional index 0° - 360°
128 - 180					Left rotation
181 - 202					Stop
203 - 255					Right rotation

DMX CHANNEL	16	Parameter: GOBO SHAKE
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9					Stop
10-22					Gobo Shake R-L Speed 1 Min.
23-35					Gobo Shake R-L Speed 2
36-48					Gobo Shake R-L Speed 3
49-61					Gobo Shake R-L Speed 4
62-74					Gobo Shake R-L Speed 5

DMX CHANNEL	16	Parameter: GOBO SHAKE
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
075-087					Gobo Shake R-L Speed 6
088-100					Gobo Shake R-L Speed 7
101-113					Gobo Shake R-L Speed 8
114-126					Gobo Shake R-L Speed 9 Max
127-138					Stop
139-151					Gobo Shake L-R Speed 1 Min
152-164					Gobo Shake L-R Speed 2
165-177					Gobo Shake L-R Speed 3
178-190					Gobo Shake L-R Speed 4
191-203					Gobo Shake L-R Speed 5
204-216					Gobo Shake L-R Speed 6
217-229					Gobo Shake L-R Speed 7
230-242					Gobo Shake L-R Speed 8
243-255					Gobo Shake L-R Speed 9 Max

DMX CHANNEL	17	Parameter: EFFECTS
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-009					No function
010-029					Diffuser
030-245					Linear Frost
246-255					Frost fully inserted

DMX CHANNEL	18	Parameter: RESET / LAMP
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9					No Effect
10-60					Lamp OFF (activ.after 3 seconds)
61-129					No Effect
130-179					Lamp ON (activ.after 3 seconds)
180-200					No Effect
201-239					Internal motor reset
240-255					Total Reset

23 DMX PROTOCOL

XR300 BEAM BF (Cod. 03.MB003.L) • Electromagnetic ballast

17 CHANNELS MODE (DEFAULT)

- 1 PAN msb 540°
- 2 PAN lsb
- 3 TILT msb 270°
- 4 TILT lsb
- 5 SPEED MOVEMENT
- 6 DIMMER
- 7 SHUTTER
- 8 COLOUR
- 9 COLOUR mode
- 10 CTO
- 11 GOBO
- 12 GOBO MODE
- 13 GOBO ROTATION/INDEX
- 14 GOBO INDEX FINE
- 15 GOBO SHAKE
- 16 FROST
- 17 RESET - LAMP

DMX CHANNEL	1	Parameter: PAN msb
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DMX CHANNEL	2	Parameter: PAN lsb
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DMX CHANNEL	3	Parameter: TILT msb
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DMX CHANNEL	4	Parameter: TILT lsb
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DMX CHANNEL	5	Parameter: SPEED MOVEMENT
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000 - 010					Standard
011-025					Fast movement
026-127					Vector mode from fast to slow
128-247					Variable time reaction to DMX signal (fast to slow)
248-255					Slow reaction time to dmx signal

DMX CHANNEL	6	Parameter: DIMMER
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-7					Black-out
8-255					Proportional dimmer

DMX CHANNEL	7	Parameter: SHUTTER
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-019					Black - out
020-039					Open
040-059					Black-out
060-079					Random Strobe
080-089					Strobe speed 1 min. (0,85 Hz)
090-099					Strobe speed 2 (1,4 Hz)
100-109					Strobe speed 3 (2 HZ)
110-119					Strobe speed 4 (3,75 Hz)
120-129					Strobe speed 5 (5 Hz)
130-139					Strobe speed 6 max. (6,75 Hz)
140-149					Pulse open speed 1 min.
150-159					Pulse open speed 2
160-169					Pulse open speed 3
170-179					Pulse open speed 4 max.
180-189					Pulse closed speed 1 min.
190-199					Pulse closed speed 2
200-209					Pulse closed speed 3
210-219					Pulse closed speed 4 max.
220-227					Colour and Gobo in black-out
228-233					Pan and Tilt in black-out
234-255					Open

DMX CHANNEL	8	Parameter: COLOUR
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
IF CHANNEL 9 = FULL COLOUR (Dmx range value 0 - 63)					
0-27					Colour1 (White)
28-55					Colour2
56-83					Colour3
84-111					Colour4
112-139					Colour5
140-167					Colour6
168-195					Colour7
196-223					Colour8
224-255					Colour9

DMX CHANNEL	8	Parameter: COLOUR			
DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
IF CHANNEL 9 = HALF COLOUR (Dmx range value 64 - 127)					
0-25					Colour1 (White)
26-51					Bicolour 1/2
52-77					Bicolour 2/3
78-103					Bicolour 3/4
104-129					Bicolour 4/5
130-155					Bicolour 5/6
156-181					Bicolour 6/7
182-207					Bicolour 7/8
208-233					Bicolour 8/9
234-255					Bicolour 9/1
IF CHANNEL 9 = PROPORTIONAL COLOUR (Dmx range value 128 - 191)					
0-10					Colour1 (White)
11-255					Proportional colour
IF CHANNEL 9 = RAINBOW (Dmx range value 192 - 255)					
0-9					No Colour (White)
10-127					Right Rot.Speed from Max to Min
128-137					Stop
138-255					Left Rot.speed from Min to Max

DMX CHANNEL	9	Parameter: COLOUR MODE			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000 - 063					Full colour
064 - 127					Half colour
128 - 191					Proportional colour
192 - 255					Rainbow

DMX CHANNEL	10	Parameter: CTO			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000 - 127					No Function
128 - 255					CTO

DMX CHANNEL	11	Parameter: GOBO
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-25					Open
26-51					Gobo 1
52-77					Gobo 2
78-103					Gobo 3
104-129					Gobo 4
130-155					Gobo 5
156-181					Gobo 6
182-207					Gobo 7
208-213					Rotation speed 1 min.
214-219					Rotation speed 2
220-225					Rotation speed 3
226-231					Rotation speed 4
232-237					Rotation speed 5
238-243					Rotation speed 6
244-249					Rotation speed 7
250-255					Rotation speed 8 Max

DMX CHANNEL	12	Parameter: GOBO MODE
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-127					Gobo Rotation Mode
128-255					Gobo Index Mode

DMX CHANNEL	13	Parameter: GOBO ROTATION/GOBO INDEX COARSE
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
IF CHANNEL 12 = Gobo Rotation Mode (Dmx range value 0 - 127)					
0-9					Stop
10-127					SX Rot. Prop. Speed Max to Min
128-137					Stop
138-255					DX Rot. Prop. Speed Min to Max
IF CHANNEL 12 = Gobo Index Mode (Dmx range value 128 - 255)					
0-255					Gobo index Coarse

DMX CHANNEL	14	Parameter: GOBO INDEX FINE
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Gobo Index Fine

DMX CHANNEL	15	Parameter: GOBO SHAKE
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9					Stop
10-22					Gobo Shake R-L Speed 1 Min.
23-35					Gobo Shake R-L Speed 2
36-48					Gobo Shake R-L Speed 3
49-61					Gobo Shake R-L Speed 4
62-74					Gobo Shake R-L Speed 5
75-87					Gobo Shake R-L Speed 6
88-100					Gobo Shake R-L Speed 7
101-113					Gobo Shake R-L Speed 8
114-126					Gobo Shake R-L Speed 9 Max
127-138					Stop
139-151					Gobo Shake L-R Speed 1 Min
152-164					Gobo Shake L-R Speed 2
165-177					Gobo Shake L-R Speed 3
178-190					Gobo Shake L-R Speed 4
191-203					Gobo Shake L-R Speed 5
204-216					Gobo Shake L-R Speed 6
217-229					Gobo Shake L-R Speed 7
230-242					Gobo Shake L-R Speed 8
243-255					Gobo Shake L-R Speed 9 Max

DMX CHANNEL	16	Parameter: FROST
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-029					No function
030-245					Linear Frost
246-255					Frost fully inserted

DMX CHANNEL	17	Parameter: RESET / LAMP
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9					No Effect
10-60					Lamp OFF (activ.after 3 seconds)
61-129					No Effect
130-179					Lamp ON (activ.after 3 seconds)
180-200					No Effect
201-239					Internal motor reset
240-255					Total Reset

23 DMX PROTOCOL

XR300 BEAM BF (Cod. 03.MB003.L) • Electromagnetic ballast

16 CHANNELS MODE

- 1 PAN msb 540°
- 2 PAN lsb
- 3 TILT msb 270°
- 4 TILT lsb
- 5 SPEED MOVEMENT
- 6 DIMMER
- 7 SHUTTER
- 8 COLOUR
- 9 COLOUR mode
- 10 GOBO
- 11 GOBO MODE
- 12 GOBO ROTATION/INDEX
- 13 GOBO INDEX FINE
- 14 GOBO SHAKE
- 15 FROST
- 16 RESET - LAMP

DMX CHANNEL	1	Parameter: PAN msb
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DMX CHANNEL	2	Parameter: PAN lsb
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DMX CHANNEL	3	Parameter: TILT msb
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DMX CHANNEL	4	Parameter: TILT lsb
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DMX CHANNEL	5	Parameter: SPEED MOVEMENT
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000 - 010					Standard
011-025					Fast movement
026-127					Vector mode from fast to slow
128-247					Variable time reaction to DMX signal (fast to slow)
248-255					Slow reaction time to dmx signal

DMX CHANNEL	6	Parameter: DIMMER
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-7					Black-out
8-255					Proportional dimmer

DMX CHANNEL	7	Parameter: SHUTTER
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-019					Black - out
020-039					Open
040-059					Black-out
060-079					Random Strobe
080-089					Strobe speed 1 min. (0,85 Hz)
090-099					Strobe speed 2 (1,4 Hz)
100-109					Strobe speed 3 (2 HZ)
110-119					Strobe speed 4 (3,75 Hz)
120-129					Strobe speed 5 (5 Hz)
130-139					Strobe speed 6 max. (6,75 Hz)
140-149					Pulse open speed 1 min.
150-159					Pulse open speed 2
160-169					Pulse open speed 3
170-179					Pulse open speed 4 max.
180-189					Pulse closed speed 1 min.
190-199					Pulse closed speed 2
200-209					Pulse closed speed 3
210-219					Pulse closed speed 4 max.
220-227					Colour and Gobo in black-out
228-233					Pan and Tilt in black-out
234-255					Open

DMX CHANNEL	8	Parameter: COLOUR
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
IF CHANNEL 9 = FULL COLOUR (Dmx range value 0 - 63)					
0-27					Colour1 (White)
28-55					Colour2
56-83					Colour3
84-111					Colour4
112-139					Colour5
140-167					Colour6
168-195					Colour7
196-223					Colour8
224-255					Colour9

DMX CHANNEL	8	Parameter: COLOUR			
DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
IF CHANNEL 9 = HALF COLOUR (Dmx range value 64 - 127)					
0-25					Colour1 (White)
26-51					Bicolour 1/2
52-77					Bicolour 2/3
78-103					Bicolour 3/4
104-129					Bicolour 4/5
130-155					Bicolour 5/6
156-181					Bicolour 6/7
182-207					Bicolour 7/8
208-233					Bicolour 8/9
234-255					Bicolour 9/1
IF CHANNEL 9 = PROPORTIONAL COLOUR (Dmx range value 128 - 191)					
0-10					Colour1 (White)
11-255					Proportional colour
IF CHANNEL 9 = RAINBOW (Dmx range value 192 - 255)					
0-9					No Colour (White)
10-127					Right Rot.Speed from Max to Min
128-137					Stop
138-255					Left Rot.speed from Min to Max

DMX CHANNEL	9	Parameter: COLOUR MODE			
DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000 - 063					Full colour
064 - 127					Half colour
128 - 191					Proportional colour
192 - 255					Rainbow

DMX CHANNEL	10	Parameter: GOBO
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-25					Open
26-51					Gobo 1
52-77					Gobo 2
78-103					Gobo 3
104-129					Gobo 4
130-155					Gobo 5
156-181					Gobo 6
182-207					Gobo 7
208-213					Rotation speed 1 min.
214-219					Rotation speed 2
220-225					Rotation speed 3
226-231					Rotation speed 4
232-237					Rotation speed 5
238-243					Rotation speed 6
244-249					Rotation speed 7
250-255					Rotation speed 8 Max

DMX CHANNEL	11	Parameter: GOBO MODE
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-127					Gobo Rotation Mode
128-255					Gobo Index Mode

DMX CHANNEL	12	Parameter: GOBO ROTATION/GOBO INDEX COARSE
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
IF CHANNEL 11 = Gobo Rotation Mode (Dmx range value 0 - 127)					
0-9					Stop
10-127					SX Rot. Prop. Speed Max to Min
128-137					Stop
138-255					DX Rot. Prop. Speed Min to Max
IF CHANNEL 11 = Gobo Index Mode (Dmx range value 128 - 255)					
0-255					Gobo index Coarse

DMX CHANNEL	13	Parameter: GOBO INDEX FINE
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Gobo Index Fine

DMX CHANNEL	14	Parameter: GOBO SHAKE
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9					Stop
10-22					Gobo Shake R-L Speed 1 Min.
23-35					Gobo Shake R-L Speed 2
36-48					Gobo Shake R-L Speed 3
49-61					Gobo Shake R-L Speed 4
62-74					Gobo Shake R-L Speed 5
75-87					Gobo Shake R-L Speed 6
88-100					Gobo Shake R-L Speed 7
101-113					Gobo Shake R-L Speed 8
114-126					Gobo Shake R-L Speed 9 Max
127-138					Stop
139-151					Gobo Shake L-R Speed 1 Min
152-164					Gobo Shake L-R Speed 2
165-177					Gobo Shake L-R Speed 3
178-190					Gobo Shake L-R Speed 4
191-203					Gobo Shake L-R Speed 5
204-216					Gobo Shake L-R Speed 6
217-229					Gobo Shake L-R Speed 7
230-242					Gobo Shake L-R Speed 8
243-255					Gobo Shake L-R Speed 9 Max

DMX CHANNEL	15	Parameter: FROST
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-029					No function
030-245					Linear Frost
246-255					Frost fully inserted

DMX CHANNEL	16	Parameter: RESET / LAMP
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9					No Effect
10-60					Lamp OFF (activ.after 3 seconds)
61-129					No Effect
130-179					Lamp ON (activ.after 3 seconds)
180-200					No Effect
201-239					Internal motor reset
240-255					Total Reset

23- 8 MOTORS CONTROL CARD

8 MOTORS CONTROL CARD

J7 Magnetic Sensors Connector

Line 1 Brown:
Line 2 Orange:

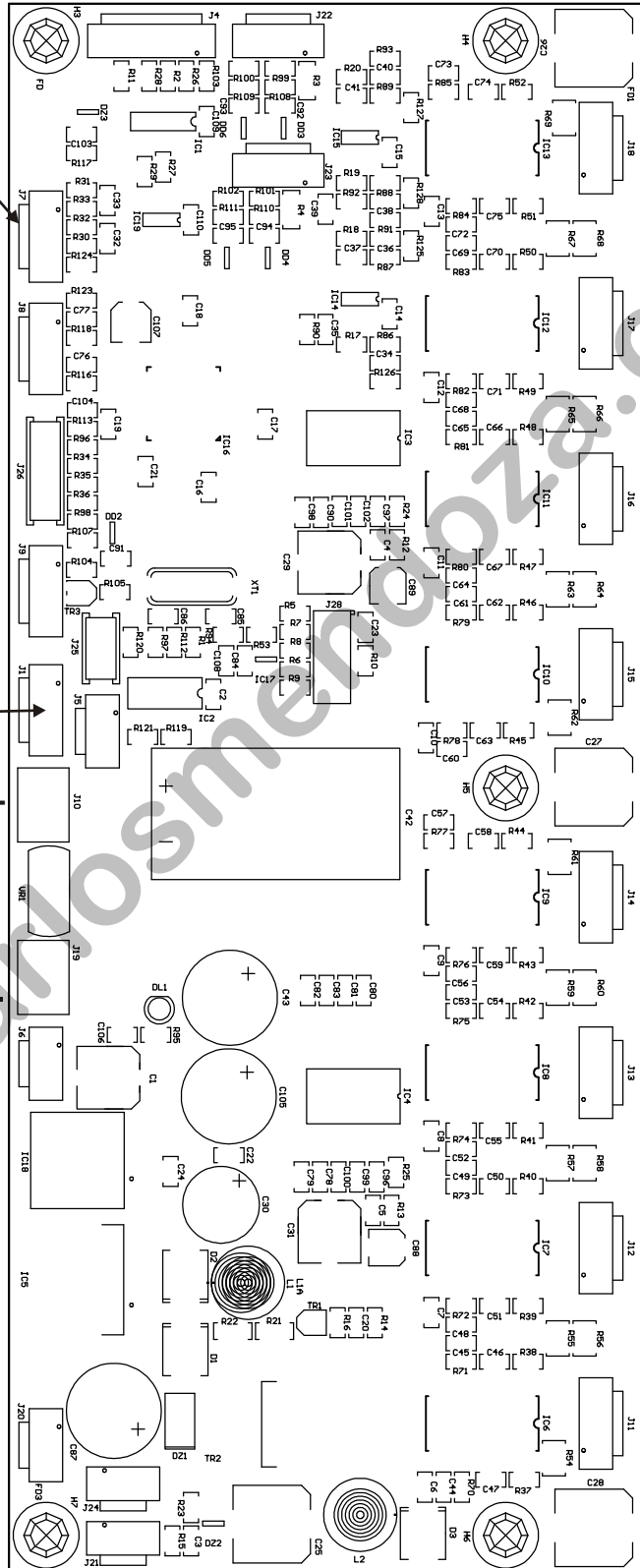
GND
ORANGE
BROWN
VCC

J1 Internal DATA Communication Connector From J8 Pan & Tilt card

30 VDC

Fans

Fans



Gobo
(BLACK)

RotGobo
(DARK GREEN)

Strobe
(YELLOW)

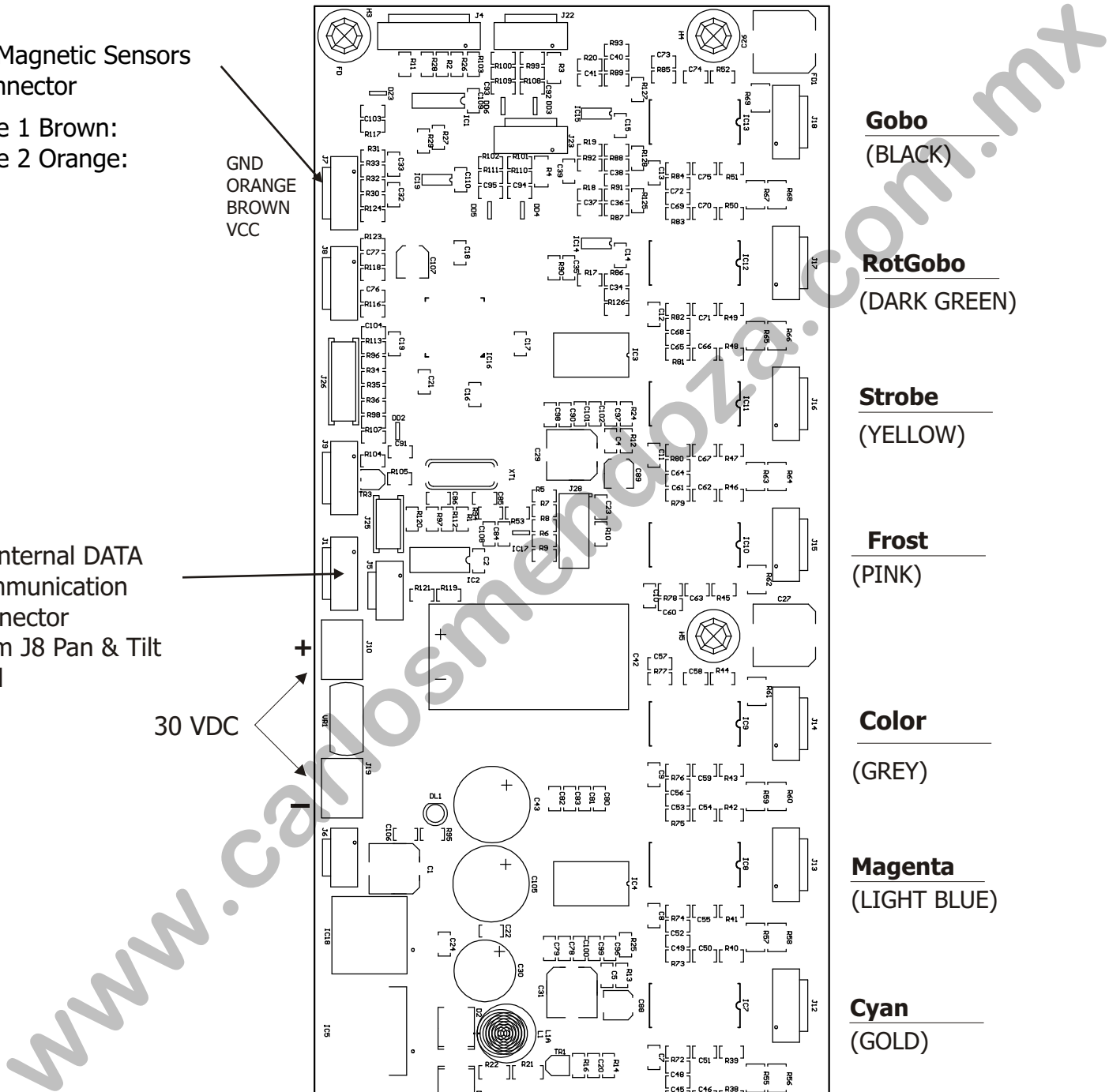
Frost
(PINK)

Color
(GREY)

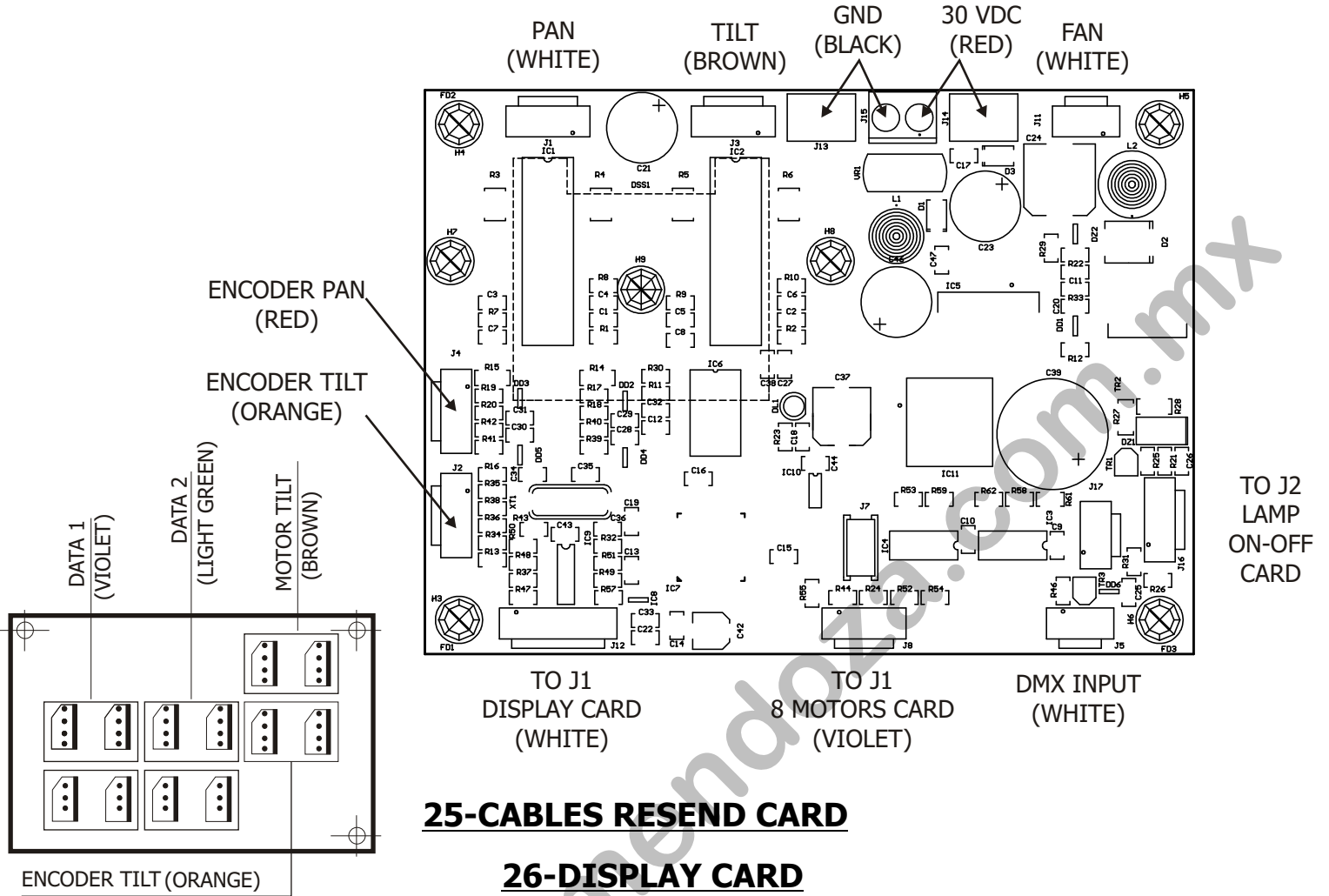
Magenta
(LIGHT BLUE)

Cyan
(GOLD)

Yellow
(BLUE)

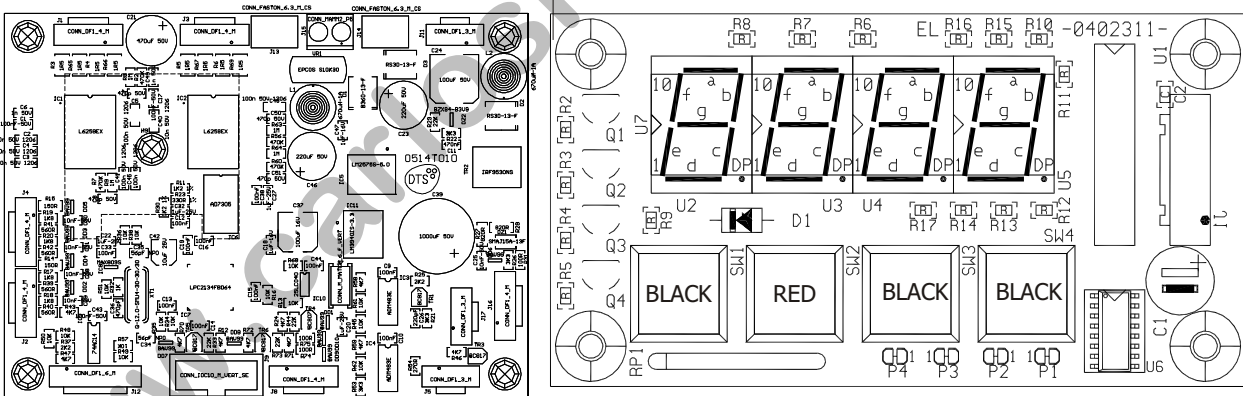


24-PAN & TILT CARD

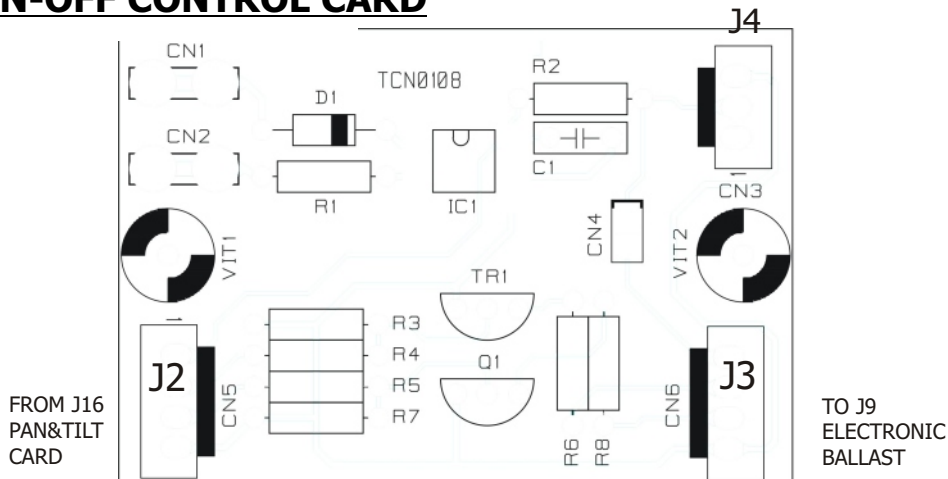


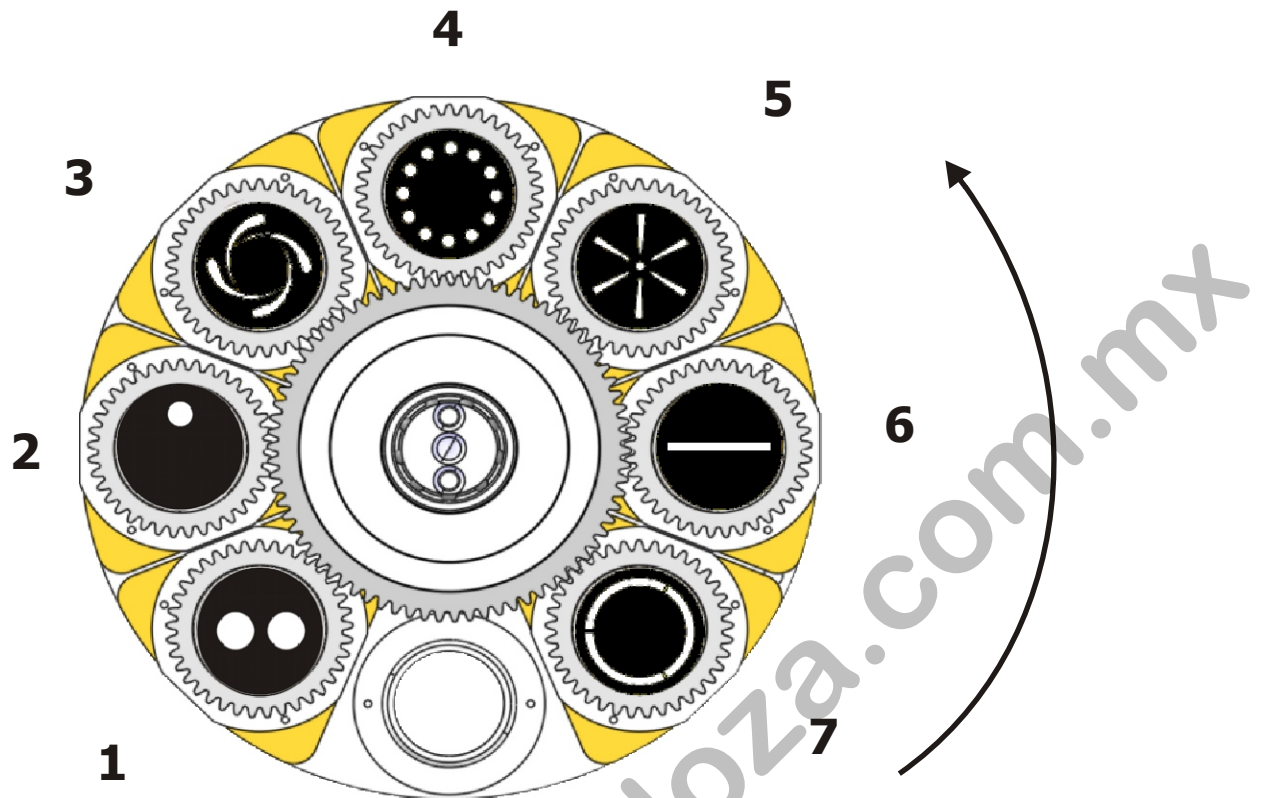
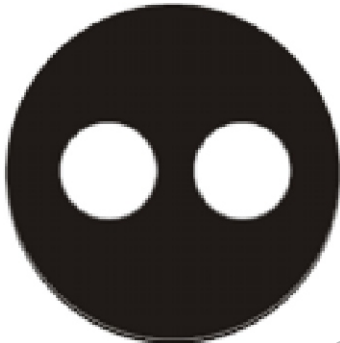
25-CABLES RESEND CARD

26-DISPLAY CARD



27-LAMP ON-OFF CONTROL CARD



28- ROTATING GOBO WHEEL**GOBO 1 METAL**

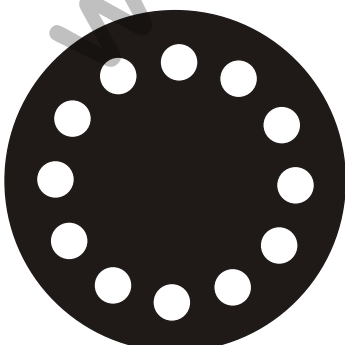
0516G033.01

GOBO 2 METAL

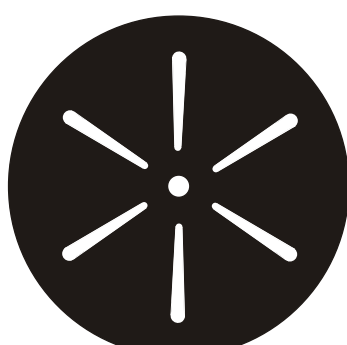
0516G033.02

GOBO 3 METAL

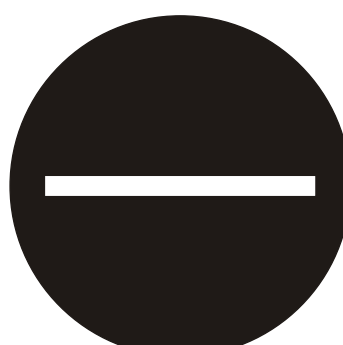
0516G033.03

GOBO 4 METAL

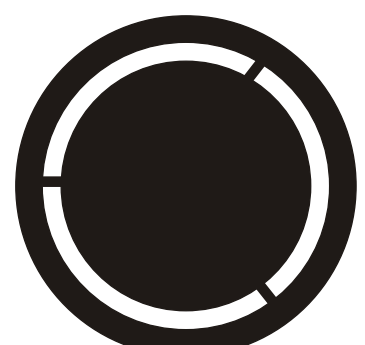
0516G033.04

GOBO 5 METAL

0516G033.05

GOBO 6 METAL

0516G033.06

GOBO 7 METAL

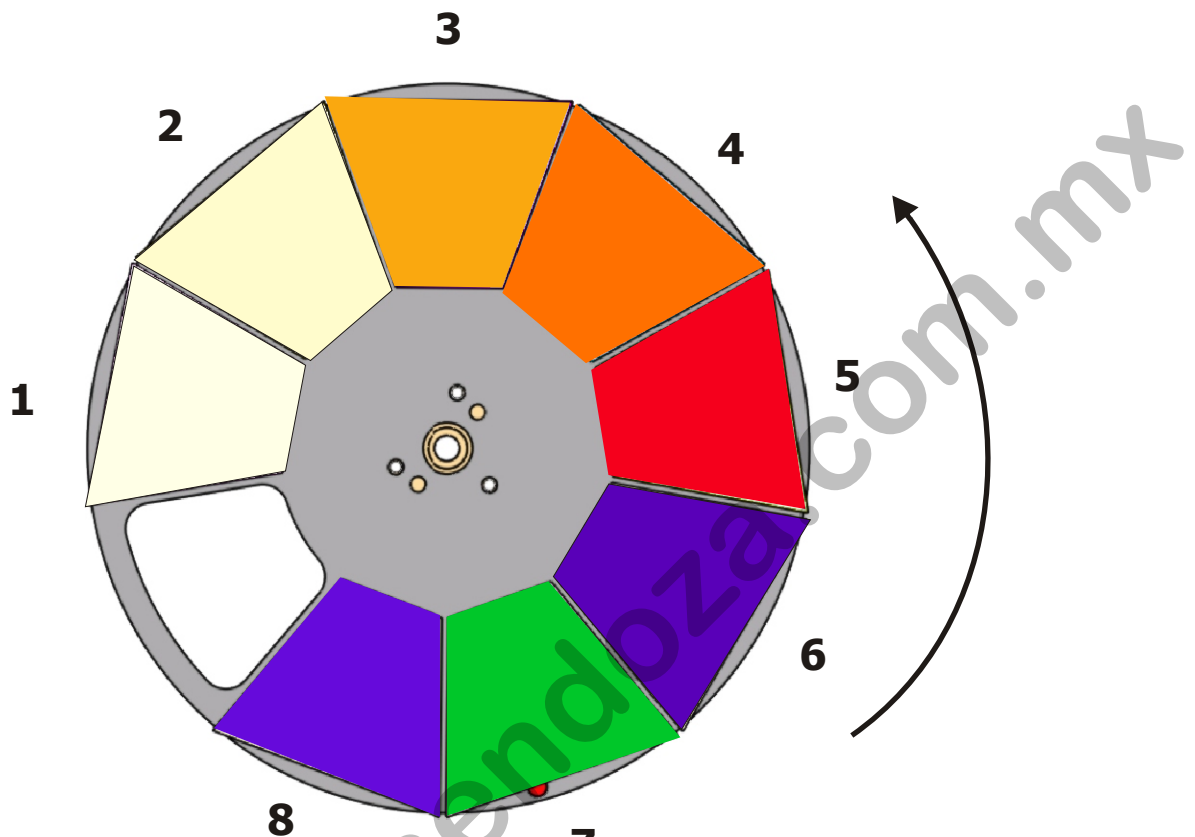
0516G033.15.M.58

29- COLOUR WHEEL

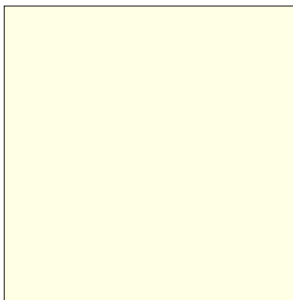
XR300 BEAM FAR E.B. (Cod. 03.MB002.EB.LF) • FAR system • CMY • Electronic ballast

XR300 BEAM FAR (Cod. 03.MB002.LF) • FAR system • CMY • Electromagnetic ballast

XR300 BEAM E.B. (Cod. 03.MB002.EB.L) • CMY • Electronic ballast

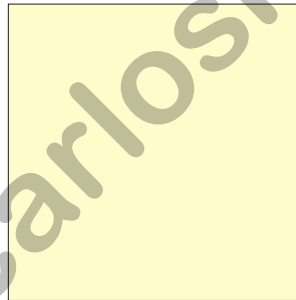


COL1



0507K005.D01
HALF CTO
HOT TC3256

COL2



0507K004.D01
CTO
TC3256

COL3



0507C053.D01
AMBER LW 550

COL4



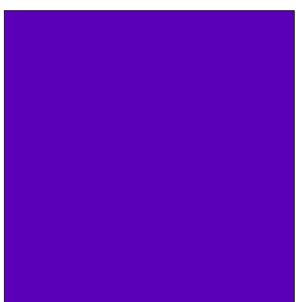
0507C051.D01
ORANGE LW590

COL5



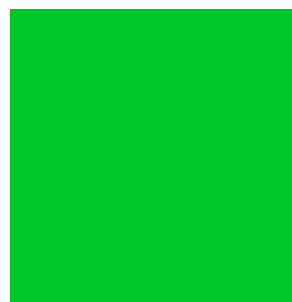
0507C047.D01
RED LW 640

COL6



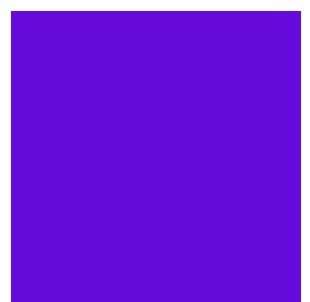
0507C046.D01
WOOD SW460

COL7



0507C042.D01
GREEN WB5055

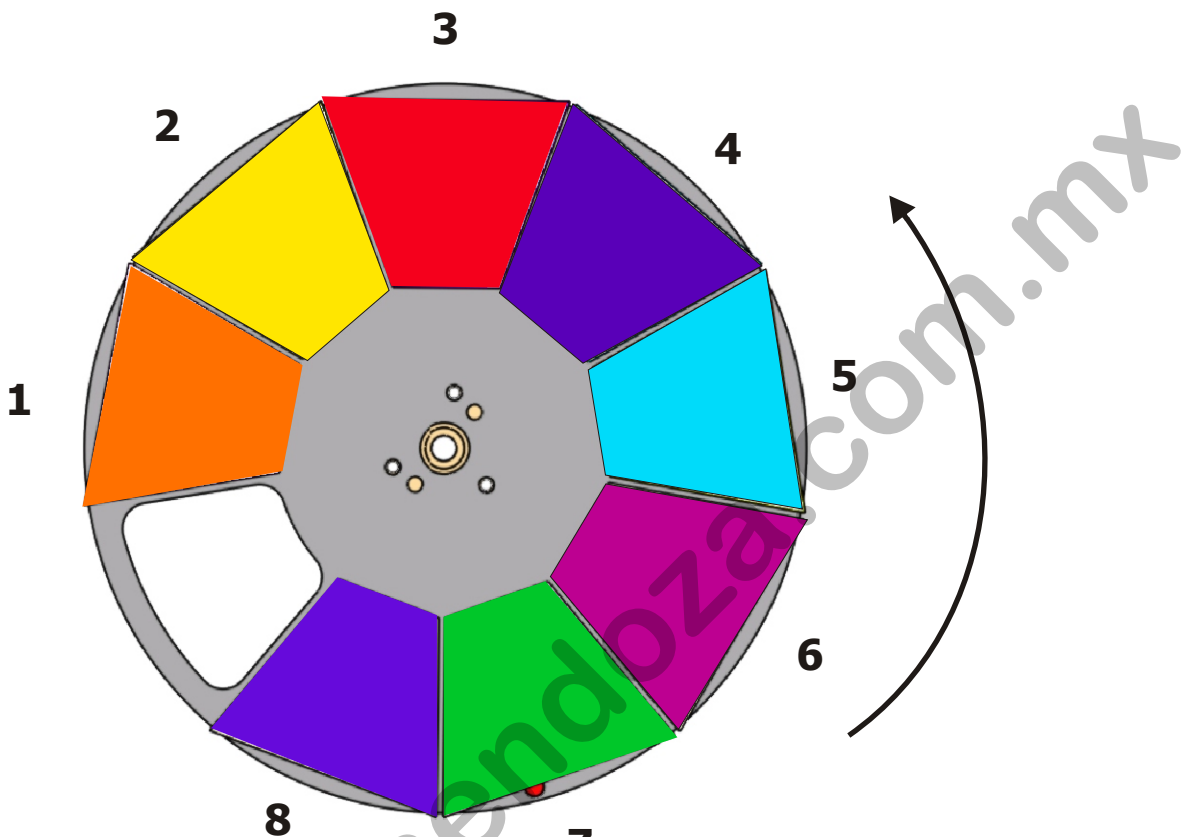
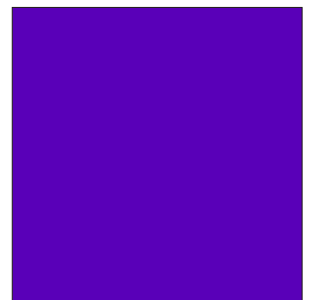
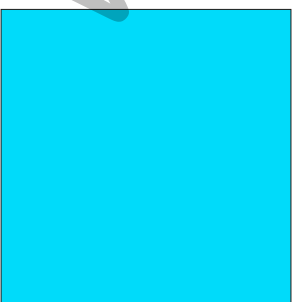
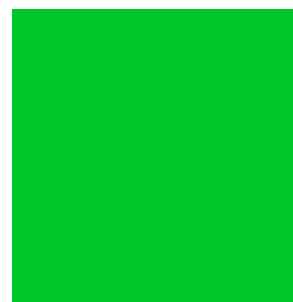
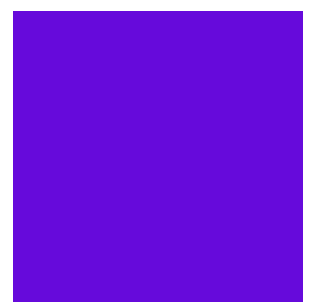
COL8



0507C041.D01
DARK BLUE SW490

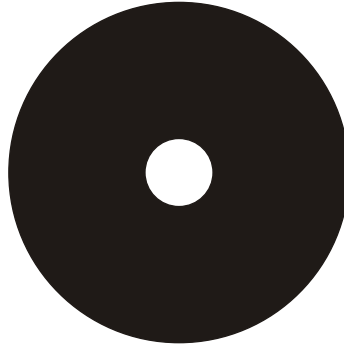
29- COLOUR WHEEL

XR300 BEAM BF (Cod. 03.MB003.L) • Electromagnetic ballast

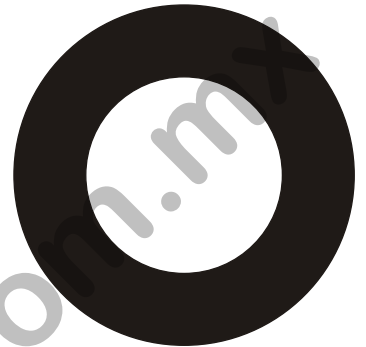
**COL1**0507C051.D01
ORANGE LW590**COL2**0507C049.D01
YELLOW LW 515**COL3**0507C047.D01
RED LW 640**COL4**0507C046.D01
WOOD SW460**COL5**0507C045.D01
CYAN SW 530**COL6**0507C043.D01
LAVANDER SL0064**COL7**0507C042.D01
GREEN WB5055**COL8**0507C041.D01
DARK BLUE SW490

30- GOBOS PROVIDED IN THE BOX AS STANDARD ACCESSORIES**GOBO 8 METAL**

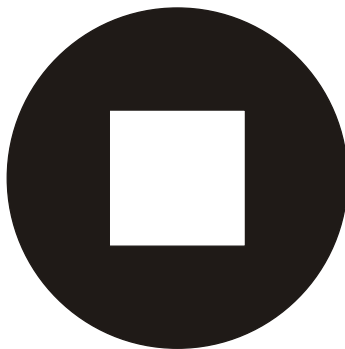
0516G033.08

GOBO 9 METAL

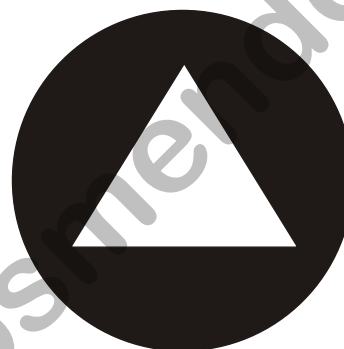
0516G033.09

GOBO 10 METAL

0516G033.10

GOBO 11 METAL

0516G033.11

GOBO 12 METAL

0516G033.12

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The Lighting Company

ISO 9001:2000

D.T.S. quality system
is certified to the
ISO 9001:2000 standard



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and manufactured at the D.T.S.
plants in Italy



05171136