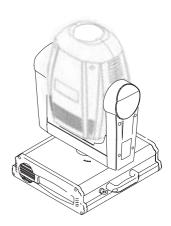
Introduction and safety informations	page 1
Technical features and lamps	page 2
Before using	page 4
Main supply connection	page 5
Lamp's installation, replacement and setting	page 6
DMX signal connection	page 7
Control panel and configuration (XS1200)	page 8
Menu tree options (XS1200)	page 10
Menu tree options (XS700/B)	page 12
Use in DMX 512, 8 - 16 bit (XS1200)	page 13
Use in DMX 512, 8 - 16 bit (XS700/B)	page 14
DMX listing details (XS1200)	page 15
DMX listing details (XS700/B)	page 18
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INTRODUCTION

Thank you for using the XS, our moving head fixture completely manufactured in light alloy and plastic material, with an optic system of incredible performance and a modern and reliable electronics, can be smartly used anywhere.

To make the most of its possibilites and for a correct functioning of this unit in the years to come, we suggest you to read carefully this manual before connecting or putting the spot into use. By doing so you will gain experience with its commands and connections and you will be easily able to use it.

YOUR REFERENCE

Always remember to give the serial number and to specify the model any time you address the seller for information or assistance.

BASIC KIT (all versions)

- Projector
- Power connector
- •User's manual
- Studio Due warranty
- Metal fixing plate
- •Lamp (upon request)

AVAILABLE VERSIONS

art, 03061: XS1200 • art, 0306: XS700/B

SAFETY INFORMATION



READ ALL CAUTIONS AND WARNINGS PRIOR TO OPERATE THIS EQUIPMENT.
INSTRUCTION TO PREVENT INJURY OR DAMAGE DUE TO ELECTRIC SHOCK, FIRE, MECHANICAL HAZARDS AND
UV RADIATION HAZARDS.

•PROTECTION AGAINST FIRE

1) This equipments are designed for use with the following lamps:

HTI 1200 S XS (XS1200)

HTI 700 DE XS (XS1200)

HMP 575 DE XS (XS1200 and XS700/B)

USE COMPLETELY EQUIVALENT LAMPS ONLY!

- 2) Maintain minimum distance of 0.3 meter from walls or any other type of flammable surfaces.
- 3) Maintain minimum distance to lighted objects of 1.0 meter.
- 4) Replace fuses only with the specified type and rating.
- 5) Do not install the spot close to heat sources. Do not lay the connection cable on the spot when it is warm.

•PROTECTION AGAINST ELECTRIC SHOCK

- 1) This equipment must be earthed.
- 2) Class I equipment. The power supply cord includes a protective earthing conductor as part of the cord. See page 5, pict.1.
- 3) For connection to the mains supply proceed as pict.1 page 5.
- 4) Disconnect power before lamp's replacement or servicing as page 6 (service personnel).
- 5) Do not install the spot outdoor, directly exposed to the rain or moisture.

•PROTECTION AGAINST MECHANICAL HAZARDS

- 1) Use safety chain when fixing this equipment (page 4).
- 2) Hot lamp explosion hazard. Do not open the equipment for five minutes after switching off.
- 3) Equipment surface may reach temperature up to 85°C. Allow about five minutes before handling.
- 4) Replace the lamp if it is damaged or thermally deformed and, in any case, do not exceed the lamp's life.

•PROTECTION AGAINST UV RADIATION HAZARDS

- 1) Do not start on this equipment without lamp enclosure or if the protection screens, or ultraviolet screens are damaged.
- 2) The protection screens, the lenses, or the ultraviolet filters must be replaced if they are visibly damaged and their effectiveness has been reduced, for example, by cracks or deep scratches.
- 3) Do not look directly at the lamp while lamp is on.

XS 1200 TECHNICAL FEATURES

• LAMPS (OSRAM)

Lamps	HMI 1200W/S XS	HMI 700W/DE XS	HMP 575 DE XS
Colour temperature	6000° K	5.600° K	6.000° K
Lamp life	750 hours	500 hours	500 hours
Working voltage	95V	70V	90V
Working current	12.7A	10A	7.7A
Luminous flux	110.000 lm	56.000 lm	60.000 lm
Colour rendering index	(Ra) > 90	(Ra) > 85	(Ra) > 85

Remote lamp ON/OFF by DMX. Reset by DMX and/or panel

Automatic lamp re-strike

PAN TILT

Movement: stepper motor 16 bit resolution:

460°, 360°, 180° Pan, 270°, 180° Tilt

Pan/Tilt excursion: 3 different by setting menu

Ramp: fast/slow by DMX

Encoder close loop with auto-repositioning

COLORS

colors wheel A: 5 colors + 6 bicolors continuous position + rainbow

colors wheel B: 3 colors + 3 bicolors

2 conversion filters (similar to CTO and CTB)

GOBOS

2 rotating indexable gobos wheels: 5 gobos + white (max gobo tickness 4mm)

3 static printed glass gobos

• DIMMER

100-60% electronic dimmer - 60-0% mechanical dimmer

Fast shutter with electronic dimmer function (-40% lamp power)

- STROBE
- 1-15 Flashes/sec.
- MOTORIZED ZOOM

continuous positioning (17°-27°)

MOTORIZED FOCUS

1m-∞

- ROTATING PRISM
- 2 rotating prisms
- IRIS

continuous positioning

- FROST
- 2 frost filters +1 continuous frost
- SETTING

Built-in microprocessor with LED display and graphic LCD

DISPLAY

graphic LCD with flip function (can be rotate through 180°)

• INPUT SIGNAL

DMX512-RS485 Opto-isolated

LAMP SUPPLY

electronic ballast in 100Hz square wave with power lamp stabilizer

POWER SUPPLY

electronic power factor corrector, 95 ÷ 260Vac, 47 ÷ 63Hz

• DMX CHANNELS (20 channels)

ch1 = iris ch11 = focusch2 = color ch12 = filters ch3 = gobo A ch13 = gobo B ch4 = strobe/shutter ch14 = gobo B pos.rot. ch5 = pan coarse ch15 = gobo A pos.rot. ch16 = zoomch6 = pan finech17 = glasses = tilt coarse ch7 ch8 = tilt fine ch18 = frost

ch19 = prisms ch10 = motor speed ch20 = reset/lamp off/PT ramp

AVAILABLE MODEL

ch9 = dimmer

03061: XS1200 electronic ballast

XS 700/B TECHNICAL FEATURES

• LAMP (OSRAM)

Lamps	HMP 575 DE XS
Colour temperature	6.000° K
Lamp life	750 hours
Working voltage	90V
Working current	7.7A
Luminous flux	60.000 lm
Colour rendering index	(Ra) > 85

Remote lamp ON/OFF by DMX. Reset by DMX and/or panel

Automatic lamp re-strike

PAN TILT

Movement: stepper motor 16 bit resolution:

460°, 360°, 180° Pan, 270°, 180° Tilt

Pan/Tilt excursion: 3 different by setting menu

Ramp: fast/slow by DMX

Encoder close loop with auto-repositioning

• COLORS

colors wheel A: 5 colors + 2 bicolors continuous position + rainbow

colors wheel B: 2 colors + 1 bicolor + 2 color filters conversion (similar to CTO / CTB)

• GOBOS

1 rotating indexable gobos wheels: 5 gobos + white + rainbow (max gobo tickness 4mm)

1 static gobos wheels: 5 gobos + white (max gobo tickness 4mm)

3 static printed glass gobo

• DIMMER

0-100% mechanical dimmer - fast shutter

- STROBE
- 1-15 Flashes/sec.
- MOTORIZED ELECTRONIC ZOOM

continuous positioning (17°-27°)

• MOTORIZED ELECTRONIC FOCUS

1m-∞

• IRIS

continuous positioning

- ROTATING PRISM
- FROST 1 fixed medium frost
- SETTING

Built-in microprocessor with LED display

• DISPLAY

with flip function (can be rotate through 180°)

• INPUT SIGNAL

DMX512-RS485 Opto-isolated

• LAMP SUPPLY

electronic ballast in 100Hz square wave with power lamp stabilizer

POWER SUPPLY

electronic power factor corrector, 95 ÷ 260Vac, 47 ÷ 63Hz

• DMX CHANNELS (17 channels)

ch1 = iris

ch2 = color

ch3 = gobo A

ch4 = strobe/shutter

ch5 = pan coarse

ch6 = pan fine

ch7 = tilt coarse

ch8 = tilt fine

ch9 = dimmer ch10 = motor speed

ch11 = focus

ch12 = filters

ch13 = gobo B

ch14 = gobo B pos.rot.

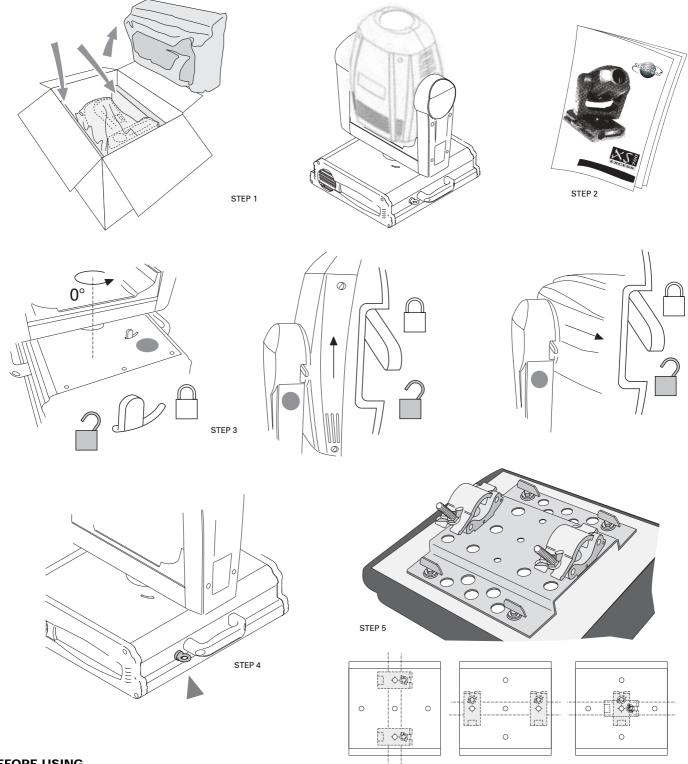
ch15 = prism/frost + colors

ch16 = zoom

ch17 = reset/lamp off/PT ramp

AVAILABLE MODELS

0306: XS700/B



BEFORE USING

- 1) Open the top of the box, take out the foam protection and the sides polystyrene and put it on a flat plane to operate. Don't handle the fixture by taking it by the bracket or the head, but always by using the special handles on the base.
- 2) Read all cautions and warnings on the user's manual and particularly page 1 prior to install this equipment.
- 3) Release the Pan and Tilt lock mechanism. For your following requirement, lock the head in vertical or horizontal position.
- 4) For spot installation to a truss, check carefully that the security ring is well fixed with a chain to both truss and unit.
- 5) On the metal fixing plate (with 1/4 turn fasteners) you can rig the fixture with the aluminium clamps (optional).

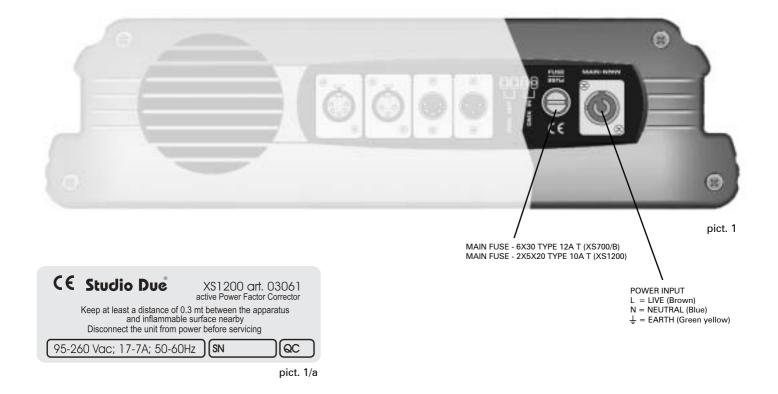


Check that the spot has not been damaged during transport.

If it has been damaged or it does not work, address the seller.

Whether the spot has been shipped to you directly, please contact the shipping company.

Only the consignee (person or company) can claim for these damages.



MAIN SUPPLY CONNECTION



The equipment must be earthed. If this rule is not followed, the warranty will be void.

Read all cautions and warnings on page 1 prior to install this equipment. Particularly, read the follow:

Before connecting the equipment to the power system:

Make sure that the mains voltage and frequency are in the right range (pict.1/a)

- tension from 95V to 260V
- frequency from 50Hz to 60Hz

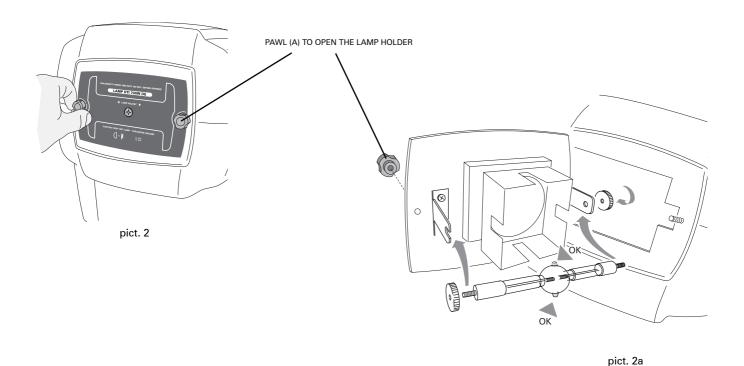
The power supply connection is shown in pict.1.

- 1) Do not install the spot close to heat sources. Do not lay the connection cable on the spot when it is warm.
- 2) This unit must be positioned as to allow its ventilation. Be careful not to occlude the in-out air grilles.
- 3) The unit must be positioned at least 30cm. from walls or other flammable surfaces.
- 4) External surface temperature:
- After 5 minutes work; Tc=65°C.
- Once the thermic balance has been obtained; Tc=85°C.
- 5) The protection screens, the lenses, or the ultraviolet filters must be replaced if they are visibly damaged and their effectiveness has been reduced, for example, by cracks or deep scratches.
- 6) Replace the lamp when the lamp life is exhausted (500....1000 hours) to avoid bad performances of the fixture or that the optic system is damaged by the lamp explosion (see "LAMP'S INSTALLATION" chapter).
- 7) Clean regularly the in-out air grilles, the lenses and the gobos (see "MAINTENANCE AND PERIODICAL CLEANING" chapter).
- 8) In case of installation of the spot to a truss, check carefully that the security ring is well fixed with a chain to both truss and unit. Do not handle the spot by taking it by the bracket, but always by the base with the special handles.
- 9) Do not install the spot outdoor, directly exposed to rain or moisture.



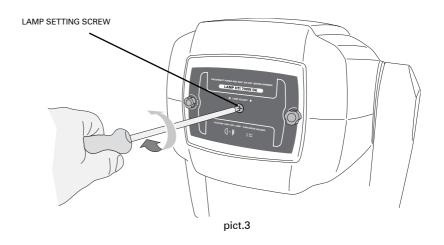
In case of replacement of the lamp or maintenance, do not open the fixture unless 5 minutes have passed from the switching off.

- 1) Disconnect power before lamp's installation, replacement or servicing (service personnel). Wear gloves and goggles.
- 2) Unscrew the pawls (A) on the back of the head fixture. (pict.2)
- 3) Open the lamp's holder on the back of head fixture.
- 4) Insert the lamp into the lamp holder socket (pict.2a). **Don't touch the quarz bulb with fingers**. If this happens, clean the bulb before use with cloth and alcohol. Polish with a dry cloth.
- 5) Taking care that the protuberance of the bulb is not set towars the mirror reflector and the condenser lens.
- 5) Close the lamp holder; one security switch will prevent the switching on.



LAMP ADJUST

Operate on the lamp setting nuts (lamp adjust) on the lamp holder (pict.3). So to have the maximum of the brightness and maximum uniformity of the glow discharge.



CONNECTION TO THE DMX SIGNAL

The connection of the DMX signal to the XS must be made by using the signal input XLR 5 pin or XLR3 pin connectors which are located on the rear panel of the XS. (pict.4)

The pin nomenclature of the connectors for the connection to the DMX signal is listed in the table. (pict.4/a)

In order to avoid any problem in the signal transmission, it is warmly suggested to use a cable for high speed data transmission.

The usage of a normal microphonic or audio cable is suggested only for lines max 100 mts long. The best performances are with microphonic cable of mm2x0.25 + ground or with cable for data transmission. If the lines have a total length over 150-200 mts it is suggested to use our DMX Repeater Amplifier.



PIN	WIRE	SIGNAL	
1	SHIELD	GROUND/RETURN/OV	
2	INNER CONDUCTOR	DATA COMPLEMENT (-, INVERTED)	
3	INNER CONDUCTOR	DATA TRUE (+, NON INVERTED)	
4		N.C.	
5		N.C.	

pict. 4/a

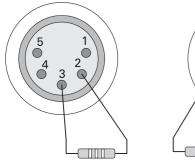
DMX TERMINAL LINE

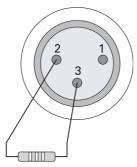


The wrong connection of the terminal line or its non-connection are probably the most frequent reasons for the defective functioning of the DMX line. The terminator is a resistor fitted between the two "data" lines (pins 2 and 3 of an XLR 5 or XLR 3 pin connector) at the end of the cable furthest from the transmitter. The terminator resistor should have the same value as the impedance of the connection cable.

We supply a terminal with a 100 Ohm resistor.

It is recommanded that all DMX 512 systems have the termination resistor at the and of the line.





SUMMARY OF THE PROGRAMMING FUNCTIONS OF THE XS1200



CONTROL PANEL OF THE XS 1200

To control the fixture, to setup it, to check the DMX line and the lamp, on the front panel of the fixture there are a graphic 128x64pixel lcd display, 3 led BCD display, 4 led and 4 keys.

The keys are used into dynamic menus. Their functions change with the working contest and their options are displayed in the external rows of the lcd display.

About some seconds after the switching on, the Studio Due's logo be shown on the display. Afterwards the standard specifications will appear:

Version 1.00 the release of the firmware Serial 10001 the serial number of the fixture

DMX 001 Next 021 the start DMX address of the fixture and the next DMX free address Lamp TENT 0 1200W 92V the tents to strikes the lamp and the working parameter of the lamp

press any key press any key to select one of the available menus

to reset the fixtures press simultaneously the two keys between the LCD display and the led BCD

AVAILABLE MENUS

ADDRESS to assign the DMX-512 address
 PAN-TILT to control the pan and tilt parametres

DIMM/SHUTT
 HRS COUNT
 DISPLAY
 dimmer/shutter values
 lamp and fixtures counters
 brightness and flip controls

UTILITY DMX values controls/language selections/reset
 DMX SPEC remote lamp switch off/ramp

• **SERVICE** initialization of the fixture/calibration of the wheels

• BALLAST parameters of the lamp/strikes control

To select any of the given options, press any key. The dynamic keys have the OK, ESC, Up and Down options.

Press the ESC key to go back to the main options without making any change; press OK to select the showed option, press Up or Down keys up to when the required one is shown

ADDRESS (to assign the first channel used by the fixture)

To select the DMX address press **OK**.

To modify the address press Down and Up buttons and, once the required address has been selected, press and press **OK** to confirm the inserted value. To go back to the options without making any change, press the **ESC** button.

PAN-TILT (to select pan and tilt inversion, resolution 8/16 bit, feedback)

To select the pan and tilt options press **OK**.

It is possible to select the pan inversion, the tilt inversion, the bit of resolution (8/16 bit), the degrees of the pan revolution (MIN/MED/MAX), the degrees of the tilt revolution (MIN/MAX), the ramp (SLOW/FAST) and the swap between pan and tilt.

It is possible to set 20 (16 bit) or 18 channels (8 bit).

It is also possible possible to set the speed of the ramp. You can set SLOW RAMP and FAST RAMP. The slow ramp is used when you want an extreme uniformity of the movements (live and television use), the fast ramp is used when the very fast movement is the most important thing (disco use or with a particularly music). To go back to the options without making any change, press the ESC button.

DIMM/SHUTT (to select dimmer mode, timeout)

To select the dimmer/shutter options press **OK**.

It is possible to select the dimmer mode (MOD1/MOD2) the shutter mode (MOD1/MOD2), the insertion of the shutter during the color change and the shutter change, the time-out when the DMX signal it is not present. To go back to the options without making any change, press the **ESC** button.

HRS COUNT (To visualize the values of the counters)

To visualise the number of hours of the fixture and of the lamp **OK**.

It is only possible to show the counters, all the keys is used to go back to the options without making any change.

DISPLAY (to flip the displays, to control the brightness)

To select the options of the display press **OK**.

It is possible to choice the FLIP option, the auto-shutdown of the display and to control the brightness of the control panel. To go back to the options without making any change, press the **OK** button.

UTILITY (to visualize the DMX values, to select the demo mode, to choiche the language)

To visualise the utilities, to choice the language, the demo mode and the test of the fixture press OK.

Use Down and Up buttons to change the mode and, once the required one has been selected, press and keep ENTER pressed up to when the display stops flashing (it flashes to indicate that the selected option is different from the pre-set one). It is possible to set: no (normal) normal pan, PI (pan inversion). To go back to the options without making any change, press the MENU button.

DMX SPEC (to activate/deactivate the reset of the fixture, the control of the lamp control and to selct the ramp by the DMX controller)

To choice the DMX options press OK.

It is possible to activate the remote reset of the fixture (Rese), the remote switch-off of the lamp and theremote selection of the ramp. To go back to the options without making any change, press the **OK** button.

SERVICE (to calibration of the wheels)

To reset the counter of the lamp and to calibrate the wheels press OK.

The sub-menu will be showed: Format, reset lamps hours and calibration. The calibration has two possible choices: Calibrat 1 and Calibrat 2. Ref. to page 9 for details. The offset is the value added to the reset position of the wheel so to change the position of the wheel after the reset procedure. These values will be stored in the flash memory of the fixtures.

To go back to the options without making any change, press the MENU button.

BALLAST (to modify the options of the electronic ballast)

To verify the working parameters of the lamp and to change the type of the lamp press **OK**.

The showed parameters are: the voltage, the current, the PFC voltage, the effective power of the lamp, the number of the possible tentative to strike the lamp and the lamp's type.

In the advanced menu it is possible to modify the number of the strikes and the lamp's type.

To go back to the options without making any change, press the ${\bf OK}$ button.

Menu Options of the XS 1200 (LCD graphic display)

--- XS 1200 ----

Version 1.00 **Serial** 10001 **DMX001 Next 021** 1200W 92V Lamp TENT

Press any key

pict. 6

ADDRESS... Chan DMX 01

Next Ch 021 Channels 20

PAN-TILT Pan Inv Y/N

> Tilt Inv Y/N Resolution 8/16b

Advanced MIN/MED/MAX Range -> PAN ->

TILT MIN/MAX

Feedback Y/N Swap Y/N Ramp SLOW/FAST

DIMM/SHUTT MOD1/MOD2 Dimmer

Shutter MOD1/MOD2 Rotation MOD1/MOD2

Shutter COL Advanced Y/N ->

Shutter GOBO Y/N Time-Out Y/N

Time.... -> Time DMX

3 Sec

HRS COUNT **Hours Counter**

Lamp 0 Fixture

DISPLAY Y/N Flip

Auto Shut Y/N Advanced ->

> Brightness ... **Brightness**

0 ====== MAX

UTILITY DMX Rd/Wr -> Parameters.... StCode -

Channels — Time — ms 001 : --- IRIS

Read.... 002:--- COLOR

> 512 : ---IRIS : ---COLOR: ---

> > RESET: ---

Advanced -> Mode DMX/DEMOX Demo ->

Speed ... Demo Speed

01.0 sec

Language **ENG/ITA** Test NO/YES

Fixture Reset

Write....

DMX SPEC Y/N Reset

Lamp Off Y/N Ramp Sel Y/N SERVICE

Format Reset Lamps Hours Calibration ->

Calibrat 1 -> C/E Wheel

Gobo Wheel Prism Wheel

Calibrat 2 -> Focus

Shutter Iris

Frost

Calib YYYY Offset +127

BALLAST

Parameters ... V Lampd V

I Lampd A

V PFC V

Power W

Tent Nr

Lamp xxxx

Advanced -> Strikes ... Strikes Count

Strikes —-

Lamp Type ——-

NOTE

All the available lamp are:

- HMI 1200 S DE (Osram)
- HTI 700 DE (Osram)
- MSI 700 DE (Philips)
- HMP 575 DE boosted to 700W (Osram)
- MSP 575 DE boosted to 700W (Philips)

If on the ballast the power of 1200W is selected, the available lamp is only the lamp of 1200W:

• HMI 1200 S DE (Osram)

SUMMARY OF THE PROGRAMMING FUNCTIONS OF THE XS 700/B



Default message → CXXX (XXX= channel)

Press any key to access to the menu.

To select a menu and to change a numeric value press UP o DOWN.

To select a menu and to confirm the value/option selected press ENTER.

To go back to the options without making any change, press the ESC button.

Addr		*** DMX add	dress value ***
	Addr		rting DMX address)
DT .			
PT →		*** Pan/Tilt *	
	Ipan	→ Off/On	(Pan Inversion)
	Itilt	→ Off/On	(Tilt Inversion)
	S-PT	→ Off/On	(Swap Pan – Tilt)
	Prng	→ High/Low/Mid	(Pan – Pan Range Max Excursion)
	Trng	→ High/Low	(Tilt – Tilt Range Max Excursion)
	Fdbc	→ Off/On	(Encoder Selected/Deselected)
	Reso	→ 16-b/8-b	(Pan Tilt Resolution – 8/16 Bit)
	Ramp	→ Fast/Slow	(Ramp select)
Effs -	>	*** Effects	b ***
	SH-C	→ Off/On	(Shutter on color change)
	SH-G	→ Off/On	(Shutter on gobo change)
	Dmmd	→ Mod1/Mod2	(Dimmer 0255 ClosedOpen / Open Closed)
	Shmd	→ Mod1/Mod2	(Ch strobe 255 shutter closed / strobe max.)
Hoom			
Hscn -		*** Count	
	Lhrs	→ YYY	(YYY = Lamp's hours)
	Fhrs	→ ZZZ	(ZZZ = Fixture's hours) + UP DOWN → Reset lamp's hours
Disp -	>	*** Displa	y ***
'	Flip	→ Off/ON	(Flip display)
	Brgt	→ br H	(H = Brightness level)
	Lshd	→ Off/On	(Auto shutdown display and leds after 30sec)
Demo	_	*** Demo	***
Dellio	Mode	→ no/dm 1dm n	(n = max number of games in memory)
	Spd	→ AA"A	(AA"A = seconds delay time between scenes)
	Эри	/ AA A	(AAA — Seconds delay time between scenes)
Dmsp ·	\rightarrow	*** DMX \$	Special ***
	Rset	→ Off/On	(reset of the fixture by DMX)
	Lamp	→ Off/On	(shut-off the lamp by DMX)
	Ramp	→ Off/On	(ramp's PAN/TILT selection by DMX)
Srvc -	-	*** Ser\	vice ***
01 10	Reset	→ Reset of the fixture	
	Test	→ T-on	(Test of the fixture)
	CoIC	→ VVV	(VVV = Value of the calibration)
	 Go2C	→ VVV	

XS 1200: USE IN DMX 512

If you want it is possible to choose a reduced resolution (8 bit) for the PAN/TILT motion of the XS 1200 by occupying 18 DMX channels, or a high resolution (16 bit) by occupying 20 channels.

8 or 16 BIT MODE SELECTION

From the main display, press a key, and use the **Up** and **Dn** keys up to when the option PAN/TILT is shown on the display, select it by pressing **OK** and the sub-menu will appear (Pan Inv, Tilt Inv, Resolution, Adavnced ->). With the Up and Down keys put in evidence the Resolution options, now press the SEL key. Choiche the 8b option and the press the ESC key for 8 bit performance To exit from the selected option without making any change press the **ESC** button.

When set to work at 8 or 16 bit the XS 1200 needs 18 or 20 channels to control the following functions and the correspondence channel/function is listed below. The complete listing of the DMX values is shown on appendix, page 15.

8 BIT / 18 CHANNELS

16 BIT / 20 CHANNELS

Channel No.	Spot Function	Channel No.	Spot Function
ch1 ch2 ch3 ch4 ch5 ch6 ch7 ch8 ch9 ch10 ch11 ch12 ch13 ch14 ch15 ch16 ch17	iris color gobo A strobe/shutter pan coarse tilt coarse dimmer motors speed focus filters gobo B gobo B post. rot. gobo A pos. rot. zoom glasses frost prism	ch1 ch2 ch3 ch4 ch5 ch6 ch7 ch8 ch9 ch10 ch11 ch12 ch13 ch14 ch15 ch16 ch17	iris color gobo A strobe/shutter pan coarse pan fine tilt coarse tilt fine dimmer motors speed focus filters gobo B gobo B post. rot. gobo A pos. rot. zoom glasses
ch18	reset/lamp off/PT ramp	ch18 ch19 ch20	frost prism reset/lamp off/PT ramp

CHANNELS ASSIGNMENT IN DMX 512 (8 BIT)

ADDRESS SELECTION

From the main display, press a key, and use the **Up** and **Dn** keys up to when the option ADDRESS is shown on the display, select it by pressing **OK** and the sub-menu will appear (Chan DMX, Next Ch, Channels). Use the Up and Down keys up to when the correct Address is shown on the display. Once you have set the required number store it by pressing the **OK** button. To exit from the selected option without making any change press the **ESC** button.

The following picture shows the correct channels to be used to drive 4 XS (8 bit, 18 channels) in DMX 512 (pict. 7).

 Spot n° 1
 Spot n° 2
 Spot n° 3
 Spot n° 4

 O 1
 O 5
 O 5
 O 5

 Channels 1-18
 Channels 19-36
 Channels 37-54
 Channels 55-72

The following picture shows the correct channels to be used to drive 4 XS (16 bit, 20 channels) in DMX 512 (pict. 8).

 Spot n° 1
 Spot n° 2
 Spot n° 3
 Spot n° 4

 O 1
 O 1
 O 1
 O 1
 O 1
 O 1
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XS 700/B: USE IN DMX 512

If you want it is possible to choose a reduced resolution (8 bit) for the PAN/TILT motion of the XS 700/B by occupying 15 DMX channels, or a high resolution (16 bit) by occupying 17 channels.

8 or 16 BIT MODE SELECTION

From the main display, press a key, and use the **Up** and **Dn** keys up to when the option PAN/TILT is shown on the display, select it by pressing **OK** and the sub-menu will appear (Pan Inv, Tilt Inv, Resolution, Adavnced ->). With the Up and Down keys put in evidence the Resolution options, now press the SEL key. Choiche the 8b option and the press the ESC key for 8 bit performance To exit from the selected option without making any change press the **ESC** button.

When set to work at 8 or 16 bit the XS 700/B needs 15 or 17 channels to control the following functions and the correspondence channel/function is listed below. The complete listing of the DMX values is shown on appendix, page 18.

8 BIT / 15 CHANNELS

16 BIT / 17 CHANNELS

Channel No.	Spot Function	Channel No.	Spot Function
ch1 ch2 ch3 ch4 ch5 ch6 ch7 ch8 ch9 ch10 ch11 ch12 ch13 ch14 ch15	iris color gobo A strobe/shutter pan coarse tilt coarse dimmer motors speed focus filters gobo B gobo B post. rot. prism/frost/colors zoom reset/lamp off/PT ramp	ch1 ch2 ch3 ch4 ch5 ch6 ch7 ch8 ch9 ch10 ch11 ch12 ch13 ch14 ch15 ch16 ch17	iris color gobo A strobe/shutter pan coarse pan fine tilt coarse tilt fine dimmer motors speed focus filters gobo B gobo B post. rot. prism/frost/colors zoom reset/lamp off/PT ramp

CHANNELS ASSIGNMENT IN DMX 512 (8 BIT)

ADDRESS SELECTION

From the main display, press a key, and use the **Up** and **Dn** keys up to when the option ADDRESS is shown on the display, select it by pressing **OK** and the sub-menu will appear (Chan DMX, Next Ch, Channels). Use the Up and Down keys up to when the correct Address is shown on the display. Once you have set the required number store it by pressing the **OK** button. To exit from the selected option without making any change press the **ESC** button.

The following picture shows the correct channels to be used to drive 4 XS (8 bit, 15 channels) in DMX 512 (pict. 7).

 Spot n° 1
 Spot n° 2
 Spot n° 3
 Spot n° 4

 O 1
 O 3
 O 4

 Channels 1-15
 Channels 16-30
 Channels 31-45
 Channels 46-60

The following picture shows the correct channels to be used to drive 4 XS (16 bit, 17 channels) in DMX 512 (pict. 8).

 Spot n° 1
 Spot n° 2
 Spot n° 3
 Spot n° 4

 O 1
 O 3
 O 5
 O 5

 Channels 1-17
 Channels 18-34
 Channels 35-51
 Channels 52-68

20 Channels - 16 bit

CHANNEL	FUNCTION	DESCRIPTION	DECIMAL	PERCENT
1	IRIS	BEAM SIZE		
		Min beam size	0	0%
		Max beam size	255	100%
2	COLOR	COLOR WHEEL		
		Full beam	08	0%3%
		White/Green Green	12 2935	4% 11%13%
		Green/Magenta	46	18%
		Magenta	6170	23%27%
		Magenta/Yellow	81	31%
		Yellow	95104	37%40%
		Yellow/Red Red	116 130136	45% 51%53%
		Red/Cyan	130136	51%53%
		Cyan	164172	64%67%
		Cyan/White	179	70%
		Rainbow Slow	180	71%
		Rainbow Mid1	196	76%
		Rainbow Mid2 Rainbow Mid3	212 228	83% 89%
		Rainbow Iviids Rainbow Fast	244	95%
		Numbew Fast	244	3370
3	GOBO A	GOBO WHEEL		
		Full Beam	044	0%17%
		Gobo 1	4589	18%34%
		Gobo 2 Gobo 3	90134 135179	35%52% 53%70%
		Gobo 4	180224	71%87%
		Gobo 5	225255	88%100%
4	STROBE/SHUTTER	STROBE		
		Full beam	09	0%3%
		Continuos strobe Close	10239 240253	4%93% 94%100%
		Olo30	240230	347010070
5	PAN COARSE	COARSE POSITIONING	0.055	20/ 1000/
		450°/360°/180°	0255	0%100%
6	PAN FINE	FINE POSITIONING	0255	0%100%
_	THEODARGE	ACROS ROCITIONING	0.055	
7	TILT COARSE	CORSE POSITIONING 270°/180°	0255	0%100%
		270 / 100		0 /0 100 /0
8	TILT FINE	FINE POSITIONING	0255	0%100%
9	DIMMER	DIMMER 256 STEPS		
,	DIIVIIVILA	Close	0	0%
		Full beam	255	100%
10	MOTOR SPEED	SPEED MOVEMENT		
		Speed 1 (slow)	063	0%24%
		Speed 2 (mid1) Speed 3 (mid2)	64127 128191	25%50% 51%74%
		Speed 4 (fast)	192255	75%100%
		Spood ((dot)	. 32.11200	75.0113070
11	FOCUS	256 STEPS		
		(proportional)	_	
		Min distance Max distance	0	0% 100%
		iviax distance	255	10070
	1			

CHANNEL	FUNCTION	DESCRIPTION	DECIMAL	PERCENT
12	FILTERS	White	041	0%16%
		Red	4283	17%32%
		Light Blue	84125	33%49%
		Dark Blue	126167	50%65%
		Bicolor 1	168209	66%81%
		Bicolor 2	210251	82%98%
		Bicolor 3	252255	99%100%
13	GOBO B	GOBO WHEEL Full Beam	044	0%17%
		Gobo 1	4589	18%34%
		Gobo 1 Gobo 2	90134	35%52%
		Gobo 2 Gobo 3	135179	53%70%
		Gobo 3 Gobo 4	180224	71%87%
		Gobo 5	225255	88%100%
		3050 3	223233	00 70100 70
14	GOBO B POS. ROT.	POSITION-ROTATING		
		Position (indexed)	0149	0%58%
		Rainbow slow (clockvise)	150160	59%62
		Rainbow mid1	161171	63%67%
		Rainbow mid2	172182	68%71%
		Rainbow mid3	183193	72%75%
		Rainbow fast	194204	76%80%
		Rainbow slow (anti-clockvise)	205216	81%84%
		Rainbow mid1	216226	85%88%
		Rainbow mid2	227237	89%92%
		Rainbow mid3	238248	94%97%
		Rainbow fast	249255	98%100%
15	GOBO A POS. ROT.	POSITION-ROTATING		
		Position (indexed)	0149	0%58%
		Rainbow slow (clockwise)	150160	59%62
		Rainbow mid1	161171	63%67%
		Rainbow mid2	172182	68%71%
		Rainbow mid3	183193	72%75%
		Rainbow fast	194204	76%80%
		Rainbow slow (anti-clockwise)	205216	81%84%
		Rainbow mid1	216226	85%88%
		Rainbow mid2	227237	89%92%
		Rainbow mid3	238248	94%97%
		Rainbow fast	249255	98%100%
16	ZOOM	CONTINUOS POSITIONING		
		17°	0	0%
		27°	255	100%
17	GLASSES	FILTERS/GLASSES		
''	JEAJJEJ	Normal	042	0%16%
		Filter 1	4385	17%33%
		Filter 2	86128	34%50%
		Glass 1	129171	51%67%
		Glass 1 Glass 2	172214	68%83%
		Glass 3	215255	84%100%
40	FROST	Ni-		
18	FROST	Normal	0	0
		Full frost	200	78%
		Frost	201224	79%87%
		Fixed frost 1	225249	88%97%
		Fixed frost 2	250255	98%100%

CHANNEL	FUNCTION	DESCRIPTION	DECIMAL	PERCENT
19	PRISM	White	07	0%2%
		Prism 1 on	812	3%4%
		Rot. prism 1 slow (clockwise)	1325	5%9%
		Rot. prism 1 (mid 1)	2638	10%14%
		Rot. prism 1 (mid 2)	3951	15%20%
		Rot. prism 1 (fast)	5264	21%25%
		Prism 1 on	6577	26%30%
		Rot. prism 1 slow (anti-clockwise)	7890	31%35%
		Rot. prism 1 (mid 1)	91103	36%40%
		Rot. prism 1 (mid 2)	104116	41%45%
		Rot. prism 1 (fast)	117127	46%50%
		Prism 2 on	128140	51%55%
		Rot. prism 2 slow (clockwise)	141153	56%60%
		Rot. prism 2 (mid 1)	154166	61%65%
		Rot. prism 2 (mid 2)	167179	66%70%
		Rot. prism 2 (fast)	180192	71%75%
		Prism 2 on	193205	76%80%
		Rot. prism 2 slow (anti-clockwise)	206218	81%85%
		Rot. prism 2 (mid 1)	219231	86%90%
		Rot. prism 2 (mid 2)	232244	91%95%
		Rot. prism 2 (fast)	245255	96%100%
20	RESET/LAMP/RAMP	DEFAULT VALUE		
		Force ramp slow	00.16	0%6%
		Force ramp fast	1731	7%12%
		Default value	3263	13%24%
		Reset	64127	25%49%
		Normal	128191	50%74%
		Lamp OFF	192240	75%94%
		Normal	241250	95%98%
			251255	99%100%

CHANNEL	FUNCTION	DESCRIPTION	DECIMAL	PERCENT
1	IRIS	BEAM SIZE Min beam size Max beam size	0 255	0% 100%
2	COLOR	COLOR WHEEL Full beam White/Green Green Green/Magenta Magenta Magenta/Yellow Yellow Yellow/Red Red Red Red/Cyan Cyan Cyan Cyan/White Rainbow Slow Rainbow Mid1 Rainbow Mid2 Rainbow Fast	08 12 2935 46 6170 81 95104 116 130136 149 164172 179 180 196 212 228 244	0%3% 4% 11%13% 18% 23%27% 31% 37%40% 45% 51%53% 58% 64%67% 70% 71% 76% 83% 89% 95%
3	GOBO A	GOBO WHEEL Full Beam Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5	044 4589 90134 135179 180224 225255	0%17% 18%34% 35%52% 53%70% 71%87% 88%100%
4	STROBE/SHUTTER	STROBE Full beam Continuos strobe Close	09 10239 240253	0%3% 4%93% 94%100%
5	PAN COARSE	COARSE POSITIONING 450°/360°/180°	0255	0%100%
6	PAN FINE	FINE POSITIONING	0255	0%100%
7	TILT COARSE	CORSE POSITIONING 270°/180°	0255	0%100%
8	TILT FINE	FINE POSITIONING	0255	0%100%
9	DIMMER	DIMMER 256 STEPS Close Full beam	0 255	0% 100%
10	MOTOR SPEED	SPEED MOVEMENT Speed 1 (slow) Speed 2 (mid1) Speed 3 (mid2) Speed 4 (fast)	063 64127 128191 192255	0%24% 25%50% 51%74% 75%100%
11	FOCUS	256 STEPS (proportional) Min distance Max distance	0 255	0% 100%

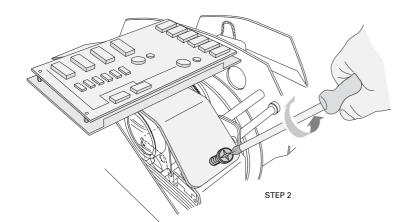
CHANNEL	FUNCTION	DESCRIPTION	DECIMAL	PERCENT
12	FILTERS	White	041	0%16%
		Red	4283	17%32%
		Light Blue	84125	33%49%
		Dark Blue	126167	50%65%
		Bicolor 1	168209	66%81%
		Bicolor 2	210251	82%98%
		Bicolor 3	252255	99%100%
13	GOBO В	GOBO WHEEL		
		Full Beam	044	0%17%
		Gobo 1	4589	18%34%
		Gobo 2	90134	35%52%
		Gobo 3	135179	53%70%
		Gobo 4	180224	71%87%
		Gobo 5	225255	88%100%
4.	0000 0 000 007	POOLETON SOCIETY		
14	GOBO B POS. ROT.	POSITION-ROTATING	0.440	00/ 500/
		Position (indexed)	0149	0%58%
		Rainbow slow (clockvise)	150160	59%62
		Rainbow mid1	161171	63%67%
		Rainbow mid2	172182	68%71%
		Rainbow mid3	183193	72%75%
		Rainbow fast	194204	76%80%
		Rainbow slow (anti-clockvise)	205216	81%84%
		Rainbow mid1	216226	85%88%
		Rainbow mid2	227237	89%92%
		Rainbow mid3	238248	94%97%
		Rainbow fast	249255	98%100%
15	PRISM/FROST/COLORS	Full Beam	015	0%5%
		Color 1	1631	6%12%
		Color 2	3247	13%18%
		Color 3	4863	19%24%
		Frost	6479	25%30%
		Prism on	80127	31%49%
		Rot. Prism speed (clockwise)	138191	50%74%
		Prism on	192201	75%78%
		Rot. Prism speed (anti-clockwise)	202255	79%100%\
16	ZOOM	CONTINUOS POSITIONING	•	0.04
		17°	0	0%
		27°	255	100%
17	RESET/LAMP/RAMP			
		_ Default value	00.16	0%6%
		Force ramp slow	1731	7%12%
		Force ramp fast	3263	13%24%
		Default value	64127	25%49%
		Reset	128191	50%74%
		Normal	192240	75%94%
		Lamp OFF	241250	95%98%
		Normal	251255	99%100%

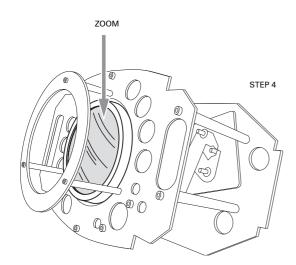
MAINTENANCE AND CLEANING

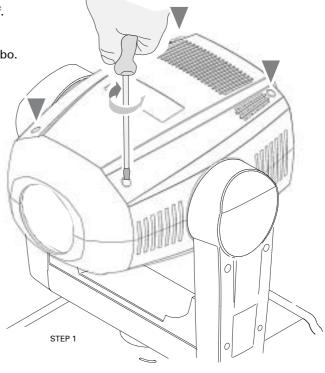
It is recommended, to ensure the best performances of your fixture for a long time, to periodically clean the parts shown as follow. Excessive dust, smoke and moisture are cause of bad performances. Alwais take care that the air grid (on the back of the cover) are clean.

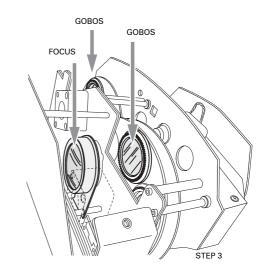
Prior to operate inside the fixture:

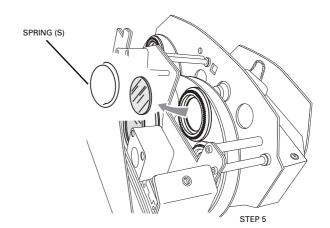
- a) Disconnect power before head cover opening or servicing.
- b) Don't open the head cover before five minutes after the switching off.
- c) The parts shown in picts. 3 and 4 requiring monthly cleaning.
- d) Follow the steps here below to operate the lenses cleaning.
- e) For gobos substitution remove the spring clip (S) and remove the gobo.

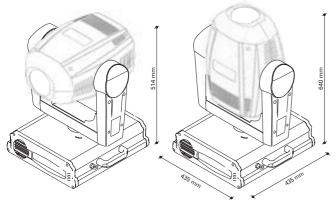














SPARE PARTS, TECHNICAL DRAWINGS and SCHEMATIC DIAGRAMS PARTI DI RICAMBIO, DISEGNI TECNICI e SCHEMI ELETTRICI

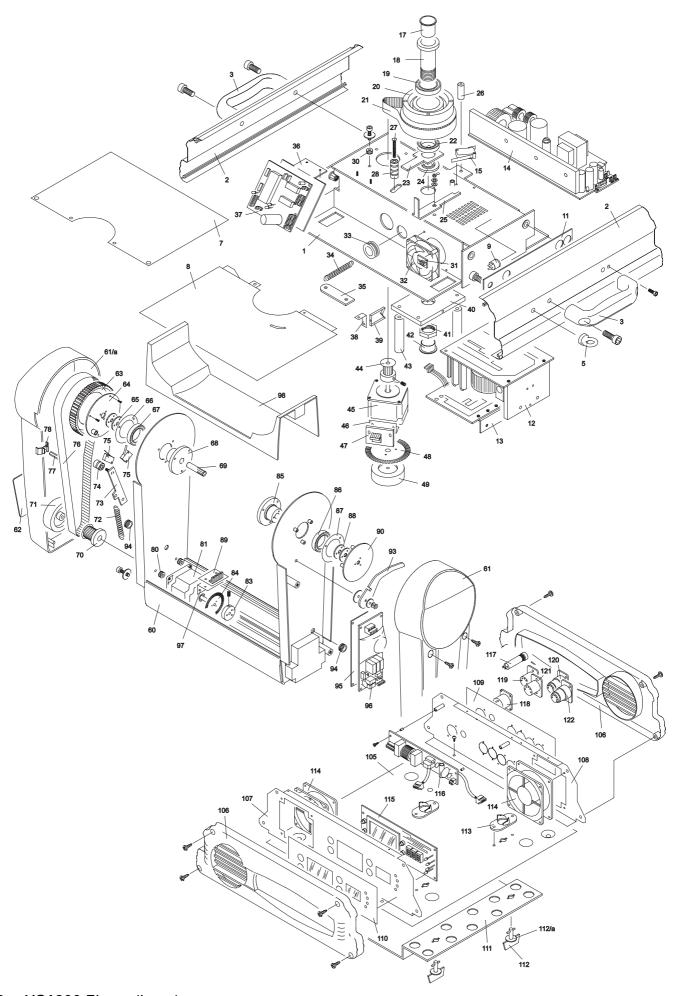
XS 1200 S	PARE PARTS
SP1	BASE BOX
SP2	LATERAL COVER
SP3	HANDLES
SP5	SAFETY HOOK
SP7	UNSHAPED BASE COVER
SP8	SHAPED BASE COVER
SP9	THERMAL SWITCH
SP11	BALLAST COOLING PLATE
SP12	EB 700 BOARD
SP13	BRIDGE 700
SP14	PFC BOARD
SP15	MICROSWITCH
SP16	POWER BOARD 700
SP17	BUSH
SP18	PAN PIN
SP19	ROLLER BEARING
SP20	HUB
SP21	BELT 160XL
SP22	ROLLER BEARING
SP23	PAN LOCK
SP24	PAN STOP SPACER
SP25	PAN STOP
SP26	SPACER
SP27	SCREW
SP28	BEARING
SP30	PACKING RING
SP31	BASE FAN P.C.
SP32	FAN
SP33	PACKING RING
SP34	SPIRAL SPRING
SP35	PAN IDLERS
SP36	CIRCUIT PLATE
SP37	PT 700 BOARD
SP38	PAN CABLE SUPPORT
SP39	PROTECTION WIRE PLATE
SP40	PAN PLATE
SP41	NUT
SP42	LOWER PAN BUSH
SP43	SPACER
SP44	PULLEY
SP45	MOTOR
SP46	ENCODER SUPPORT
SP47	ENCODER 250 P.C.
SP48	ENCODER 50/1
SP49	PAN FLYWHEEL

SP60	BRACKET
SP61A	LATERAL BRACKET
SP61	LATERAL BRACKET
SP62	ADHESIVE
SP63	TILT CROWN
SP64	CROWN SUPPORT
SP65	GEAR
SP66	FIXING FLANGE
SP67	BEARING
SP68	TILT HUB
SP69	WIRE PROTECTION
SP70	PULLEY
SP71	TILT FLYWHEEL
SP72	SPRING
SP73	TILT IDLERS
SP74	BEARING
SP75	MICROSWITCH
SP76	BELT 250XL037
SP77	SPACER
SP78	WIRE CLIP
SP80	PACKING RING
SP81	MOTOR
SP83	HUB
SP84	ENCODER 50/1
SP85	HUB
SP86	BEARING
SP87	FIXING FLANGE
SP88	TILT GEAR
SP89	ENCODER 250 BOARD
SP90	CROWN SUPPORT
SP93	TILT STOP
SP94	PACKING RING
SP95	BAKELITE PLATE
SP96	IG7 EB BOARD
SP97	ENCODER SUPPORT PLATE
SP105	LOWER COVER PLATE
SP106	BASE LATERAL COVER
SP107	LATERAL BASE
SP108	LATERAL BASE
SP109	PANEL ADHESIVE
SP110	DISPLAY ADHESIVE
SP111	FIXING PLATE
SP112	PIN
SP112/a	RETAINER
SP113	PIN LOCK
SP114	FAN

_	
SP115	DMX BOARD
SP116	MAIN FILTER BOARD
SP117	FUSEHOLDER
SP118	POWER INPUT CONNECTOR
SP119	3 PIN MALE CONNECTOR
SP120	3 PIN FEMALE CONNECTOR
SP121	5 PIN MALE CONNECTOR
SP122	5 PIN FEMALE CONNECTOR
SP141	FRONTAL PANEL
SP142	SPACER
SP144	SCREW
SP146	ZOOM SLIDE
SP147	ZOOM GUIDE BUSHING
SP148	BLOCK
SP148A	SPACER
SP149	ZOOM 700
SP150	LENS PLATE SUPPORT
SP151	LENS
SP152	GASKET
SP152	LENSHOLDER
SP154	HUB
-	SPRING
SP157 SP158	PIN
SP159	MOTOR
SP160	FLYWHEEL
SP161	MOTOR
SP162	P.C. ZOOM CONNECTER
SP163	MOTORHOLDER PANEL
SP164	SPACER
SP165	LOWER FROST BLADE
SP166	UPPER FROST BLADE
SP167	HUB
SP168	BUSH
SP169	BEARING
SP170	GEAR
SP171	PULLEY
SP172	BELT MXL
SP173	GEAR
SP174	HUB
SP175	FROST GLASS
SP176	PRISM
SP177	PRISM
SP178	LENS
SP179	PRISM WHEEL
S181	GLASS WHEEL
SP189	SHUTTER BLADE
SP190	HUB
SP191	MOTOR PLATE
SP193	SUPPORT PLATE
SP194	P.C. BOARD 700 HMB1
SP195	MOTOR
SP196	SHUTTER-ZOOM PANEL
SP197	TILT PLATE
SP198	BLOCK
SP199	GEAR
SP200	BRIDGE SUPPORT
SP201	PULLEY
SP202	BELT MXL
SP204	MOTOR

	ī
SP205	MOTOR
SP206	MOTOR
SP208	ZOOM FLYWHEEL
SP209	PACKING RING
SP210	ELEC. BOARD SUPPORT PLATE
SP212	BRIDGE SUPPORT
SP213	GOBO HOLDER
SP214	SPIRAL SPRING
SP215	ELECTRONIC BOARD
SP225	BEARING
SP226	BEARING HOLDER
SP227	BLOCK PLATE
SP228	BLOCK
SP230	FLANGE
SP231	LENS
SP232	GASKET
SP233	LENS HOLDER
SP234	SCREW
SP235	SCREW
SP236	SPACER
SP236 SP237	MOTOR
SP238	P.C. SENSOR
SP239	SPIRAL SPRING
SP240	FLYWHEEL
SP241	SPACER
SP242	MOTOR
SP244	MOTOR
SP245	GOBO PANEL
SP246	НИВ
SP247	SHAPED RESET GOBO
SP249	MOTOR
SP251	P.C. SENSOR (DOWN)
SP253	P.C. SENSOR (UP)
SP254	MOTOR
SP255	IRIS HUB
SP256	BACK GEAR
SP258	PULLEY SUPPORT
SP259	UNSHAPED RESET GOBO
SP260	STOP IRIS HUB
SP261	BEARING HOLDER
SP262	BEARING HOLDER
SP263	BEARING
SP264	PULLEY
SP265	PULLEY
SP266	BELT MXL
SP267	IRIS
SP268	PULLEY
SP269	BELT MXL
SP270	BEARING
SP271	GEAR
SP272	SPIRAL SPRING
SP273	GOBO WHEEL
SP274	GEAR
SP276	BEARING
SP277	BEARING SUPPORT
SP278	BELT MXL
SP279	PULLEY
	:
I SP280	GOBO WHEEL
SP280 SP281	GOBO WHEEL GLASS WHEEL

SP282	GEAR
SP284	WHEEL
SP285	HUB
SP287	COLOUR WHEEL
SP295	PACKING RING
SP296	SENSOR (DOWN)
SP297	PULLEY
SP298	BELT MXL
SP299	GEAR
SP300	BEARING
SP301	GEAR
SP302	BELT MXL
SP303	PULLEY
SP304	BEARING
SP305	нив
SP306	MOTOR PANLE
SP307	SPACER
SP308	SPACER
SP309	MOTOR
SP310	MOTOR
SP312	PACKING RING
SP313	FAN PANEL
SP314	FAN
SP315	FAN DIAPHRAGM
SP316	PACKING RING
SP317	SPACER
SP318	LENS
SP319	SUPPORT FLANGE
SP320	ALUMINIUM SUPPORT LENS
	ALOMINION SOLI OKI LLINS
	LENS
SP321	LENS
SP321 SP322	LENSHOLDER PLATE
SP321 SP322 SP330	LENSHOLDER PLATE BARN DOOR
SP321 SP322 SP330 SP332	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE
SP321 SP322 SP330 SP332 SP333	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE
SP321 SP322 SP330 SP332 SP333 SP334	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE****
SP321 SP322 SP330 SP332 SP333 SP334 SP335	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338 SP339	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER THERMAL SWITCH
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338 SP339 SP340	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER THERMAL SWITCH MICROSWITCH
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338 SP339 SP340 SP341	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER THERMAL SWITCH MICROSWITCH PACKING RING
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338 SP339 SP340 SP341 Sè342	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER THERMAL SWITCH MICROSWITCH PACKING RING LAMP HOLDER
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338 SP339 SP340 SP341 Sè342 SP343	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER THERMAL SWITCH MICROSWITCH PACKING RING LAMP HOLDER LAMP HOLDER
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338 SP339 SP340 SP341 Sè342 SP343 SP343 SP344	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER THERMAL SWITCH MICROSWITCH PACKING RING LAMP HOLDER BARN DOOR
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338 SP339 SP340 SP341 Sè342 SP343 SP344 SP344 SP346	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER THERMAL SWITCH MICROSWITCH PACKING RING LAMP HOLDER LAMP HOLDER BARN DOOR MORROR REFLECTOR
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338 SP339 SP340 SP341 Sè342 SP343 SP344 SP346 SP347	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER THERMAL SWITCH MICROSWITCH PACKING RING LAMP HOLDER BARN DOOR MORROR REFLECTOR MIRROR SUPPORT PLATE
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338 SP339 SP340 SP341 Sè342 SP343 SP344 SP346 SP347 SP348	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER THERMAL SWITCH MICROSWITCH PACKING RING LAMP HOLDER LAMP HOLDER BARN DOOR MORROR REFLECTOR MIRROR SUPPORT PLATE
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338 SP339 SP340 SP341 Sè342 SP343 SP344 SP346 SP347 SP348 SP349	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER THERMAL SWITCH MICROSWITCH PACKING RING LAMP HOLDER LAMP HOLDER BARN DOOR MORROR REFLECTOR MIRROR SUPPORT PLATE MIRROR SPIRAL SPRING
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338 SP339 SP340 SP341 Sè342 SP343 SP344 SP346 SP347 SP348 SP349 SP350	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER THERMAL SWITCH MICROSWITCH PACKING RING LAMP HOLDER LAMP HOLDER BARN DOOR MORROR REFLECTOR MIRROR SUPPORT PLATE MIRROR SPIRAL SPRING INSULATOR
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338 SP339 SP340 SP341 Sè342 SP343 SP344 SP346 SP347 SP348 SP349 SP350 SP351	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER THERMAL SWITCH MICROSWITCH PACKING RING LAMP HOLDER LAMP HOLDER BARN DOOR MORROR REFLECTOR MIRROR SUPPORT PLATE MIRROR SPIRAL SPRING INSULATOR LAMP HOLDER
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338 SP339 SP340 SP341 Sè342 SP344 SP346 SP347 SP348 SP349 SP350 SP351 SP352	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER THERMAL SWITCH MICROSWITCH PACKING RING LAMP HOLDER LAMP HOLDER BARN DOOR MORROR REFLECTOR MIRROR SUPPORT PLATE MIRROR SPIRAL SPRING INSULATOR LAMP HOLDER LAMP HOLDER
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338 SP339 SP340 SP341 Sè342 SP343 SP344 SP346 SP347 SP348 SP349 SP350 SP351 SP352 SP353	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER THERMAL SWITCH MICROSWITCH PACKING RING LAMP HOLDER LAMP HOLDER BARN DOOR MORROR REFLECTOR MIRROR SUPPORT PLATE MIRROR SPIRAL SPRING INSULATOR LAMP HOLDER LAMP HOLDER BACK LAMP PANEL
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338 SP339 SP340 SP341 Sè342 SP343 SP344 SP346 SP347 SP348 SP349 SP350 SP351 SP352 SP353 SP355	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER THERMAL SWITCH MICROSWITCH PACKING RING LAMP HOLDER LAMP HOLDER BARN DOOR MORROR REFLECTOR MIRROR SUPPORT PLATE MIRROR SPIRAL SPRING INSULATOR LAMP HOLDER LAMP HOLDER LAMP HOLDER BARN DOOR MORROR REFLECTOR MIRROR SUPPORT PLATE MIRROR SPIRAL SPRING INSULATOR LAMP HOLDER LAMP CABLES BACK LAMP PANEL POMMEL
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338 SP339 SP340 SP341 Sè342 SP343 SP344 SP346 SP347 SP348 SP349 SP350 SP351 SP352 SP353 SP355 SP356	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER THERMAL SWITCH MICROSWITCH PACKING RING LAMP HOLDER LAMP HOLDER BARN DOOR MORROR REFLECTOR MIRROR SUPPORT PLATE MIRROR SPIRAL SPRING INSULATOR LAMP HOLDER LAMP HOLDER BARN DOOR MOROR REFLECTOR MIRROR SPIRAL SPRING INSULATOR LAMP HOLDER LAMP CABLES BACK LAMP PANEL POMMEL HUB
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SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338 SP339 SP340 SP341 Sè342 SP344 SP346 SP347 SP348 SP349 SP350 SP351 SP352 SP353 SP355 SP356 SP357	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER THERMAL SWITCH MICROSWITCH PACKING RING LAMP HOLDER LAMP HOLDER BARN DOOR MORROR REFLECTOR MIRROR SUPPORT PLATE MIRROR SPIRAL SPRING INSULATOR LAMP HOLDER LAMP HOLDER LAMP HOLDER BARN DOOR MORROR REFLECTOR MIRROR SUPPORT PLATE MIRROR SPIRAL SPRING INSULATOR LAMP HOLDER LAMP CABLES BACK LAMP PANEL POMMEL HUB PLASTIC HEAD COVER
SP321 SP322 SP330 SP332 SP333 SP334 SP335 SP337 SP338 SP339 SP340 SP341 Sè342 SP343 SP344 SP346 SP347 SP348 SP349 SP350 SP351 SP352 SP353 SP355 SP356 SP357 SP358	LENSHOLDER PLATE BARN DOOR SUPPORT PLATE REAR GROUP ASSEMBLE SUPPORT PLATE**** FIXING BRACKET BARN DOOR P.C FAN CONNECTER THERMAL SWITCH MICROSWITCH PACKING RING LAMP HOLDER LAMP HOLDER BARN DOOR MORROR REFLECTOR MIRROR SUPPORT PLATE MIRROR SPIRAL SPRING INSULATOR LAMP HOLDER LAMP HOLDER LAMP HOLDER BACK LAMP PANEL POMMEL HUB PLASTIC HEAD COVER SCREW



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