

XS 1200

PR-2930M

This product manual contains important information about the safe installation and use of this projector. Please read and follow these instructions carefully and keep this manual in a safe place for future reference.

PR LIGHTING LTD. http://www.pr-lighting.com

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Please note that as part of our ongoing commitment to continuous product development, specifications are subject to change without notice. Whilst every care is taken in the preparation of this manual we reserve the right to change specifications in the course of product improvement. The publishers cannot be held responsible for the accuracy of the information herein, or any consequence arising from them.

Every unit is tested completely and packed properly by the manufacturer. Please make sure the packing and / or the unit are in good condition before installation and use. Should there be any damage caused by transportation, consult your dealer and do not use the unit. Any damage caused by improper use will not be assumed by the manufacturer and / or dealer.

## **ACCESSORIES**

These items are packed together with the projector:

Name	Quantity	Unit	Remark
G clamps	2	Pcs	
XLR cable	1	Pc	5-pin plug
Safety cord	2	Pcs	
Spare gobos	4	Pcs	
This manual	1	Pc	
Ω clamps	2	Pcs	Options

## SAFE USAGE OF THE PROJECTOR

When unpacking and before disposing of the carton check there is no transportation damage before using the projector. Should there be any damage caused by transportation, consult your dealer and do not use the apparatus.

The projector is for indoor use only, IP20. Use only in dry locations. Keep this device away from rain and moisture, excessive heat, humidity and dust. Do not allow contact with water or any other liquids.

The projector is not designed or intended to be mounted directly on to inflammable surfaces.



The projector is only intended for installation, operation and maintenance by qualified personnel.

The projector must be installed in a location with adequate ventilation, at least 50cm from adjacent wall surfaces. Be sure that no ventilation slots are blocked.

Do not project the beam onto inflammable surfaces, minimum distance is 5m. 4 5m E

Avoid direct exposure to the light from the lamp. The light is harmful to the eye.

Do not attempt to dismantle and/or modify the projector in any way.

Electrical connection must only be carried out by qualified personnel.

Before installation, ensure that the voltage and frequency of power supply match the power requirements of the projector.

It is essential that each projector is correctly earthed and that electrical installation conforms to all relevant standards.

Do not connect this device to any other types of dimmer apparatus.

Make sure that the power-cord is never crimped or damaged by sharp edges. Never let the power-cord come into contact with other cables. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.

Keep the lamp clean. Do not touch the lamp glass with bare hand.

The projector should always be installed with a secondary safety fixing. A safety cord is supplied for this; it should be attached as shown in "installing the projector" section.

The lamp used in this projector is a discharge lamp. After switching off don't attempt to restart the projector until lamp has cooled, this will require approx 15 minutes. Switching the lamp on and off at short intervals will reduce the life of both the lamp and the projector. But occasional breaks will prolong the life of the lamp and projector.

Never run the projector without a lamp.

The lamp shall be changed if it has become damaged or thermally deformed.

Shields and lens shall be changed if they have become visibly damaged to such an extent than their effectiveness is impaired, for example by cracks or deep scratches.

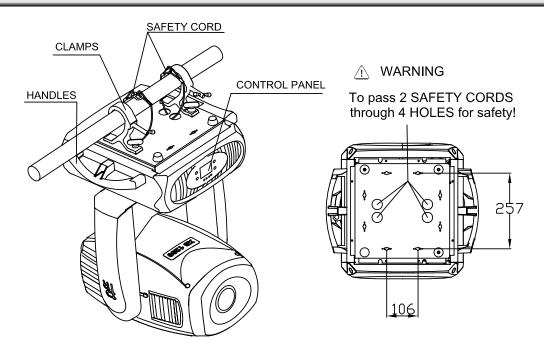
Exterior surface temperatures of the luminaire after 5 minutes operation is 80°C, when steady state is achieved 120°C,

There is no user serviceable parts inside the projector, do not open the housing and never operate the projector with the covers removed.

Always disconnect from the mains, when the device is not in use or before cleaning it or before attempting any maintenance work!

If you have any questions, don't hesitate to consult your dealer or manufacturer.

## INSTALL THE PROJECTOR



Take 2 clamps and 2 safety cords out from the package and mount 2 clamps on the underside of fixture with 2 retainers attached to each clamp. Hang the fixture on the structure and fasten the screws attached to each clamp. (See the **WARNING** on the underside of the base as shown above) **To pass 2 SAFETY CORDS through 4 HOLES for safety!** Always ensure that the projector is firmly anchored to avoid vibration and slipping whilst functioning. Always ensure that the structure that you are going to mount the projector is secure and is strong enough to support a weight of XS 1200. **WARNING:** 

- 1. Unlock the PAN and TILT before the 1<sup>st</sup> application of projector for safety.
- 2. The projector MUST be lifted or carried by the HANDLES instead of clamps.
- 3. For safety the safety cord should afford 10 times of the unit's weight.

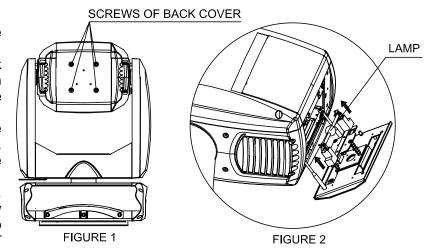
## FITTING THE LAMP

Lock the yoke before fitting/replacing the

Loosen 4 screws and open the back cover lightly through slip bar, you can see the structure as shown in the figure 2 above.

Hold the ends of worn-out lamp and take it out according to direction of the arrow. Then take the other side out by the same way.

Note: don't touch the bulb of the new lamp with bare hand so as not to influence the beam output; the PST



(pumping stem tip off) on the bulb facing the rear cover and being not in the beam's way is a must and aids cooling. Close the rear cover and fasten 4 screws.

**NOTE:** The convex of the nuts should face to the side when fitting the lamp.

WARNING: The MSR series are high-pressure lamps with external igniters (ﷺ). Care should always be taken when handling these lamps. Always read the manufacturers "Instructions for use" enclosed with the lamp.

## POWER SUPPLY-MAINS

Connect the power cord as follows:

L (live) =brown

E (earth) =yellow/green

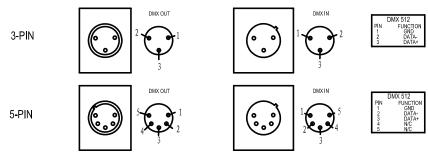
N (neutral) =blue

Use the plug provided to connect the mains power to the projector paying attention to the voltage and frequency marked on the panel of the projector. It is recommended that each projector be supplied separately so that they may be individually switched on and off.

#### **IMPORTANT**

It is essential that each projector is correctly earthed and the electrical installation conforms to all relevant standards.

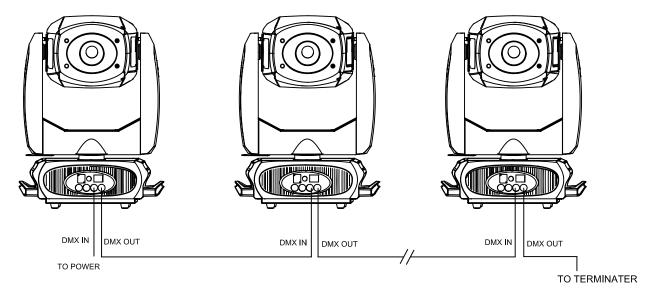
## CONTROL CONNECTION



Connection between controller and projector and between one projector and another must be made with a 2 core-screened cable, with each core having at least a 0.5mm diameter. Connection to and from the projector is via cannon 3 pin (which are included with the projector) or 5 pin XLR plugs and sockets. The XLR's are connected as shown in the figure above.

Note: care should be taken to ensure that none of the pins touch the metallic body of the plug or each other. The body of the plug is not connected in any way. This production accepts digital control signals in protocol DMX512 (1990).

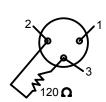
Connect the controller's output to the first fixture's input, and connect the first fixture's output to the second fixture's input and connect the rest fixtures in the same way. Eventually connect the last fixture's output to a DMX terminator as shown in the figure below.



## **DMX TERMINATOR**

In the Controller mode, at the last fixture in the chain, the DMX output has to be connected with a DMX terminator. This prevents electrical noise from disturbing and corrupting the DMX control signals.

The DMX terminator is simply an XLR connector with a  $120\Omega$  (ohm) resistor connected across pins 2 and 3, which is then plugged into the output socket on the last projector in the chain. The connections are illustrated below.



# DMX TERMINATOR CONNECTION

Connect a 120 Ω(OHM) resistor across pins 2 and 3 in an XLR plug and insert into the DMX out socket on the last unit in the chain.



## SETUP OPTIONS-PROJECTOR CONFIGURATION

0					0
0					0
FII	NC	DOWN	LIP	EN	TER

Projector configuration can be set conveniently via pressbutton switch and LCD display. Turn the projector on and the LCD display will show DMX address you set and save last time and it can be reset and saved again as you please.

Launch the projector. Press button ENTER more than 5 seconds to unlock panel.

Press button UP or DOWN if you want to browse through the various Setup Options. There are 8 option codes from **DMX Address** to **Lamp Manual Control**, and each code has a specific function.

Press button ENTER to save your settings or enter the next menu.

Press button UP or DOWN to shift.

Press button FUNC, it will return to the upper menu one by one. If you stay for minutes defaulted will show display status automatically.

## TO SET THE DMX START ADDRESS

Each projector must be given a DMX start address so that the correct projector responds to the correct control signals. This DMX start address is the channel number from which the projector starts to "listen" to the digital control information being sent out from the controller. The projector has 3 DMX modes. There are standard mode, extended mode and short mode. For example standard mode have 24 channels, so set the No. 1 projector's address 001, No. 2 projector's address 025, No. 3 projector's address 049, No. 4 projector's address 073, and so on.

Launch the projector. Press button ENTER or coder knob more than 5 seconds to unlock panel.

Press button FUNC to display DMX address;

Press button UP and DOWN, you can set the address;

Press button ENTER to confirm; In the same time. The GREEN LED will flash one time. It means the setting has been enabled.

Press button FUNC, it will return to the upper menu one by one.

## **OPERATION MENU**

1st LEVEL	2nd LEVEL	3rd LEVEL	4th LEVEL
PR LIGHTING XS 1200	DMX Address=001		
DMX Address	DMX Address 001—493 in Short Mode 001—489 in Standard Mode 001—482 in Extended Mode		
Reset	Reset Are You Sure?		
Config Settings	DMX Mode	DMX Mode Standard 16 DMX Mode Extended 16 DMX Mode Short 8	
Corning Seturings	Lamp Control	Lamp Control By Control Channel Lamp Control By Power On Lamp Control By DMX Present	
	Colour Positions	Colour Positions STEPPED Colour Positions LINEAR	
	F-Gobo Positions	F-Gobo Positions STEPPED F-Gobo Positions LINEAR	
	Pan DMX Invert	Pan DMX Invert OFF Pan DMX Invert ON	
	Tilt DMX Invert	Tilt DMX Invert OFF Tilt DMX Invert ON	
	Pan Tilt Swap	Pan Tilt Swap OFF Pan Tilt Swap ON	
Option Settings	Dimmer Invert	Dimmer Invert OFF Dimmer Invert ON	
	Iris Invert	Iris Invert OFF Iris Invert	
	Zoom Invert	ON Zoom Invert OFF Zoom Invert ON	
	CMY Invert	CMY Invert OFF CMY Invert ON	
	Defaults	Defaults OFF Defaults Restore Defaults	
Display Options	Display Mode	Display On Always Display	
	7/20	Display	

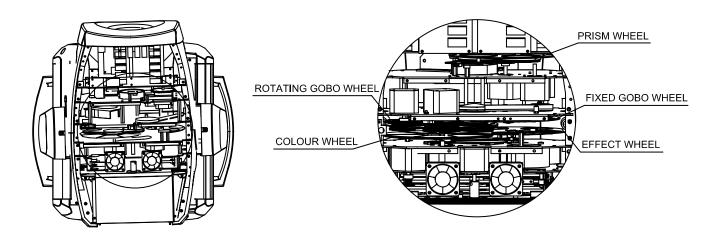
ı ı		Display Invert	
	Display Invert	OFF Display Invert	
		ON	
		Disp Dim Level Min	
		Disp Dim Level 1	
		Disp Dim Level 2	
		Disp Dim Level	
		3 Disp Dim Level	
	D'   D' '	4 Disp Dim Level	
	Display Dimming	5 Disp Dim Level	
		6	
		Disp Dim Level 7	
		Disp Dim Level 8	
		Disp Dim Level 9	
		Disp Dim Level	
		Full Display Contrast	
	Display Contrast	11 XXX(1~21, Default is 11)	
	Lamp Hours	Lamp Hours =	Reset Lamp Hours
	Total Hours	XX Total Hours =	Are You Sure?
<u> </u>	Temperature	XX	Display Board =
		Display Board	XX°C  Driver Board 1 =
		Driver Board 1	Driver Board 1 = XX °C  Driver Board 2 =
		Driver Board 2	Driver Board 2 = XX ℃ Driver Board 3 =
		Driver Board 3	Driver Board 3 = $XX \ ^{\circ}C$
		Pan and Tilt	Pan and Tilt =
Information		Head Sensor	XX °C Head Sensor=
		Display Board	XX °C Display Board =
			X.X.X Driver Board 1 =
		Driver Board 1	X.X.X Driver Board 2 =
	Software Version	Driver Board 2	X.X.X
		Driver Board 3	Driver Board 3 = X.X.X
		Pan and Tilt	Pan and Tilt = X.X.X
		Power Board	X.X.X Power Board = X.X.X
	View DMX values	DMX Channel	AAA
		1=255 Factory Setup	
	Factory Setup	OFF Factory Setup	
Test Modes	Self Test	ON Self Test	
		OFF	
		self test ON	
	Lamp Status	S=X C=X	
Lamp Manual Control	Turn Lamp On		
00.1001	Turn Lamp Off		
	rum Lamp Oll		

## **ERROR MESSAGES**

In the course of launch, The unit examines automatically whether there are errors and if there are, it will display information as follows:

Display	,	Message
Sensor Err S1-N	M1	Rotating Gobo wheel (1# drive board motor 1) error
Sensor Err S1-N	M2	Gobo rotation (1# drive board motor 2) error
Sensor Err S1-N	M3	Effects wheel (1# drive board motor 3) error
Sensor Err S1-N	M4	Colour wheel (1# drive board motor 4) error
Sensor Err S1-N	M5	Focus (1# drive board motor 5) error
Sensor Err S2-N	M1	Prism (2# drive board motor 1) error
Sensor Err S2-N	M2	Prism rotation (2# drive board motor 2) error
Sensor Err S2-N	M3	Fixed Gobo wheel (2# drive board motor 3) error
Sensor Err S3-N	M1	CYM-cyan (3# drive board motor 1) error
Sensor Err S3-N	M2	CYM-yellow (3# drive board motor 2) error
Sensor Err S3-N	M3	CYM-magenta (3# drive board motor 3) error
Sensor Err S3-N	M5	Zoom(3# drive board motor 5) error

## **REPLACING GOBOS**



Disconnect the fixture from power. Lock Tilt. Carefully lift off the cover by undoing the 6 screws.

For gobos replacement on the fixed gobo: Remove the gobo and insert the new one into the position by hands.

For gobos replacement on the rotating gobo wheel: Remove the gobo holder with gobo from gobo wheel by hands.

Pull out the spring and drop the old gobo out of the holder.

Insert the new gobo into the holder, and then insert the spring with the narrow end against the gobo.

Push the end of the spring in under lip of the holder.

Pick the spring clip up and put the gobo holder back into the position, if necessary, a small screwdriver will be helped.

**Note:** If the gobo is a glass one, it should be touched with glabrous, clean and soft tissue or cloth matted between hand and glass instead of with bare hand.

Close the rear cover and fasten 6 screws.

## **DMX PROTOCOL**

Short mode	Standard mode	Extended mode	FUNCTION	DMX	DESCRIPTION
				000-010	Black
				011-025	Open
1	1	1	Strobe	026-225	Strobe speed from slow to fast
				226-246	Macro
				247-255	Open
			Diaman	000-003	Black
2	2	2	Dimmer	004-255	Dimming from dark to light (0-100%)
		3	Dimmer Fine	000-255	Dimmer in 16 Bit precision
				000-016	White
				017-035 036-054	Yellow+ Magenta=Red Yellow
	_			055-073	Yellow+ Cyan=Green
3	3	4	CYM Macro	074-092	Cyan
				093-110	Cyan+ Magenta=Blue
				111-128	Magenta
				129-255	CYM colour mixing from slow to fast
4	4	5	CYM-Cyan	000-255	Cyan (Linear 0-100%)
		6	CYM-Cyan Fine	000-255	Cyan in 16 Bit precision
5	5	7	CYM-Yellow	000-255	Yellow (Linear 0-100%)
		8	CYM-Yellow Fine	000-255	Yellow in 16 Bit precision
6	6	9	CYM-Magenta	000-255	Magenta (Linear 0-100%)
		10	CYM-Magenta Fine	000-255	Magenta in 16 Bit precision
				000-016	White
				017-024	White/colour 1
				025-032	Colour 1
				033-040	Colour 1/colour 2
				041-048	Colour 2
				049-056	Colour 2/colour 3
				057-064	Colour 3
				065-072	Colour 3/colour 4
7	7	11	Colour Wheel	073-080	Colour 4
				081-088	Colour 4/colour 5
				089-096	Colour 5
				097-104	Colour 5/colour 6
				105-112	Colour 6
				113-120	Colour 6/ white
				121-127	white
				128-191	Rainbow rotation speed from slow to fast
				192-255	Rainbow reverse rotation from slow to fast
				000-135	Iris from large to small (0-100%)
8	8	12	Iris	136-167	Macro function 1
				168-199	Macro function 2

				200 224	Macro function 3
			200-231		
			232-235		Random strobe
			236-239		From open to closed
			240-243		From closed to open
				244-248	From closed to open
				249-255	Open
		13	Iris Fine	000-255	Iris in 16 Bit precision
				000-016	Clear
				017-032	Gobo1
				033-048	Gobo 2
				049-064	Gobo 3
				065-080	Gobo 4
				081-096	Gobo 5
				097-112	Gobo 6
			Fixed Oak	113-127	Gobo 7
9	9	14	Fixed Gobo Wheel	128-149	Rotation speed from slow to fast
				150-171	Reverse rotation speed from slow to fast
				172-183	Gobo1 shake speed from slow to fast
				184-195	Gobo 2 shake speed from slow to fast
			196-207	Gobo 3 shake speed from slow to fast	
				208-219	Gobo 4 shake speed from slow to fast
				220-231	Gobo 5 shake speed from slow to fast
				232-243	Gobo 6 shake speed from slow to fast
				244-255	Gobo 7 shake speed from slow to fast
				000-021	white
				022-042	Gobo1
				043-063	Gobo 2
		064-085	Gobo 3		
			086-106	Gobo 4	
					Gobo 5
10	10	15	Rotating Gobo Wheel	128-156	Rotation speed from slow to fast
			VVIICCI	157-185	Reverse rotation speed from slow to fast
				186-199	Gobo 1 shake speed from slow to fast
				200-213	Gobo 2 shake speed from slow to fast
				214-227	Gobo 3 shake speed from slow to fast
			228-244	Gobo 4 shake speed from slow to fast	
			245-255	Gobo 5 shake speed from slow to fast	
				000-119	0~540°index
	11 11 16 Gobo rotation			120	Stop rotating
11			121-187	Rotation speed from slow to fast	
				188	Stop rotating
			189-255	Reverse rotation speed from slow to fast	
	12	17	Gobo rotation	000-255	Gobo rotation in 16 Bit precision
	14	11	Fine		·
12	13	18	Prism / Frost	000-050	Open
				051-101	3 facet prism

				102-152	Linear lens
				153-203	Deep soft lens
				204-255	Light soft lens
				000-127	Prism index (0~540°)
13	14	19	Prism rotation	128-188	Rotation speed from slow to fast
13	14	19	Prismiolation	189-195	Stop in current position
				196-255	Reverse rotation speed from slow to fast
				000-050	White
				051-101	СТВ
14	15	20	Effect Wheel	102-152	Bi-colour filter
				153-203	СТО
				204-255	Ultraviolet filter
15	16	21	Focus	000-255	Linearly focusing
		22	Focus Fine	000-255	Focus in 16 precision
16	17	23	Zoom	000-255	From large to small
		24	Zoom Fine	000-255	Zoom in 16 precision
17	18	25	25 Beam Angle Lens	000-020	Small angle (not beam angle lens)
17	10	25		021-255	Large angle (beam angle lens insert in)
18	19	26	Pan	000-255	Pan rotation 540°
	20	27	Pan Fine	000-255	Pan rotation in 16 precision
19	21	28	Tilt	000-255	Tilt rotation 270°
	22	29	Tilt Fine	000-255	Tilt rotation in 16 precision
	23	30	Pan & Tilt speed	000-255	Pan&Tilt speed from fast to slow
				000-047	Reserved
				048-080	Reset
				081-112	Reserved
20	24	31	Control	113-144	Lamp off ( stop in DMX value for 10 s)
20	24	JI	Control	145-168	Reserved
				169-200	Lamp power reduced to 50%
				201-223	Reserved
				224-255	Lamp on (See remark below)

### Remark:

If you intend to turn on/off the lamp via the last channel of the controller, don't attempt to push the channel to value 224-255 immediately after turning it off, or push the slide bar to value 224-255 to wait it cooling. Under these 2 circumstances, the lamp can not be turned on. The right operation is: turn it off—cool down—push the slide bar to turn it on.

## LED INDICATION

	On	DMX signal OK
Green	Off	No DMX signal
	Flash	DMX signal error
Yellow	On	Setting the panel
Blue	On	Power
Red/Green	Red	Running self test mode
	Green	Reserved

## **MAINTENANCE**

If the projector's lens becomes damaged or broken it should be replaced. If the lamp becomes damaged or deformed in any way it must be replaced. If the light from the lamp appears dim this would normally indicate that it is reaching the end of its life and it should be changed at once, aged lamps run to the extremity of their life might explode. If the projector does not function, check the fuses on the power socket of the projector, they should only be replaced by fuses of the same specification. Should these be damaged call a qualified technician before replacement. The projector has thermal protection device that will switch off the projector in case of overheating, should either of these operate, check that the fans are not blocked, and if they are dirty clean them before switching on the projector again. Check that the fans are operational, if not call a qualified technician.

Any maintenance work should only be carried out by qualified technicians.

### LUBRICATION

To ensure the continuous rotation of the rotating gobos and linear motion of the lens for focusing, it is recommended that the bearings for the rotating gobos and the 2 shafts for the focusing lens holder be lubricated periodically, preferably every two months. Use only high quality, high-temperature resistant grease instead of any type of oil. When lubricating the bearings, a syringe with a fine needle is the easiest way to introduce the grease to the bearings around each gobo.

## KEEPING THE PROJECTOR CLEAN

To ensure the reliability of the projector it should be kept clean. It is recommended that the fans should be cleaned every 15 days. The lens and dichroic colour filters should also be regularly cleaned to maintain an optimum light output. **Do NOT use any type of solvent on dichroic colour filters.** 

Cleaning frequency depends on the environment in which the fixture operates: damp, smoke or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics. A soft cloth and typical glass cleaning products should be used in cleaning. It is recommended to clean the external optics at least once every 20 days and clean the internal optics at least once every 30 / 60 days.

Do not use any organic solvent, e.g. alcohol, to clean the reflector mirror, dichroic colour filters or housing of the apparatus.

## TROUBLESHOOTING

PROBLEM	ACTION			
The projector doesn't switch on	Check the fuse on the power socket.			
	Replace the lamp.			
The lamp comes on but the projector	Make sure that the projector is correctly configurated.			
doesn't respond to the controller	Replace or repair the DMX cable.			
The projector only functions intermittently	Make sure the fan is working and not dirty.			
Defective projection	Check the lenses are not broken.			
Delective projection	Remove dust or grease from the lenses.			
	Make sure the lamp is installed correctly.			
The project image appears to have a halo	> Carefully clean the optical group lenses and the projector			
	components.			
The beauty surround disc	Check the optics is clean.			
The beam appears dim	Replace with a new lamp of the specified type and rating.			

## **TECHNICAL DATA**

#### **VOLTAGES:**

220V/230V AC, 50/60Hz

Options: 200/240V AC, 50/60Hz

#### **POWER CONSUMPTION:**

1300W@220V

#### LAMP:

PHILIPS MSR Gold 1200 SA/2 DE

Colour Temperature 7500°K

Socket SFc10-4, double ended Manufacturers Rated Lamp Life 750 Hours replacement

Or

OSRAM SharXS HTI 1200 W/D7/60

Colour Temperature 6000°K

Socket SFc10-4, double ended Manufacturers Rated Lamp Life 750 Hours replacement

#### **COLOURS:**

Smooth CYM colour mixing system with macro 1 wheel with 6 dichroic colour filters plus white With variable speed bi-directional rainbow effect Step/linear colour changing is available

#### **COLOUR TEMPERATURE CORRECTION:**

Linearly colour temperature correction

#### GOBOS:

#### 1 Rotating gobo wheel:

5 interchangeable gobos+ white, glass or metal gobos can be fixed Indexable, bi-directionally rotatable at variable speeds

#### 1 Fixed gobo wheel:

7 interchangeable gobos+ white

bi-directional wheel scrolling at variable speeds

Gobo diameter: Φ36.3mm

Gobo image diameter: Φ31.5mm

#### PRISM/ FROST:

1x linear lens, 1x3 facet prism, 1x deep frost filter, 1x light frost filter, indexing, bi-directionally rotatable at variable speeds

#### **EFFECT FILTERS:**

1x CTB,1x CTO, 1x bi-colour filter, 1x ultraviolet

#### **FOCUS:**

DMX controlled focus

#### **DIMMER:**

0-100% linearly adjustable

#### IRIS:

5-100% linearly adjustable

Macros

#### SHUTTER:

Double shutter blades, 0.3~25F.P.S

#### **HEAD MOVEMENT:**

Pan 540°, Tilt 270° with auto position correction

#### **BEAM ANGLE:**

 $12^{\circ}~$  -22  $^{\circ}~$  linear zoom, additional extended zoom range up to 26  $^{\circ}~$ 

#### **CONTROL:**

DMX512, 3 pin, 5 pin interfaces

RDM control protocol

20 channels in short mode, 24 channels in standard mode, and 31 channels in extended mode.

Self-test mode

## **OTHER FUNCTIONS:**

Adjustable Pan & Tilt speed

Fixture and lamp usage time display

LCD display

Energy saving function of the ballast

Built-in analyzer for easy fault finding, error messages

Modular construction for easy maintenance

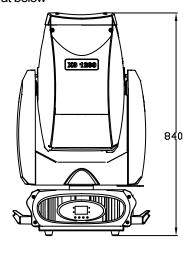
#### **HOUSING:**

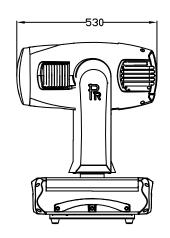
Composite plastic, IP20

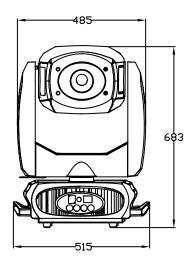
#### **WEIGHT:**

52kg

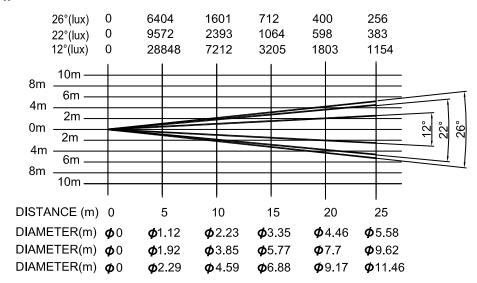
**SIZES:**See at below

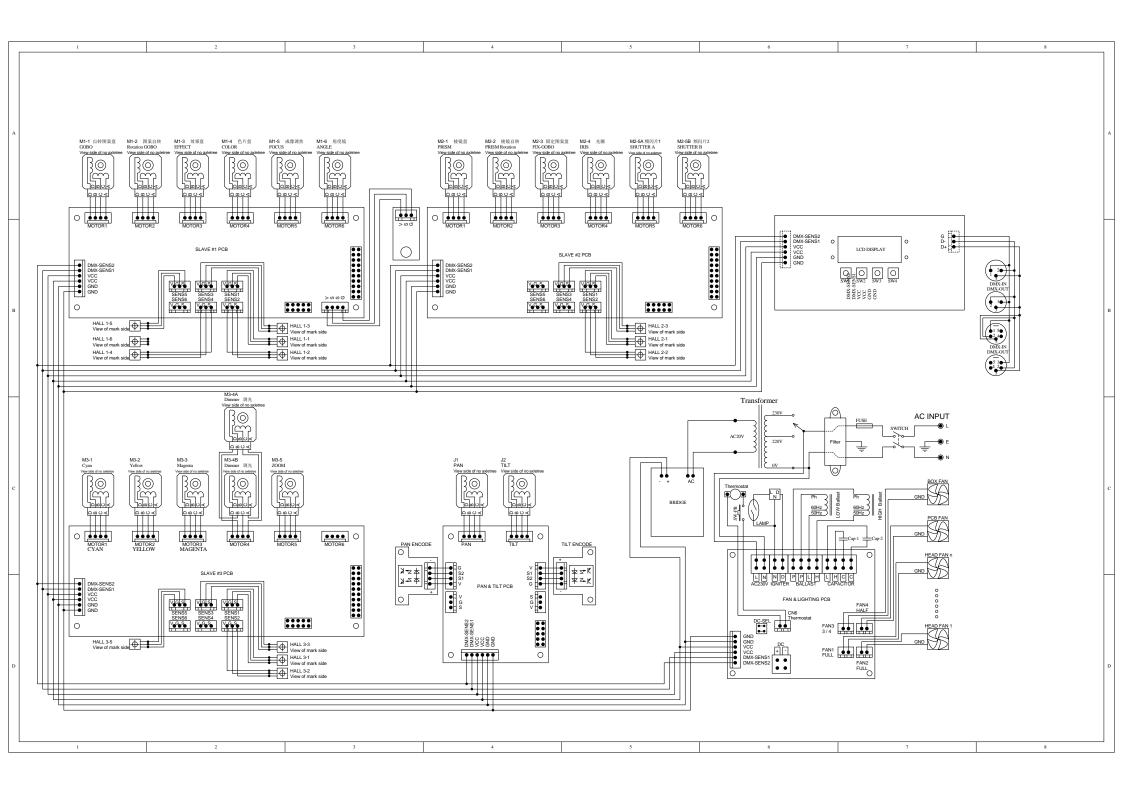






### LIGHT OUTPUT:





## COMPONENT ORDER CODES

MAINS FILTER	NAME	PART NO.	QUANTITY	REMARK
CAPACITOR         140010043         2         70µF/370V           BALLAST         040070059         2         230V/50-60Hz, 575W           BALLAST         040070094         1         1200W 180~284V AC           IGNITOR         040090036         1         575-1200W 6~8KV           LAMP         100050064         1         MSR 1200 SA/2 DE           TILT DRIVE BELT         290151323         1         HTD-804-3M           PAN DRIVE BELT         290151322         1         HTD-531-3M           FAN IN BASE         030060056         1         TFD-531-3M           FAN IN BASE         030060055         2         FAN IN FRONT SIDE         030060053         2           FAN IN FRONT SIDE         030060053         2         2         SHUTTER BLADE MOTOR         030040080         3           FIXED GOBO WHEEL MOTOR         030040080         0         SHUTTER BLADE MOTOR         030040080         1           FIXED GOBO WHEEL MOTOR         030040084         1         IRIS MOTOR         1           SHUTTER BLADE MOTOR         030040088         1         PRISM MOTOR         030040088         1           PRISM MOTOR         030040121         1         DIMMER MOTOR         030040121         1	MAINS FILTER	193020005	1	20A 115/250VAC
BALLAST         040070059         2         230V/50-60Hz, 575W           BALLAST         040070094         1         1200W 180-264V AC           IGNITOR         040090036         1         575-1200W 6-8KV           LAMP         100050064         1         MSR 1200 SA/2 DE           TILT DRIVE BELT         290151323         1         HTD-804-3M           PAN DRIVE BELT         290151322         1         HTD-531-3M           FAN IN BASE         030060056         1         HTD-531-3M           FAN IN BASE         030060055         2         FAN IN FRONT SIDE         030060055         2           FAN ON THE COVER         030060054         3         3         FARDAD THE COVER         330060054         3         3           FAN IN FRONT SIDE         030060052         2         2         SHUTTER BLADE MOTOR         030040080         FATED GOBO WHEEL MOTOR         030040080         1         1         GOBO ROTATION MOTOR         030040094         1         030040084         1         1         IIII         DIMMER MOTOR         030040088         1         1         DIMMER MOTOR         030040088         1         1         DIMMER MOTOR         030040093         1         1         DIMMER MOTOR         030040112	THERMOSTAT	190010074	1	150℃
BALLAST 040070094 1 1200W 180~264V AC IGNITOR 040090036 1 575~1200W 6~8KV LAMP 100050064 1 MSR 1200 SAZ DE TILT DRIVE BELT 290151323 1 HTD-804-3M PAN DRIVE BELT 290151322 1 HTD-804-3M PAN DRIVE BELT 290151322 1 HTD-831-3M FAN IN BASE 030060056 1 FAN IN BASE 030060056 2 FAN IN FRONT SIDE 030060055 2 FAN IN FRONT SIDE 030060053 2 FAN ON THE COVER 030060054 3 FAN NEAR THE CYM 030060054 3 FAN NEAR THE CYM 030060052 2 SHUTTER BLADE MOTOR 030040080 FIXED GOBO WHEEL MOTOR 030040080 FIXED GOBO WHEEL MOTOR 030040084 1 FAN IN FORT 04 SAM OF THE COVER 030040084 1 FAN IN FORT 05 SAM OF THE COVER 030040094 1 FAN IN FORT 05 SAM OF THE COVER 030040094 1 FAN IN FORT 05 SAM OF THE COVER 05 SAM	CAPACITOR	140010043	2	70μF/370V
IGNITOR	BALLAST	040070059	2	230V/50-60Hz, 575W
LAMP	BALLAST	040070094	1	1200W 180~264V AC
TILT DRIVE BELT 290151323 1 HTD-804-3M PAN DRIVE BELT 290151322 1 HTD-531-3M  FAN IN BASE 030060056 1 FAN IN BACK SIDE 030060055 2 FAN IN FRONT SIDE 030060053 2 FAN ON THE COVER 030060054 3 FAN NEAR THE CYM 030060052 2 SHUTTER BLADE MOTOR 030040080 FIXED GOBO WHEEL MOTOR 030040094 1 GOBO ROTATION MOTOR 030040084 1 IRIS MOTOR 030040088 1 PRISM MOTOR 030040093 1 DIMMER MOTOR 030040093 1 DIMMER MOTOR 030040094 1 ANGLE LENS MOTOR 030040093 1 DIMMER MOTOR 030040029 ROTATING GOBO WHEEL MOTOR 030040121 1 ANGLE LENS MOTOR 030040112 1 CYM MOTOR 030040114 3 FOCUS MOTOR 030040114 3 FOCUS MOTOR 030040112 1 COLOUR WHEEL MOTOR 030040112 1 COLOUR WHEEL MOTOR 030040112 1 COLOUR WHEEL MOTOR 030040112 1 FAN MOTOR 030040112 1 COLOUR WHEEL MOTOR 030040112 1 COLOUR WHEEL MOTOR 030040127 1 TILT MOTOR 030040132 1 EFFECT WHEEL ROTATION MOTOR 030040132 1 EFFECT WHEEL ROTATION MOTOR 030040125 1 ZOOM MOTOR 030040094 2 PANTILT DRIVE PCB 230020573 1 MOTOR DRIVE PCB 1 230020570 1 MOTOR DRIVE PCB 2 230020571 1 MOTOR DRIVE PCB 2 230020572 1 DISPLAY PCB	IGNITOR	040090036	1	575~1200W 6~8KV
PAN DRIVE BELT FAN IN BASE 030060056 1 FAN IN BACK SIDE FAN IN BACK SIDE FAN IN FRONT SIDE 030060053 2 FAN ON THE COVER 030060054 3 FAN NEAR THE CYM 030060052 2 SHUTTER BLADE MOTOR GOBO ROTATION MOTOR 030040084 1 RISIS MOTOR DIMMER MOTOR 030040093 1 DIMMER MOTOR 030040093 1 DIMMER MOTOR 030040094 1 ANGLE LENS MOTOR 030040029 ROTATING GOBO WHEEL MOTOR 0300400112 CYM MOTOR 030040114 3 FOCUS MOTOR 030040121 1 COLOUR WHEEL MOTOR 030040121 1 PAN MOTOR 030040121 1 COLOUR WHEEL MOTOR 030040121 1 COLOUR WHEEL MOTOR 030040121 1 COLOUR WHEEL MOTOR 030040125 1 TILT MOTOR PRISM ROTATION MOTOR 030040125 1 ZOOM MOTOR 030040094 2 PANTILT DRIVE PCB 230020573 1 MOTOR DRIVE PCB 1 230020574 1 DISPLAY PCB	LAMP	100050064	1	MSR 1200 SA/2 DE
FAN IN BASE	TILT DRIVE BELT	290151323	1	HTD-804-3M
FAN IN BACK SIDE         030060055         2           FAN IN FRONT SIDE         030060053         2           FAN ON THE COVER         030060054         3           FAN NEAR THE CYM         030060052         2           SHUTTER BLADE MOTOR         030040080         1           FIXED GOBO WHEEL MOTOR         030040094         1           GOBO ROTATION MOTOR         030040084         1           IRIS MOTOR         030040088         1           SHUTTER BLADE MOTOR         030040088         1           PRISM MOTOR         030040093         1           DIMMER MOTOR         030040121         1           DIMMER MOTOR         030040121         1           ANGLE LENS MOTOR         030040122         1           CYM MOTOR         030040112         1           CYM MOTOR         030040112         1           COLUR WHEEL MOTOR         030040112         1           PAN MOTOR         030040121         1           TILT MOTOR         030040122         1           PRISM ROTATION MOTOR         030040132         1           PEFECT WHEEL ROTATION MOTOR         030040125         1           ZOOM MOTOR         030040094         2<		290151322	1	HTD-531-3M
FAN IN FRONT SIDE         030060053         2           FAN ON THE COVER         030060054         3           FAN NEAR THE CYM         030060052         2           SHUTTER BLADE MOTOR         030040080         1           FIXED GOBO WHEEL MOTOR         030040094         1           GOBO ROTATION MOTOR         030040084         1           IRIS MOTOR         030040088         1           SHUTTER BLADE MOTOR         030040093         1           DIMMER MOTOR         030040093         1           DIMMER MOTOR         030040121         1           ANGLE LENS MOTOR         030040029         1           ROTATING GOBO WHEEL MOTOR         030040112         1           CYM MOTOR         030040114         3           FOCUS MOTOR         030040121         1           COLOUR WHEEL MOTOR         030040121         1           PAN MOTOR         030040122         1           TILT MOTOR         030040127         1           TILT MOTOR         030040125         1           PRISM ROTATION MOTOR         030040125         1           ZOOM MOTOR         030040094         2           PANTILT DRIVE PCB         230020573         1	FAN IN BASE	030060056		
FAN ON THE COVER 030060054 3 FAN NEAR THE CYM 030060052 2 SHUTTER BLADE MOTOR 030040080 FIXED GOBO WHEEL MOTOR 030040094 1 GOBO ROTATION MOTOR 030040084 1 IRIS MOTOR 030040088 1 SHUTTER BLADE MOTOR 030040088 1 SHUTTER BLADE MOTOR 030040088 1 SHUTTER BLADE MOTOR 030040093 1 DIMMER MOTOR 030040093 1 DIMMER MOTOR 030040121 1 ANGLE LENS MOTOR 030040029 ROTATING GOBO WHEEL MOTOR 030040112 1 CYM MOTOR 030040114 3 FOCUS MOTOR 030040114 1 COLOUR WHEEL MOTOR 030040112 1 COLOUR WHEEL MOTOR 030040112 1 PAN MOTOR 030040112 1 FAN MOTOR 030040112 1 PAN MOTOR 03004012 1 FAN MOTOR 03004012 1 COLOUR WHEEL MOTOR 03004012 1 PAN MOTOR 03004012 1 FAN MOTOR 03004012 1 PAN MOTOR 03004012 1 DISPLAY PCB 230020573 1 MOTOR DRIVE PCB 2 230020574 1 DISPLAY PCB 230020574 1		030060055		
FAN NEAR THE CYM		030060053		
SHUTTER BLADE MOTOR		030060054		
FIXED GOBO WHEEL MOTOR   030040094   1	FAN NEAR THE CYM	030060052	2	
GOBO ROTATION MOTOR 030040084 1 IRIS MOTOR 030040088 1 SHUTTER BLADE MOTOR 030040093 1 DIMMER MOTOR 030040093 1 DIMMER MOTOR 030040121 1 ANGLE LENS MOTOR 030040121 1 ANGLE LENS MOTOR 030040112 1 CYM MOTOR 030040114 3 FOCUS MOTOR 030040114 1 COLOUR WHEEL MOTOR 030040112 1 COLOUR WHEEL MOTOR 030040112 1 COLOUR WHEEL MOTOR 030040112 1 PAN MOTOR 030040112 1 PRISM ROTATION MOTOR 030040127 1 TILT MOTOR 030040132 1 EFFECT WHEEL ROTATION MOTOR 030040132 1 EFFECT WHEEL ROTATION MOTOR 030040125 1 ZOOM MOTOR 030040125 1 ZOOM MOTOR 030040094 2 PAN/TILT DRIVE PCB 230020573 1 MOTOR DRIVE PCB 1 230020570 1 MOTOR DRIVE PCB 2 230020571 1 MOTOR DRIVE PCB 3 230020572 1 DISPLAY PCB 230020574 1	SHUTTER BLADE MOTOR	030040080		
RIS MOTOR	FIXED GOBO WHEEL MOTOR	030040094	1	
SHUTTER BLADE MOTOR	GOBO ROTATION MOTOR	030040084	1	
SHUTTER BLADE MOTOR	IRIS MOTOR	020040000	1	
DIMMER MOTOR         030040093         1           DIMMER MOTOR         030040121         1           ANGLE LENS MOTOR         030040029         1           ROTATING GOBO WHEEL MOTOR         030040112         1           CYM MOTOR         030040114         3           FOCUS MOTOR         030040121         1           COLOUR WHEEL MOTOR         030040112         1           PAN MOTOR         030040127         1           TILT MOTOR         030040132         1           PRISM ROTATION MOTOR         030040132         1           EFFECT WHEEL ROTATION MOTOR         030040094         2           PAN/TILT DRIVE PCB         230020573         1           MOTOR DRIVE PCB 1         230020570         1           MOTOR DRIVE PCB 2         230020571         1           MOTOR DRIVE PCB 3         230020574         1           DISPLAY PCB         230020574         1	SHUTTER BLADE MOTOR	030040066	1	
DIMMER MOTOR         1           DIMMER MOTOR         030040121         1           ANGLE LENS MOTOR         030040029         1           ROTATING GOBO WHEEL MOTOR         030040112         1           CYM MOTOR         030040114         3           FOCUS MOTOR         030040121         1           COLOUR WHEEL MOTOR         030040112         1           PAN MOTOR         030040127         1           TILT MOTOR         030040127         1           PRISM ROTATION MOTOR         030040132         1           EFFECT WHEEL ROTATION MOTOR         030040125         1           ZOOM MOTOR         030040094         2           PAN/TILT DRIVE PCB         230020573         1           MOTOR DRIVE PCB 1         230020570         1           MOTOR DRIVE PCB 2         230020571         1           MOTOR DRIVE PCB 3         230020572         1           DISPLAY PCB         230020574         1	PRISM MOTOR	020040002	1	
ANGLE LENS MOTOR  ROTATING GOBO WHEEL MOTOR  CYM MOTOR  O30040112  CYM MOTOR  O30040114  S FOCUS MOTOR  COLOUR WHEEL MOTOR  O30040112  PAN MOTOR  PAN MOTOR  TILT MOTOR  PRISM ROTATION MOTOR  PRISM ROTATION MOTOR  COLOUR WHEEL ROTATION MOTOR  PRISM ROTATION MOTOR  O30040127  TILT MOTOR  PRISM ROTATION MOTOR  O30040132  EFFECT WHEEL ROTATION MOTOR  O30040125  ZOOM MOTOR  PAN/TILT DRIVE PCB  230020573  MOTOR DRIVE PCB 1  MOTOR DRIVE PCB 2  230020571  MOTOR DRIVE PCB 3  DISPLAY PCB  230020574  1	DIMMER MOTOR	030040093	1	
ROTATING GOBO WHEEL MOTOR 030040112 1  CYM MOTOR 030040114 3  FOCUS MOTOR 030040121 1  COLOUR WHEEL MOTOR 030040112 1  PAN MOTOR 030040127 1  TILT MOTOR 030040127 1  PRISM ROTATION MOTOR 030040132 1  EFFECT WHEEL ROTATION MOTOR 030040125 1  ZOOM MOTOR 030040094 2  PAN/TILT DRIVE PCB 230020573 1  MOTOR DRIVE PCB 1 230020570 1  MOTOR DRIVE PCB 2 230020571 1  MOTOR DRIVE PCB 3 230020572 1  DISPLAY PCB 230020574 1	DIMMER MOTOR	030040121	1	
CYM MOTOR         030040114         3           FOCUS MOTOR         030040121         1           COLOUR WHEEL MOTOR         030040112         1           PAN MOTOR         030040127         1           TILT MOTOR         030040127         1           PRISM ROTATION MOTOR         030040132         1           EFFECT WHEEL ROTATION MOTOR         030040125         1           ZOOM MOTOR         030040094         2           PAN/TILT DRIVE PCB         230020573         1           MOTOR DRIVE PCB 1         230020570         1           MOTOR DRIVE PCB 2         230020571         1           MOTOR DRIVE PCB 3         230020572         1           DISPLAY PCB         230020574         1	ANGLE LENS MOTOR	030040029		
FOCUS MOTOR         030040121         1           COLOUR WHEEL MOTOR         030040112         1           PAN MOTOR         030040127         1           TILT MOTOR         030040127         1           PRISM ROTATION MOTOR         030040132         1           EFFECT WHEEL ROTATION MOTOR         030040125         1           ZOOM MOTOR         030040094         2           PAN/TILT DRIVE PCB         230020573         1           MOTOR DRIVE PCB 1         230020570         1           MOTOR DRIVE PCB 2         230020571         1           MOTOR DRIVE PCB 3         230020572         1           DISPLAY PCB         230020574         1	ROTATING GOBO WHEEL MOTOR	030040112	1	
FOCUS MOTOR         030040121         1           COLOUR WHEEL MOTOR         030040112         1           PAN MOTOR         030040127         1           TILT MOTOR         030040127         1           PRISM ROTATION MOTOR         030040132         1           EFFECT WHEEL ROTATION MOTOR         030040125         1           ZOOM MOTOR         030040094         2           PAN/TILT DRIVE PCB         230020573         1           MOTOR DRIVE PCB 1         230020570         1           MOTOR DRIVE PCB 2         230020571         1           MOTOR DRIVE PCB 3         230020572         1           DISPLAY PCB         230020574         1	CYM MOTOR	030040114	3	
COLOUR WHEEL MOTOR         030040112         1           PAN MOTOR         030040127         1           TILT MOTOR         030040127         1           PRISM ROTATION MOTOR         030040132         1           EFFECT WHEEL ROTATION MOTOR         030040125         1           ZOOM MOTOR         030040094         2           PAN/TILT DRIVE PCB         230020573         1           MOTOR DRIVE PCB 1         230020570         1           MOTOR DRIVE PCB 2         230020571         1           MOTOR DRIVE PCB 3         230020572         1           DISPLAY PCB         230020574         1		030040121		
PAN MOTOR         030040127         1           TILT MOTOR         030040132         1           PRISM ROTATION MOTOR         030040132         1           EFFECT WHEEL ROTATION MOTOR         030040125         1           ZOOM MOTOR         030040094         2           PAN/TILT DRIVE PCB         230020573         1           MOTOR DRIVE PCB 1         230020570         1           MOTOR DRIVE PCB 2         230020571         1           MOTOR DRIVE PCB 3         230020572         1           DISPLAY PCB         230020574         1		030040112	1	
TILT MOTOR       030040127       1         PRISM ROTATION MOTOR       030040132       1         EFFECT WHEEL ROTATION MOTOR       030040125       1         ZOOM MOTOR       030040094       2         PAN/TILT DRIVE PCB       230020573       1         MOTOR DRIVE PCB 1       230020570       1         MOTOR DRIVE PCB 2       230020571       1         MOTOR DRIVE PCB 3       230020572       1         DISPLAY PCB       230020574       1				
PRISM ROTATION MOTOR         030040132         1           EFFECT WHEEL ROTATION MOTOR         030040125         1           ZOOM MOTOR         030040094         2           PAN/TILT DRIVE PCB         230020573         1           MOTOR DRIVE PCB 1         230020570         1           MOTOR DRIVE PCB 2         230020571         1           MOTOR DRIVE PCB 3         230020572         1           DISPLAY PCB         230020574         1		030040127		
EFFECT WHEEL ROTATION MOTOR       030040125       1         ZOOM MOTOR       030040094       2         PAN/TILT DRIVE PCB       230020573       1         MOTOR DRIVE PCB 1       230020570       1         MOTOR DRIVE PCB 2       230020571       1         MOTOR DRIVE PCB 3       230020572       1         DISPLAY PCB       230020574       1		030040132		
ZOOM MOTOR       030040094       2         PAN/TILT DRIVE PCB       230020573       1         MOTOR DRIVE PCB 1       230020570       1         MOTOR DRIVE PCB 2       230020571       1         MOTOR DRIVE PCB 3       230020572       1         DISPLAY PCB       230020574       1				
PAN/TILT DRIVE PCB       230020573       1         MOTOR DRIVE PCB 1       230020570       1         MOTOR DRIVE PCB 2       230020571       1         MOTOR DRIVE PCB 3       230020572       1         DISPLAY PCB       230020574       1				
MOTOR DRIVE PCB 1       230020570       1         MOTOR DRIVE PCB 2       230020571       1         MOTOR DRIVE PCB 3       230020572       1         DISPLAY PCB       230020574       1				
MOTOR DRIVE PCB 2       230020571       1         MOTOR DRIVE PCB 3       230020572       1         DISPLAY PCB       230020574       1				
MOTOR DRIVE PCB 3         230020572         1           DISPLAY PCB         230020574         1				
DISPLAY PCB 230020574 1			-	
	POWER PCB	230020374 230020227B	1	

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