



# MIRAGE

PR-2014H

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.

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## **Introduction**

Thank you for purchasing our product Mirage PR-2014H. Please read this manual carefully before you start to use this apparatus, that can protect you from personal hurt or loss.

The Mirage PR-2014H adopts advanced procedure of design and manufacturing and measures up to CE standard. The elegant outline design features its special character. The apparatus uses an ELC-7/X 24V/250W lamp and has 8 colours and 8 gobos, and it may be actived by sound. The high quality optical system with adjustable focus produces clear and beautifil beam. Mirage PR-2014H uses international protocal DMX512, and it can be used as Stand-Alone mode, Controller mode, or Master/Slave mode for multi-units synchro runing.

## **Technical Specifications and Features**

Power Supply: AC 230V

Frequence: 50Hz

Power Consumption: 280 W

Lamp: ELC-7/X 24V/250W

Electric Strength: 1.5 KV

Control Signal: Standard DMX 512

Control Mode: Stand-Alone, Master/Slave and Controller

Color Temperature: 3200K

Colors: 8 colors, open and black-out

Gobos: 8 gobos

Dimensions: 320mm(L) x 220mm(W) x 240mm(H)

Weight: 6.5 kg

Others: Adjustable focus

## **Warning!**



**Avoid shock hazard !**



**Hot lamp !**

- ! Refer to qualified technicians only before any service.
- ! Make sure power supply cut off before nstallation, maintenance and installing lamp.
- ! Avoid using the power and lamp which do not match he specified requirements.
- ! The lamp reaches very high temperature. Keep away flammable and explosive materials from the apparatus. Never touch the apparatus with hand when the apparatus is working.
- ! Keep at least a distance of 3m between the apparatus and lamplight striking materials
- ! Avoid direct exposure to the light from the lamp. The light is harmful to the eye.

## **Accessories**

Power cord (1 PCS)  
XLR Plug (1 PCS)  
XLR Socket (1 PCS)  
This manual (1 PCS)

## **Operation**

The apparatus is for indoor use only.

Installation, operation, and maintenance by unprofessional personnel is not permitted. Most damages are the result of unprofessional operation.

Check there is no damage caused by transportation for your first usage.

Before replacing lamp, please cut off the power supply and wait till the lamp is cooled completely. The lamp temperature may be over 200°C.

Open the cover, and seat the lamp properly. Do not touch the glass-bulb bare-handed.

Close the cover again. Never switch the lamp on when the cover is opened.

Install the apparatus in the adequate ventilative place. Check the fan works normally and the ventilation net does not block.

Make sure the yellow/green power cord grounds correctly.

The using fuse is 4A/250V. Please use the fuse with the same rating and type.

When the power switch on, the apparatus automatically starts to run the programmes of self test. After finishing the self test, the apparatus is ready for operation.

Never shake the apparatus during operation.

## **Stand-Alone Mode**

A DIP switch of the mirage PR-2014H is comprised of 10 switches.

Do not connect the controller and the control cable. Set all 10 switches of the DIP switch on the "OFF". And the apparatus will run in the Stand-Alone mode. In the Stand-Alone mode, the apparatus may be actived by sound via the MIC inside the luminaire. The apparatus will change the colors according to the rhythm of music.

Rotate the AUDIO switch to adjust the deviation for receiving the audio signal.

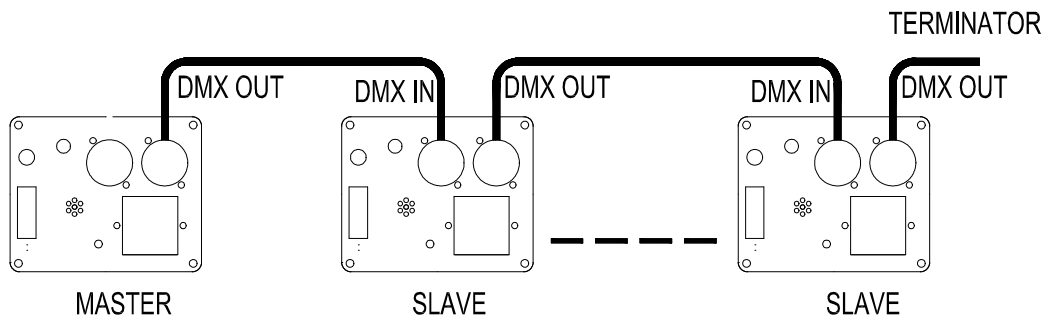
## **Master/Slave Mode**

Without using the controller, many luminaires can run synchronously by linking them with each other in the Master/Slave mode.

Select one luminaire as the master, and set the No 10 switch of the DIP switch on the "ON", and the rest switches on the "OFF".

Regard the other luminaires as the slaves, and set all No 1 switches of the DIP switches on the "ON", the rest all switches of the DIP switches on the "OFF".

Connect the master luminaire's output to the first slave luminaire's input with the XLR-XLR control cable, and connect the first slave luminaire's output to the second slave luminaire's input with the XLR-XLR control cable. The rest may be deduced by analogy. Eventually connect the last slave luminaire's output to a DMX terminator. (Please see the following figure)

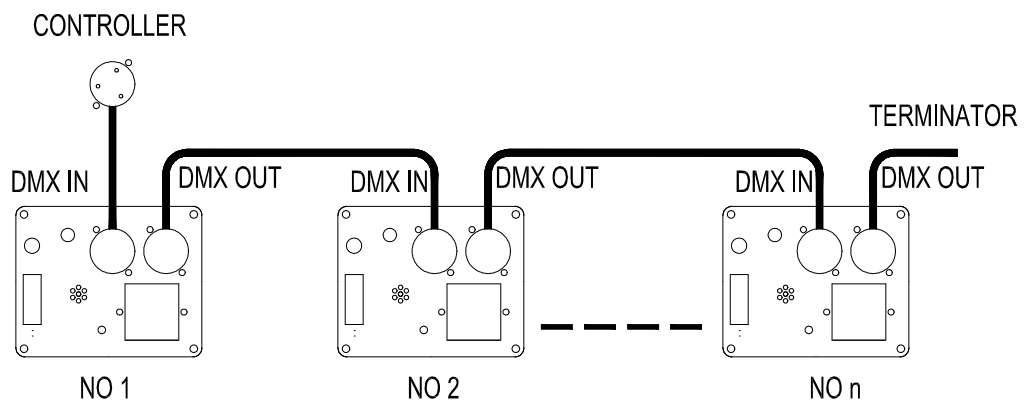


In the Master/Slave mode, all the luminaires may be activated by sound via the MIC inside the master. All luminaires will change synchronously colours according to rhythm of music.

**Caution:** You can only set one luminaire as the master, and the setting must be right. Otherwise injury or damage may result.

**Notice:** At the last slave luminaire in the chain, the DMX output has to be connected with a DMX terminator. The DMX terminator is simply an XLR connector with a 120 Ω resistor connected across pins 2 and 3, which can avoid the reflection during the DMX-512 signal transmission. (Please refer to appendix 3: terminator connection)

## Controller Mode



Mirage PR-2014H adopts DMX 512 protocol. You may use controller to control many luminaires via setting the No1 to No9 switches of the DIP switches. (For detail please refer to appendix 1)

Connect the controller's output to the first luminaire's input, and connect the first luminaire's output to the second luminaire's input. The rest may be deduced by analogy. Eventually connect the last luminaire's output to a DMX terminator. (Please see the figure above)

**Notice:** At the last luminaire in the chain, the DMX output has to be connected with a DMX terminator. The DMX terminator is simply an XLR connector with an 120 Ω resistor connected across pins 2 and 3, which can

avoid the reflection during the DMX-512 signal transmission. (Please refer to appendix 3: terminator connection)

mirage PR-2014H adopts 3-pin XLR plug/socket. If you use 5-pin XLR plug/socket, you should use a convertible cable as shown in appendix 2.

In order to fully use mirage PR-2014H, we suggest you select our controller which is designed specially for MANTIS series luminaires.

## **Channels**

mirage PR-2014H has 3 channels and uses DMX 512 protocol. (Please see the following table)

<b>CHANNEL</b>	<b>DESCRIPTION</b>
1	Gobo
2	Colour
3	Lamp ON/OFF

## **Maintenance**


Position the apparatus in a dry place. Avoid places where there is high humidity.

Interval use may prolong the life of the apparatus.

To obtain adequate ventilation and optimal lighting output, the fan, ventilation net and lens must be cleaned regularly.

Please do not use any organic solvent, e.g. alcohol, to clean the housing of the apparatus.

## **Important Statement**

 The apparatus is tested and packed properly by the manufacturer. Please make sure the packing and / or the apparatus in good conditions before installation and use. Any loss caused by improper use will not be assumed by the manufacturer and / or dealers.

This manual is subject to change without notification.

Appendix 1 :

**Table for setting address of DIP switch (for the controller mode)**

The following table lists the setting codes of the address of the DIP switches, and the luminaires are from No1 to No171. Each DIP switch has 10 switches with the number of #1, #2, #3, #4, #5, #6, #7, #8, #9 and #10. **(For the Mirage PR-2014H, set all #10 switches on the “OFF”.)**

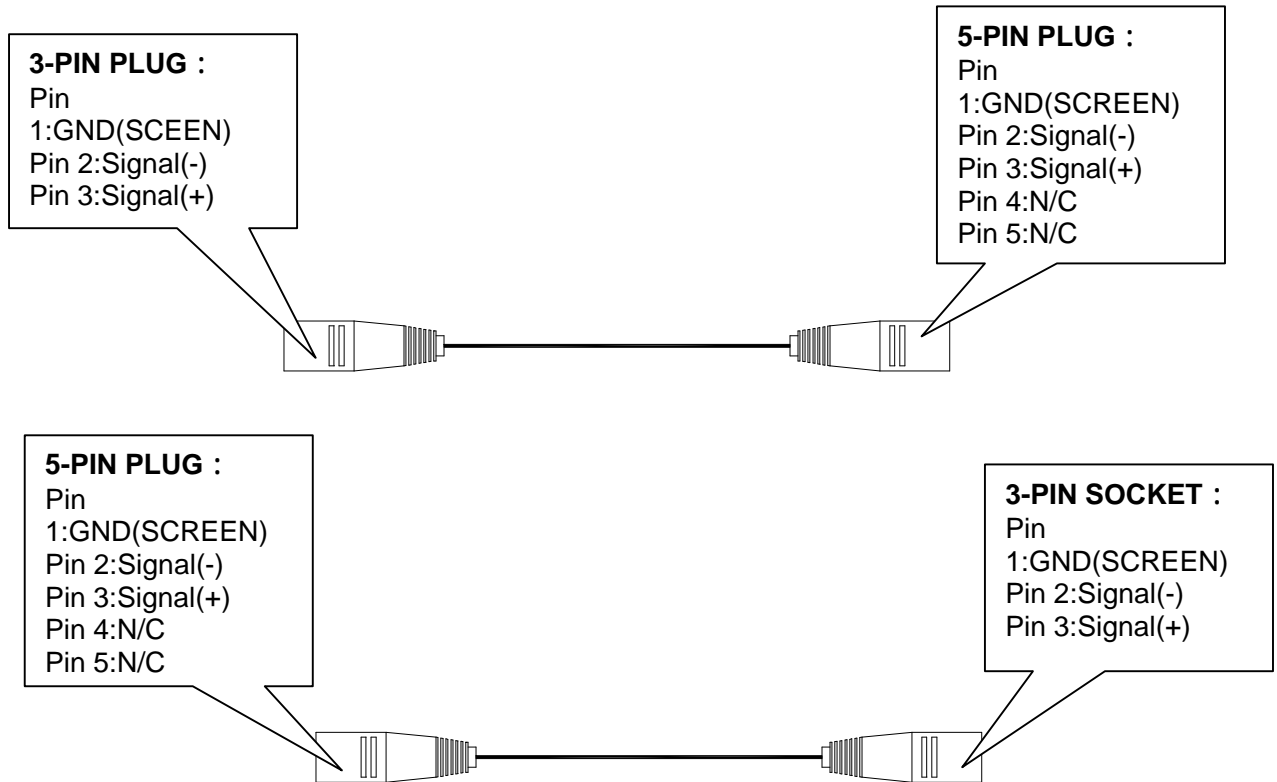
In the table, “0” means the switch is on the “OFF”, and “1” on the “ON”.

For example, if you want to look up the address setting of the No 50 luminaire, you will find the NO 50 luminaire row (#1, #2, #3, #4, #5) with the codes of “0”, “0”, “1”, “0”, “1” and column (#6, #7, #8, #9) with the codes of “0”, “0”, “1”, “0”. So set the #3, #5 and #8 switches on the “ON”, and set the #1, #2, #4, #6, #7, #9 and #10 switches on the “OFF”.

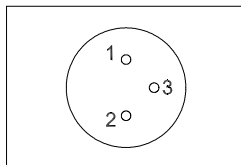
Setting Table of Address Switches					#9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
					#8	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	1
0=OFF 1=ON					#7	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	1
					#6	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0
#1	#2	#3	#4	#5																		
0	0	0	0	0				22			54			86			118			150		
1	0	0	0	0		1			33			65			97			129			161	
0	1	0	0	0			12			44			76			108				140		
1	1	0	0	0				23			55			87			119				151	
0	0	1	0	0		2			34			66			98			130			162	
1	0	1	0	0			13			45			77			109				141		
0	1	1	0	0				24			56			88			120				152	
1	1	1	0	0		3			35			67			99			131			163	
0	0	0	1	0			14			46			78			110				142		
1	0	0	1	0				25			57			89			121				153	
0	1	0	1	0		4			36			68			100			132			164	
1	1	0	1	0			15			47			79			111				143		
0	0	1	1	0				26			58			90			122				154	
1	0	1	1	0		5			37			69			101			133			165	
0	1	1	1	0			16			48			80			112				144		
1	1	1	1	0				27			59			91			123				155	
0	0	0	0	1		6			38			70			102			134			166	
1	0	0	0	1			17			49			81			113				145		
0	1	0	0	1				28			60			92			124				156	
1	1	0	0	1		7			39			71			103			135			167	
0	0	1	0	1			18			50			82			114				146		
1	0	1	0	1				29			61			93			125				157	
0	1	1	0	1		8			40			72			104			136			168	
1	1	1	0	1			19			51			83			115				147		
0	0	0	1	1				30			62			94			126				158	
1	0	0	1	1		9			41			73			105			137			169	
0	1	0	1	1			20			52			84			116				148		
1	1	0	1	1				31			63			95			127				159	
0	0	1	1	1		10			42			74			106			138			170	
1	0	1	1	1			21			53			85			117				149		
0	1	1	1	1				32			64			96			128				160	
1	1	1	1	1		11			43			75			107			139			171	

## Appendix 2

### CONVERSION BETWEEN 3-PIN AND 5-PIN XLR SOCKETS



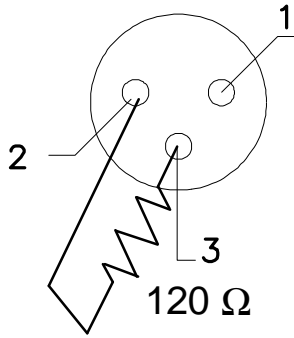
### Canon 3-PIN DMX512 CONNECTION



**Pin1=Screen  
Pin2=Signal -  
Pin3=Signal +**

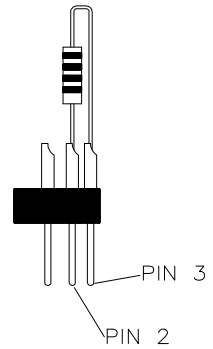
Appendix 3

**TERMINATOR CONNECTION**



**DMX TERMINATOR CONNECTION**

Connect a 120Ω(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.



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