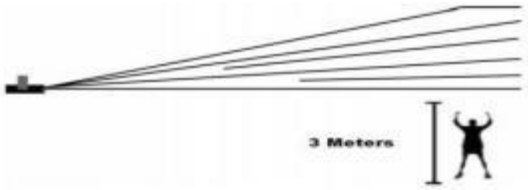
Party Disco Light

usersManual

This manual contains important laser system safety and operation information. Read and understand all instructions prior to powering on laser unit the first time, to avoid laser eye injury and to avoid breaking the law. Keep this manual in a safe place for future reference.

Installation



AVOID EYE
DIRECT CONTACT!

*Laser effects projected 3 meters (9.8 ft) above the audience are eye safe. A survey should be taken to assess the likelihood of any reflective surfaces (such as high windows, chrome bars etc) bouncing stray beams back down into the audience.
*Using a fastening clamps on the light and tight to the ceiling in a strong hook..
*Make sure its correct power output and plug the power cable to the wall socket.
* Power must be in earth! Power on the light.
* Do not shoot the beams to the audience!
*Do not look direct into the laser aperture once the laser light is ON. Please pay attention to the Laser Danger Warning Label!

Cleaning

Fixture Cleaning: Due to fog residue, smoke, and dust cleaning the internal and external lenses should be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe down the out- side casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in. Cleaning frequency depends on the environment in which the fixture operates (I.e. smoke, fog residue, dust, dew). In heavy use we recommend cleaning on a monthly basis. Periodic cleaning will ensure longevity, and crisp beam output.

Caution

After setting up, and before public use, test laser to ensure proper function. Do not use if any defect is detected. Do not use if laser emits only one or two laser beams rather than dozens/ hundreds, as this could indicate damage to the diffraction grating optic.
Do not point lasers at people or animals. Never look into the laser aperture or laser beams.
Do not point lasers in areas in which people can potentially get exposed, such as uncontrolled balconies, etc.
Do not point lasers at highly reflective surfaces, such as windows, mirrors and shiny metal. Even laser reflections can be hazardous.
Never point a laser at aircraft, this is a federal offense.
Never point un-terminated laser beams into the sky.
Do not expose the output optic (aperture) to cleaning chemicals.
Do not use laser if the laser appears to be emitting only one or two beams.
Do not use the laser if the housing is damaged, the housing is open, or if the optics appear damaged in any way.
Never open the laser housing. The high laser power levels inside of the protective housing can start fires, burn skin and will cause instant eye injury.
Never leave this device running unattended.

General Instructions

Unpacking:

Thank you for purchasing this product. Please read user guide for safety and operations information before using the product. Keep this manual for future reference. This product can create perfect light programs and effects since it has passed a series of strictly tests before delivery. Please check the attachments listed on the page after opening the carton. Immediately upon receiving a fixture, carefully unpack the box. Check the box contents to ensure that all parts are present and that they are in good condition. If any part appears damaged from shipping, or if the box shows signs of mishandling, notify the shipper immediately. In addition, retain the box and all the packing material for inspection. In any event, save the carton and all packing material because, in case that you have to return the fixture to the factory, you will have to do so in its original box, with its original packing.

What is included: 1* Light, 1*Power Cable, 1*User Guide

Safety Notice: Please read the following notes carefully because they include important safety information about the installation, usage and maintenance of this product. It is important to read all these notes before starting to work with this product.

Lasers can be hazardous and have unique safety considerations. Permanent eye injury and blindness is possible if lasers are used incorrectly. Pay close attention to each safety REMARK and WARNING statement in the user manual. Read all instructions careful.

Laser Safety Warnings

Potential laser injury hazard exists with this product! Read these Instructions carefully, which include important information about installation, safe use and service!
Caution:

Avoid direct eye contact with laser light. Never intentionally expose your eyes or others to direct laser radiation.

- *This laser product can potentially cause instant eye injury or blindness if laser light directly strikes the eyes.
- *It is illegal and dangerous to shine this laser into audience areas, where the audience or other personnel could get direct laser beams or bright reflections into their eyes.
- *It is a US Federal offense to shine any laser at aircraft.

NON-INTERLOCKED HOUSING WARNING

*This unit contains high power laser devices internally. Do not open the laser housing, due to potential exposure to unsafe levels of laser radiation. The laser power levels accessible if the unit is opened can cause instant blindness, skin burns and fires.

During Assembly, operation, maintenance, please pay special attention to avoid possible exposure to laser and collateral radiation in excess of the accessible emission limits.

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Protective eye wear is typically required where direct viewing of a Class 3B laser beam may occur.

The projector must be installed in a location with adequate distance.

Laser Expected Lifespan

Laser gradually decline in brightness over time. HEAT is the dominant factor that leads to the acceleration of this decline. Packaged in clusters, Laser exhibit higher operating temperatures than in ideal or singular optimum conditions. For this reason when all color Laser are used at their fullest intensity, life of the Laser is significantly reduced. It is estimated that a viable lifespan of 5,000 to 10,000 hours will be achieved under normal operational conditions. If improving on this lifespan expectancy is of a higher priority, place care in providing for lower operational temperatures. This may include climatic-environmental and the reduction of overall projection intensity.

Attention!

The scan speed of any laser software control must be **less than** the scanner speed of your laser light, otherwise, the patterns possible have distortion, or else the scanner will be damaged by over-speed running software!

Technical Specification

◆Feature: Animation laser with high-speed optical scanner to create animated graphics,hundreds of beam show and graphics show patterns, and with the function of color change, AUTO, Sound activate, rotating, movement, rotation, zoom (+/-), drawing and speed etc.

◆Scanner High-speed optical scanner, big angle scanning

◆Play Mode Sound Active, AUTO-Beam, AUTO-Animation, DMX, Master/ Slave

◆DMX channel: 6CH/34CH

◆Digital display function

◆Power Supply Bi-Voltage AC 100~240V/2A, 50/60HZ

◆Applicable place: logo projector, company advertising, superstar fashion show, DJs, Bands, Bars, Pubs, Clubs, Roller skating rinks, KTV, Family Party, etc.

Fixture Rear Plate:

Digital display	DMX or Linking Jack	Power Jack
		

Digital display function:

"Menu" is Menu, "Enter" is confirm, "Previous" is UP, "Next" is down.

1. Displaying mode setting: press MUN to switch the modes: preset effects, professional DMX512, simple DMX512.

1-1: preset effects: press ENTER to switch AUTO and Sound mode

1-1-1: Preset AUTO mode: SE+digits, (the fourth Decimal point OFF, digit is the displaying serial number)

1-1-2: preset Sound mode: SE+digits, (the fourth Decimal point ON, digit is the displaying serial number)

1-1-3: press UP/DOWN to change the serial number.

1-2: Professional DMX512 mode: A+digit (digit means the DMX value)

1-2-1: If there is DMX signal, the fourth Decimal point ON; if there is no DMX signal, the fourth Decimal point OFF.

2: laser light setup mode: press MUN to enter the laser light setup mode.

2-1: Optional modes: X-invert, Y-invert, XY co-invert, X-invert position, Y-invert position, Remote control OFF.

2-2: X-Invert

2-2-1: X-invert display: x.INV

2-2-2: Under X-invert mode, press ENTER to change the direction.

2-2-3: Forward direction: the fourth Decimal point OFF; backward: the fourth Decimal point ON

2-3: Y-invert

2-3-1: Y-invert display: y.INV

2-3-2: Under Y-invert mode, press ENTER to change the direction

2-3-3: Forward direction: the fourth Decimal point OFF; backward: the fourth Decimal point ON

2-4: XY co-invert

2-4-1: XY co-invert display: \.INV

2-4-2: Under this mode, press ENTER to change the direction

2-4-3: Forward direction: the fourth Decimal point OFF; backward: the fourth Decimal point ON

2-5: Remote control OFF

2-5-1: Remote control OFF display: rOFF

2-5-2: Under this mode, press ENTER to ON/OFF the remote control function.

2-5-3: ON: the fourth Decimal point OFF; OFF: the fourth Decimal point ON

Master/Slave mode:

In the digital display, set the "Slave" unit into "E.001".

DMX Control

The system only accepts the DMX512 signal of international standard to control the system.

DMX Control Parameter Chart

Simple DMX mode:

Channel	Function	Value	Description
CH1	Laser ON/OFF	0	OFF
		1--255	ON
CH2	Movement AUTO/SOUND control	0--31	Preset effects AUTO mode
		32--63	Preset Serial AUTO mode
		64--95	Preset mixed AUTO mode
		96--127	Saving the effects
		128--	Preset effects SOUND mode
		159160--	Preset Serial SOUND mode
		191192--	Preset mixed SOUND mode
		223224--	Saving the effects
CH3	Patterns selection (1.Group number over the max, then the program is default with the max group. 2. When CH2 is under preset mixed mode, this Channel is invalid.)	225	Group 1 patterns
		0--15	Group 2 patterns
		16--31	
		.....	Group 15 patterns
		192--223	Group 0 patterns
		224--255	
CH4	Theme selection	0--255	Each value is for one pattern. (1.Group number over the max, then the program is default with the max group. 2. When CH2 is under preset mixed mode, this Channel is invalid.)
CH5	Color selection	0--31	Full color
		32--	red
		6364--	yellow
		96-9-5127	green
		128--	cyan
		159160--	blue
		191192--	pink
		223224--	white
CH6	Speed adjustment	255	No movement
		1--255	Slow to fast

Channel	Function	Value	Description
CH1	Laser ON/OFF	0	Laser OFF
		1-99	AUTO
		100-199	Sound active
		200-254	Saving
		255	Pattern A, OFF
CH2	Out of bounds and Pattern size	0-49	Out of bounds Crossing
		50-99	Out of bounds Reentry
		100-149	Out of bounds Blanking
		150-199	Pattern zoom out, Out of bounds Blanking
		200-255	Saving
CH3	Group selections	0-223	Group 1
		244-255	Group 0
CH4	Pattern selections	0-255	Each value for one pattern; If over the pattern numbers, then program displaying the max number
CH5	Pattern Zoom IN/OUT	0-127	Static pattern size
		128-159	Dynamic Zoom OUT. the bigger value, the faster speed
		160-191	Dynamic Zoom IN. the bigger value, the faster speed
		192-223	Dynamic Zoom IN/OUT. the bigger value, the faster speed
		224-255	Dynamic Zoom Rotation. the bigger value, the faster speed
CH6	Pattern rotation	0-127	Static rotation
		128-159	Dynamic rotation 2 circles clockwise and counter clockwise. the bigger value, the faster speed
		160-191	Dynamic rotation 1 circle clockwise and counter clockwise. the bigger value, the faster speed
		192-223	Dynamic rotation clockwise. the bigger value, the faster speed
		224-255	Dynamic rotation counter clockwise. the bigger value, the faster speed
CH7	X Moving	0-127	Static X moving
		128-159	Dynamic UP moving wave effect. the bigger value, the faster speed
		160-191	Dynamic DOWN moving wave effect. the bigger value, the faster speed
		192-223	Dynamic LEFT moving. the bigger value, the faster speed
		224-255	Dynamic RIGHT moving. the bigger value, the faster speed
CH8	Y Moving	0-127	Static Y moving
		128-159	Dynamic RIGHT moving wave effect. the bigger value, the faster speed
		160-191	Dynamic LEFT moving wave effect. the bigger value, the faster speed
		192-223	Dynamic DOWN moving. the bigger value, the faster speed
		224-255	Dynamic UP moving. the bigger value, the faster speed
CH9	X Zoom IN/OUT	0-127	Static size
		128-159	Dynamic UP moving distortion. the bigger value, the faster speed
		160-191	Dynamic DOWN moving distortion. the bigger value, the faster speed
		192-223	Dynamic Zoom IN/OUT
		224-255	Dynamic Rotation Zoom IN/OUT. the bigger value, the faster speed
CH10	Y Zoom IN/OUT	0-127	Static size
		128-159	Dynamic RIGHT moving distortion. the bigger value, the faster speed
		160-191	Dynamic LEFT moving distortion. the bigger value, the faster speed
		192-223	Dynamic Zoom IN/OUT
		224-255	Dynamic Rotation Zoom IN/OUT. the bigger value, the faster speed

Channel	Function	Value	Description
CH19	Out of bounds and pattern size	50-99	Out of bounds Reentry
		100-149	Out of bounds Blanking
		150-255	Saving
		0-49	Out of bounds Crossing
CH20	No function	blank	
CH21	Pattern selections	0-255	Each value for one pattern; If over the pattern numbers, then program displaying the max number
CH22	Pattern Zoom IN/OUT	0-127	Static pattern size
		128-159	Dynamic Zoom OUT. the bigger value, the faster speed
		160-191	Dynamic Zoom IN. the bigger value, the faster speed
		192-223	Dynamic Zoom IN/OUT. the bigger value, the faster speed
		224-255	Dynamic Zoom Rotation. the bigger value, the faster speed
CH23	Pattern rotation	0-127	Static rotation
		128-159	Dynamic rotation 2 circles clockwise and counter clockwise. the bigger value, the faster speed
		160-191	Dynamic rotation 1 circle clockwise and counter clockwise. the bigger value, the faster speed
		192-223	Dynamic rotation clockwise. the bigger value, the faster speed
		224-255	Dynamic rotation counter clockwise. the bigger value, the faster speed
CH24	X Moving	0-127	Static X moving
		128-159	Dynamic UP moving wave effect. the bigger value, the faster speed
		160-191	Dynamic DOWN moving wave effect. the bigger value, the faster speed
		192-223	Dynamic LEFT moving. the bigger value, the faster speed
		224-255	Dynamic RIGHT moving. the bigger value, the faster speed
CH25	Y Moving	0-127	Static Y moving
		128-159	Dynamic RIGHT moving wave effect. the bigger value, the faster speed
		160-191	Dynamic LEFT moving wave effect. the bigger value, the faster speed
		192-223	Dynamic DOWN moving. the bigger value, the faster speed
		224-255	Dynamic UP moving. the bigger value, the faster speed
CH26	X Zoom IN/OUT	0-127	Static size
		128-159	Dynamic UP moving distortion. the bigger value, the faster speed
		160-191	Dynamic DOWN moving distortion. the bigger value, the faster speed
		192-223	Dynamic Zoom IN/OUT
		224-255	Dynamic Rotation Zoom IN/OUT. the bigger value, the faster speed
CH27	Y Zoom IN/OUT	0-127	Static size
		128-159	Dynamic RIGHT moving distortion. the bigger value, the faster speed
		160-191	Dynamic LEFT moving distortion. the bigger value, the faster speed
		192-223	Dynamic Zoom IN/OUT
		224-255	Dynamic Rotation Zoom IN/OUT. the bigger value, the faster speed
CH28	Fixed Color setting	0	Original color
		1-255	Color change with each n dot
CH29	Pattern color change	0-7	Original color
		8-15	red
		16-23	yellow
		24-31	green

Channel	Function	Value	Description
CH11	Fixed Color setting	0	Original color
		1-255	Color change with each n dot
CH12	Pattern color change	0-7	Original color
		8-15	red
		16-23	yellow
		24-31	green
		32-39	cyan
		40-47	blue
		48-55	pink
		65-63	white
		64-95	Whole pattern RGB. the bigger value, the faster speed
		96-127	Whole pattern YCP. the bigger value, the faster speed
		128-159	Whole pattern RGBYCPW. the bigger value, the faster speed
		160-191	7 Color RGBYCPW. the bigger value, the faster speed
		192-223	Sine Chasing color change
		224-255	Cosine Chasing color change
CH13	Dots	0-63	Original Dots
		64-127	Pattern no Dots effect, sweep line blanking
		128-159	Pattern no Dots effect, Sweep line no blanking
		160-255	Saving
CH14	Drawing and other functions(working with Channel 15)	0-255	On CH15 value 0-127， pattern moving drawing all ON to keep the time
		0-255	On CH15 value 128-255, walking drawing line quantity
CH15	Drawing (CH15 and CH14 together)	0-63	Sine manual drawing
		64-127	Cosine manual drawing
		128-159	Dynamic drawing A Effects. the bigger value, the faster speed
		160-191	Dynamic drawing B Effects. the bigger value, the faster speed
		192-223	Dynamic drawing C Effects. the bigger value, the faster speed
		224-255	Dynamic drawing D Effects. the bigger value, the faster speed
CH16	Twist pattern change	0-255	The more value, the less twisting (notes: when zoom in, rotation, moving, rolling twisting effects, CH16 can control the effect)
CH17	Grating selection (notes: in some sections, morevalue the n less gobo angle)	0-19 20-39 40-59 3….. 240-255	Grating group 1...1. The bigger digit, the smaller pattern.
		13	
CH18	ON/OFF Laser	0	All OFF
		1-99	AUTO
		100-199	SOUND
		200-254	Saving
		255	Group A OFF, Group B ON
CH19	Out of bounds and pattern size	0-49	Out of bounds Crossing. The bigger digit, the smaller pattern.

Channel	Function	Value	Description
CH29	Pattern color change	32-39	cyan
		40-47	blue
		48-55	pink
		65-63	white
		64-95	Whole pattern RGB. the bigger value, the faster speed
		96-127	Whole pattern YCP. the bigger value, the faster speed
		128-159	Whole pattern RGBYCPW. the bigger value, the faster speed
		160-191	7 Color RGBYCPW. the bigger value, the faster speed
		192-223	Sine Chasing color change
		224-255	Cosine Chasing color change
CH30	Dots	0-63	Original Dots
		64-127	Pattern no Dots effect, sweep line blanking
		128-159	Pattern no Dots effect, Sweep line no blanking
		160-255	Saving
CH31	Drawing and other functions(working with Channel 15)	0-255	On CH15 value 0-127，pattern moving drawing all ON to keep the time
		0-255	On CH15 value 128-255, walking drawing line quantity
CH32	Drawing (CH15 and CH14 together)	0-63	Sine manual drawing
		64-127	Cosine manual drawing
		128-159	Dynamic drawing A Effects. the bigger value, the faster speed
		160-191	Dynamic drawing B Effects. the bigger value, the faster speed
		192-223	Dynamic drawing C Effects. the bigger value, the faster speed
		224-255	Dynamic drawing D Effects. the bigger value, the faster speed
CH33	Twist pattern change	0-255	The more value, the less twisting (notes: when zoom in, rotation, moving, rolling twisting effects, CH16 can control the effect)
CH34	Grating selection (notes: in some sections, morevalue the n less gobo angle)	0-19 20-39 40-59 3…..240-255 13	Grating group 1...1. The bigger digit, the smaller pattern.

Warranty Warnings:

1. Damages caused by the disregard of this user manual are not subject to Warranty.
The dealer will not accept liability for any resulting defects or problems.

2. Please consider that unauthorized modifications on the device are forbidden due to safety reasons. Please note that damages caused by manual modifications on the device or unauthorized operation by unqualified persons are not subject to warranty.

3. If this device will be operated in any way different to the one described in this manual, it may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short-circuit, burns electric shock, etc.

For any questions about this light, please contact your dealer or our company for service.