

VIKING
STAGE LIGHTING



Viking VK02 Nebula Laser



USER MANUAL

Notice:

1. Avoid direct eye exposure to the Laser Beam. Never intentionally expose your eye or others to direct laser beam. It can potentially cause instant eye injury or blindness if laser beam strikes directly to eyes.
2. Don't point onto any oncoming pedestrians, vehicles or traffic routes from land, sea or air.
3. Don't project at or within the flight path of aircraft. If your intended surface is within 10 nautical miles of an airport, lower the angle of light so that no lasers point into the sky.
4. Don't turn the unit on and off frequently.
5. Use a cleaning tissue to remove the dust absorbed on the external lenses periodically to optimise light output.
6. There are no user serviceable parts inside the unit. It must not be opened under any circumstances.



Features:

1. 2W high brightness 7 colour aurora effect of laser light. High brightness dreamlike aurora sky starfield effect makes the environment more attractive and romantic. It can be set in single colour or multicolour automatic display mode which can also be controlled by DMX.
2. IP65 waterproof housing which is fit for outdoor permanent installation.
3. Applicable for stage effect, outdoor bright projects, scenic areas, theme park, party or theatre use where an aurora can be projected onto the ceiling or ground. The effect is also enhanced by the use of haze or smoke in the atmosphere.

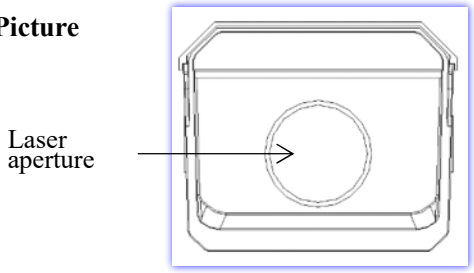
Technical Specification

1. Voltage: AC100V-250V, 50HZ/60HZ auto sensing
2. Rated Power: 20w
3. Laser:
 - Red laser, 700mw, wavelength 638nm
 - Green laser, 800mw, wavelength 520nm
 - Blue laser, 1500mw, wavelength 450nm
4. Laser lifespan >10000 hours
5. Waterproof Level: IP65
6. Mains Connector: Truecon
7. Work Environment: outdoor and indoor, -35 ° C ~40 ° C
8. Scanner: Precise step motor with 60 degree projection angle
9. Working Modes: DMX, Manual, White Auto Mode, RGB Auto Mode, Master/Slave Mode

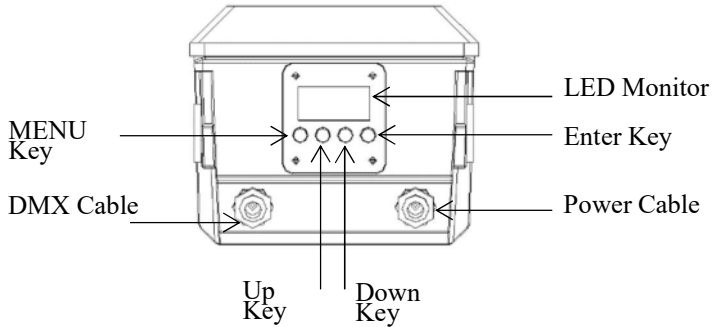
Technical Specification continued:

- 10. DMX Control Channel: 7 channels on 3 pin IP65 Data lead to XLR - please ensure you have requested this when booking as it cannot be used on DMX without the adaptor cable
- 11. Size: 129(L)*252(W)*106(H)mm
- 12. Weight: 2.4Kg

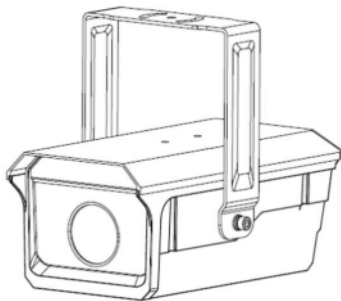
Front Panel Picture



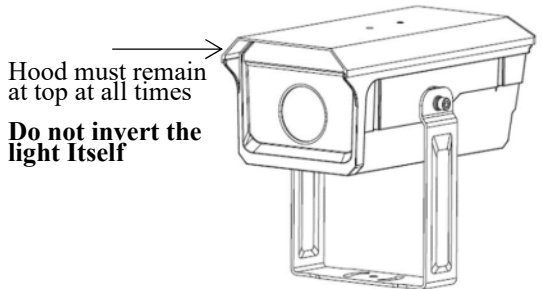
Rear Panel Picture



Lighting Installation Method:



Handle Hanging Installation



Handle Support Installation

Function & Setting

Auto

Auto cycles the built-in programs without being controlled externally.

DMX Control

The system accepts DMX512 signals from a lighting desk to control the following parameters: the laser beam, ON /OFF, running direction, running speed and twinkle speed etc.

DMX Control Parameter Chart

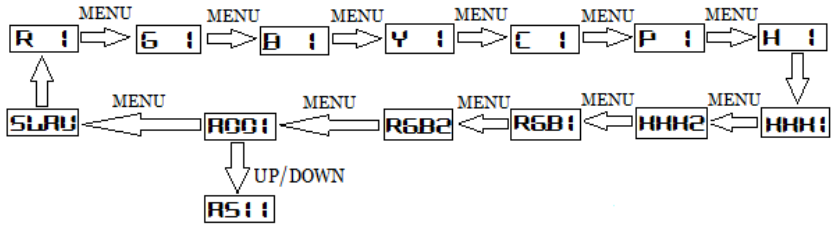
During DMX mode, use the Up/Down key to change the DMX address, and Enter key to save the parameter. The address will be shown on monitor as value from A001 to A511

One unit has 7 channels, so each unit must be assigned in a 7 channel block at least.

DMX Control Parameter Chart

Channel	Function	DMX Value	Description
CH1	Mode Select	000--049	Laser OFF
		050--099	White laser fast auto mode with strobe effect
		100--149	White laser slow auto mode no strobe effect
		150--199	RGB laser fast auto mode with strobe effect
		200--249	RGB laser slow auto mode no strobe effect
		250--255	DMX Manual Mode, CH2~CH7 valid
CH2	Red Laser Dimmer	000--255	Dimmer laser output power from 0% to 100%
CH3	Green Laser Dimmer	000--255	Dimmer laser output power from 0% to 100%
CH4	Blue Laser Dimmer	000--255	Dimmer laser output power from 0% to 100%
CH5	Strobe	000--004	No strobe
		005--255	Strobe from fast to slow
CH6	Rolling Speed	000--255	Speed from fast to slow, 255 is stop
CH7	Rolling Direction	000-099	Clockwise running
		100--199	Stop running
		200--255	Counter clockwise running

Menu Operation Instruction



LED Display		Description
R 1	R 1	Red laser manual mode, the number shows the current rotation speed
G 1	G 1	Green laser manual mode, the number shows the current rotation speed
B 1	B 1	Blue laser manual mode, the number shows the current rotation speed
Y 1	Y 1	Yellow laser manual mode, the number shows the current rotation speed
C 1	C 1	Cyan laser manual mode, the number shows the current rotation speed
P 1	P 1	Purple laser manual mode, the number shows the current rotation speed
H 1	H 1	White laser manual mode, the number shows the current rotation speed
HHH1	HHH1	White laser fast auto mode with strobe effect
HHH2	HHH2	White laser slow auto mode no strobe effect
RGB1	RGB1	RGB laser fast auto mode with strobe effect
RGB2	RGB2	RGB laser slow auto mode no strobe effect
A001	A001	DMX mode, DXM address range from 1 to 511
SLAV	SLAV	Slave mode

After every resetting and save, the new mode information (mode/ DMX address, speed etc.) will be save into the CPU and also will be shown on the LED monitor. Mode/MENU key, to choose the operating mode of laser.

The Up and Down keys are used to change the parameter or DMX address confirmation, to confirm press ENTER key to store the present mode for the next operation.

DMX Operation (DMX mode)

The mode allows a single unit to react to the beat of the music in the master mode.

1. Install the units in a suitable position.
2. Use standard XLR microphone cable chain your units together via the XLR connector on the rear of the units.
For longer cable runs we suggest a terminator at the last fixture.
3. Turn on the unit power, the unit begins reset, then the unit begins working.
4. Set Function to DMX mode DMX address of the unit.
5. Use DMX console to control your units.

Notes:

1. DMX console can't be used in Master-Slave operation (manual mode or auto mode).
2. There should be only one master unit in Master-Slave operation.

Master/Slave Operation

This mode will allow you to link up to many units together without controller.

1. Install the units in a suitable position.
2. Use standard XLR microphone cable chain your units together via the XLR connector on the rear of the units.
For longer cable runs we suggest a terminator at the last fixture.
3. Turn on the all the power to the units, the units begins reset, then the unit begins working.
4. Choose a unit to function as Master mode, set manual mode or auto mode. The others must be set to Slave mode.
The slave units will react the same as the master unit.