330W CMY LED Moving Head Spot Light

VG-SBW330CMY



се _{RoHS} User Manual

Please read this user manual before using this product!

Keep it for further reference!

http://www.vangaa.com

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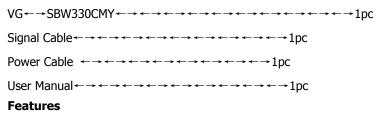
I GENERAL

Thank you for using our product! Please read this manual carefully and completely. For technical reference in future, please keep this user manual well. This user manual contains all installation and operation information of this CMY LED Moving Head Spot Beam Wash Light, it's very useful for user to install and operate the light. Please strictly abide by the relevant instruction for the installation and operation.

This 330W CMY LED Spot Moving Head Light is made of a new type of high temperature strength of engineering ABS with nice outlook. The fixture is designed manufactured strictly following CE standards, complying with international standard DMX512 protocol. It's available independently controlled and linkable with each other for operation. And it is applicable for large \rightarrow scale live performances, theater, studio, nightclubs and discos.

This light meets the following criteria: $GB7000.1 \leftarrow \rightarrow 2007/IEC60598 \leftarrow \rightarrow 1:2003$ $GB7000.217 \leftarrow \rightarrow 2008/IEC60598 \leftarrow \rightarrow 2 \leftarrow \rightarrow 17:1984 + A2:1990$

Once receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are presented, and have been received in a good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows, sign of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.



VG-SBW330CMY	330W	CMY	LED	Moving	Head	Spot	Light	User	Manual

Multi-Colors+goboes
Color strobe
Electronic Dimming 0-100%
DMX-512 protocol
Master/Slave synchronization
LCD operation menu with function buttons
Daisy Chain Units Together in DMX Mode

II SAFETY INFORMATION

%Important

Every person involved with the installation, operation and maintenance of this device has to be qualified and follow the instructions of this manual. Manufacturer will not with responsibility for those operations which are not according to this Instruction.

Verify that the voltage matches the rated voltage.

When the voltage is 110V , Do not connect more than 10 lightings in total to AC mains power in one interconnected daisy chain

When the voltage is 220V , Do not connect more than 20 lightings in total to AC mains power in one interconnected daisy chain

Before using the fixture, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.

Always ground (earth) the fixture electrically.

Avoiding hit the Light when you are move or install the light.

The minimum distance between light $\leftarrow \rightarrow$ output and the illuminated surface must be more than 0.5 meters. Keep all combustible materials (for example fabric, wood, paper) at least 0.2 meters away from the fixture.

Do not expose the fixture to rain or moisture.

Avoid looking directly into the light source (especially those who suffer from epileptic fits) Maximum ambient temperature (Ta) is 40°C. Do not operate fixture at temperatures higher than this.

The Maximum surface temperature is 50°C

When suspending the fixture above ground level, verify that the structure can hold at least

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10 times the weight of all installed devices.

Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary attachment such as a safety cable.

To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixtures specifications chart. A fixture listed current rating is its average current draw under normal conditions. All fixtures must be directly powered off a switched circuit and cannot be run off a rheostat(variable resistor) or dimmer circuit, even if the rheostat or dimmer source voltage matches the fixtures requirement. Check the fixture or device carefully to make sure that if a voltage selection switch exists that it sets to the correct line voltage you will use.

Warning! Verify that the voltage select switch on your unit matches the line voltage applied. Damage to your fixture may result if the line voltage applied does not match the voltage indicated on the voltage selector switch. All fixtures must be connected to circuits with a suitable Earth ground.

III OPERATION INSTRUCTIONS

- The moving head is an LED wash light for onsite decoration purpose.
- Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.
- This light should be keep away from strong shaking during any transportation or movement.
- Don't pull up the light by only the head, or it might cause damages to the mechanical parts.
- Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And don't lay any power cables on the floor. Or it might cause

VG-SBW330CMY 330W CMY LED Moving Head Spot Light User Manual	VG-SBW330CMY
electronic shock to the people.	8←→facet prism
Make sure the installation place is in good safety condition before installing the	3.5←→35deg elec
fixture.	Focus+Frost +Iris
	Beam+Spot+Wash
• Make sure to put the safety chain and check whether the screws are screwed properly	Motorized:
when installing the fixture.	Pan/Tilt
• Make sure the lens are in good condition. It's recommended to replace the units if	Pan movement ran
there are any damages or severe scratch.	Tilt movement ran
• Make sure the fixture is operated by qualified personnel who knows the fixture before	16 bit movement r
using.	Automatic Pan/Tilt
Keep the original packages if any second shipment is needed.	Pan movement 0° ←→540°at max
Don't try to change the fixtures without any instruction by the manufacturer or the	Tilt movement 0°
appointed repairing agencies.	←→270°at max
It is not in warranty range if there are any malfunctions from not following the user	LCD operation:
manual to operate or any illegal operation, like shock short circuit, electronic shock,	Built←→in demo
lamp broke, etc.	Silent fans cooling
	Strong two←→pha
	Stand ← → alone op
V TECHNICAL SPECIFICATION	Supported protoco
Electrical:	2 DMX modes (21/
ower supply:electronic auto $\leftarrow \rightarrow$ ranging	Connection:
nput voltage range:supply 90 ← → 250V, 50/60Hz fuse:	DMX data in/out: I
-	AC power input: 1.
ower consumption:450W@230V	Rigging :
Optic : ight source: LED Apportronics 1piece *330W White LED	Mounting points: 2
ED lifespan: 6,0000 hours	Mounting horizonta
Dimmer: Smooth dimmer from $0 \leftarrow \rightarrow 100\%$	Temperatures:
ixed gobo wheel: 9gobos+Open	Maximum ambient
totating gobo wheel:7gobos+Open	Maximum housing
color system: 9 different colors+CMY	Minimum distan
	Min. distance from

5←→35deg electronic zoom cus+Frost +Iris eam+Spot+Wash otorized: n/Tilt an movement range: 540° t movement range: 270° bit movement resolution Itomatic Pan/Tilt position correction an movement 0° →540°at max......Speed: 2.2 sec. t movement 0° →270°at max...... Speed: 1.2 sec. D operation: Built ← → in demo sequences ent fans cooling rong two $\leftarrow \rightarrow$ phase motors and $\leftarrow \rightarrow$ alone operation pported protocols: DMX512 DMX modes (21/26 control channels) onnection: 4X data in/out: Locking 3←→pin and 5←→pin XLR power input: 1.5m power cord with plug gging : counting points: 2 pairs of $1/4 \leftarrow \rightarrow$ turn locks ounting horizontally or vertically via 2 Omega brackets mperatures: aximum ambient temperature: 45°C aximum housing temperature: 75°C inimum distances: Min. distance from flammable surfaces: 3.0m

Min. distance to lighted object: 2.0m Total heat dissipation: 1200 BTU/h (calculated) Net dimension: 393(L) x 260(W) x 668(H) mm Weight (net): 24.50kg

V DIMENSION







Fixture dimension (mm)

VI INSTALLATION AND CONNECTION

1. Installation

Caution: Fixture may cause severe injuries when crashing down! If you have doubts concerning the safety of

a possible installation, do not install the moving head!

Before rigging make sure that the installation area can hold a minimum point load of 10 times the fixture's

weight.

When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in a

distance of min. 1.0 m.

CAUTION!

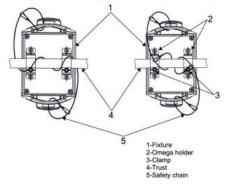
Use an appropriate clamp to ring the fixture on the truss.

Follow the instructions mentioned at the bottom of the base.

Make sure that the device is fixed properly! Ensure that the structure (truss) to which you are attaching the

fixtures is secure.

Securing the fixture via one safety wire Securing the fixture via two safety wires

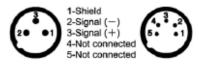


2. DMX connection

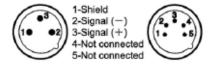
The fixture is equipped with $3 \leftarrow \rightarrow pin$ or $5 \leftarrow \rightarrow pin$ XLR sockets for DMX input and output. The sockets are wired in parallel.

Only use a shielded twisted $\leftarrow \rightarrow$ pair cable designed for RS $\leftarrow \rightarrow 485$ and $3 \leftarrow \rightarrow pin$ or $5 \leftarrow \rightarrow pin$ XLR $\leftarrow \rightarrow plugs$ and connectors in order to connect the controller with the fixture or one fixture with another.

DMX-output XLR mounting-sockets (rear view):



DMX-input XLR mounting-plugs (rear view):



DMX Linking: To ensure proper DMX data transmission, when using several DMX fixtures try to use the

shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the

DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX

line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1,

the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the

DMX chain.

VII OPERATION AND CONTROL

1. Control panel

Operating Modes: You can use the LED BSW330 CMY in 3 ways:

 \Box Auto Mode $\leftarrow \rightarrow$ The unit will automatically chase through the different colors and built $\leftarrow \rightarrow$ in programs.

□ Slave Mode – The unit will run under slave mode.

 \Box DMX control mode \leftarrow This function will allow you to control each individual fixtures

traits with a standard

DMX 512 controller.

DMX Mode: Operating through a DMX controller give the user the freedom to create their own programs

tailored to their own individual needs. This function also allows you to use your fixtures as spot lights.

 This function will allow you to control each individual fixture's traits with a standard DMX 512 controller.

2. The LED BSW330 CMY uses 21/26 DMX channels modes to operate. Please see "DMX Values and

Functions" for the DMX traits.

3. To run your fixture in DMX mode, plug in the fixture via the XLR connections to any standard DMX $% \left(\mathcal{M}_{\mathrm{T}}^{\mathrm{T}}\right) =0$

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controller. Set your desired DMX address following the setup specifications that come with your $\ensuremath{\mathsf{DMX}}$

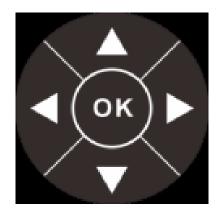
controller.

Touch Buttons: :

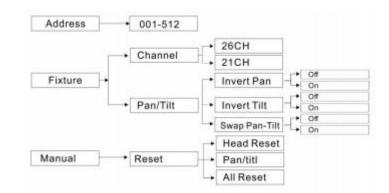
There are Five touch buttons nearby the LED display: Menu, Up, Down, Enter and Invert, the LED will display the current DMX address code of the fixture. At this time, presses up and down to choose the functions you want.

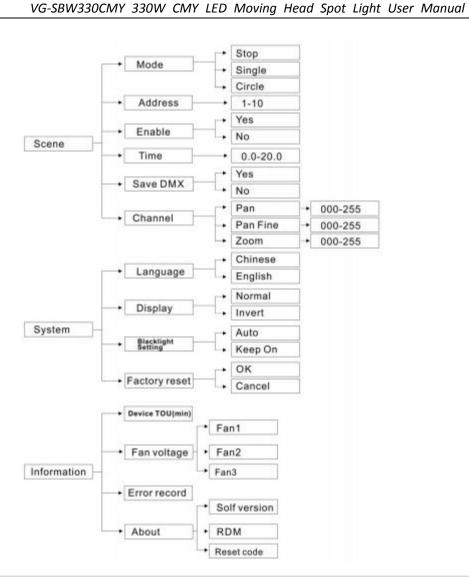
LCD Operation Menu: LCD screen with Five touch buttons: MENU, UP, DOWN

ENTER and INVERT



LCD display operation:





VII ADDRESS SETTING AND DMX CHANNEL OPERATION

<mark>26 DMX Сн</mark> /	ANNELS MODE [STA	NDARD MODE]
DMX CH	DMX Value	Function

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VG-SBW330CMY 330W CMY LED Moving Head Spot Light User Manual							
CH1	000←→255	Pan 0~100degree					
CH2	000←→255	Pan fine 0~100degree					
CH3	000←→255	Tilt 0~100degree					
CH4	000←→255	Tilt fine 0~100degree					
CH5	000←→255	Pan/Fine Speed Fast - > Slow					
CH6	000←→255	Dimmer, 0~100degree					
CH7	$252 \leftarrow \rightarrow 255$ $239 \leftarrow \rightarrow 251$ $226 \leftarrow \rightarrow 238$ $213 \leftarrow \rightarrow 225$ $208 \leftarrow \rightarrow 212$ $108 \leftarrow \rightarrow 207$ $104 \leftarrow \rightarrow 107$ $004 \leftarrow \rightarrow 103$ $000 \leftarrow \rightarrow 003$	Strobe/ShutterOpenRandom Strobe(Fast)Random Strobe(Medium)Random Strobe(Slow)OpenPulse:Slow $\leftarrow \rightarrow$ > FastOpenStrobe:Slow $\leftarrow \rightarrow$ > FastClose					
CH8	000←→255	Cyan, 0~100degree					
CH9	000←→255	Magenta, 0~100degree					
CH10	000←→255	Yellow, 0~100degree					
CH11	000←→255	Color1, 0~100degree					
CH12	000←→255	Color2, 0~100degree					
CH13	000←→255	Color3, 0~100degree					
CH14		Static Gobo					
	192←→255	Rotation(CCW): Slow $\leftarrow \rightarrow >$ Fast					
	128←→191	Rotation(CW): Fast←→> Slow					
	120←→127	Gobo9 Shake: Slow ←→> Fast					
	112←→119	Gobo8 Shake: Slow ←→> Fast					
	104←→111	Gobo7 Shake: Slow $\leftarrow \rightarrow >$ Fast					
	096←→103	Gobo6 Shake: Slow $\leftarrow \rightarrow >$ Fast					

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10 30 11 33 0 0 11 1	55000	Citri		i i i o i i i i g	ncuu	Spor	Ligin	0.507	n nanaan	

	024←→031	Gobo2
	016←→023	00002
	010←→025 008←→015	Gobo1
	000←→007	Open
		Gobo Rotation
	193←→255	Gobo Rotation(CCW): Slow $\leftarrow \rightarrow >$ Fast
CH16	191←→192	Stop
	128←→190	Gobo Rotation(CW): Fast $\leftarrow \rightarrow >$ Slow
	000←→127	Gobo Position
		Iris
	192←→255	Iris Pulse Closing: Slow ←→> Fast
CH17	128←→191	Iris Pulse Opening: Slow $\leftarrow \rightarrow$ > Fast
	000←→127	Iris Index
		Prism
CH18	000←→127	Open
	128←→255	Prism
		Prism Rotation
	193←→255	Prism Rotation(CCW): Slow ←→> Fast
CH19	191←→192	Prism Static
	128←→190	Prism Rotation(CW): Fast ←→> Slow
	000←→127	Gobo Position
		Frost
CH20	000←→255	Frost
		Focus
CH21	000←→255	0~100degree
01100		Focus Fine
CH22	000←→255	0~100degree
CHIDD		Zoom
CH23	000←→255	0~100degree

CH24		Zoom Fine
CH24	000←→255	0~100degree
		Auto Focus
	216←→255	Auto Focus 13m
	176←→215	Auto Focus 11m
CH25	136←→175	Auto Focus 8m
	096←→135	Auto Focus 5m
	056←→095	Auto Focus 3m
	000←→055	Auto Focus Disable
		System Control
	200←→255	All reset
CH26	150←→199	Head reset
	100←→149	Pan and tilt reset
	000←→99	Unused

21 DMX CHANNELS MODE [REDUCE MODE]

	DMX	Function				
DMX CH	Value					
CH1	000←→255	Pan 0~100degree				
CH2	000←→255	Tilt 0~100degree				
CH3	000←→255	Pan/Fine Speed Fast - > Slow				
CH4	000←→255	Dimmer, 0~100degree				
		Strobe/Shutter				
	252←→255	Open				
	239←→251	Random Strobe(Fast)				
CH5	226←→238	Random Strobe(Medium)				
СПЭ	213←→225	Random Strobe(Slow)				
	208←→212	Open				
	108←→207	Pulse:Slow $\leftarrow \rightarrow >$ Fast				
	104←→107	Open				

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10 301132		CIVIT LED MOVING TICUU Spot Eight
	004←→103	Strobe:Slow $\leftarrow \rightarrow >$ Fast
	000←→003	Close
CH6	000←→255	Cyan, 0~100degree
CH7	000←→255	Magenta, 0~100degree
CH8	000←→255	Yellow, 0~100degree
CH9	000←→255	Color1, 0~100degree
CH10	000←→255	Color2, 0~100degree
CH11	000←→255	Color3, 0~100degree
		Static Gobo
	192←→255	Rotation(CCW): Slow $\leftarrow \rightarrow >$ Fast
	128←→191	Rotation(CW): Fast $\leftarrow \rightarrow$ Slow
	120←→127	Gobo9 Shake: Slow $\leftarrow \rightarrow >$ Fast
	112←→119	Gobo8 Shake: Slow $\leftarrow \rightarrow >$ Fast
	104←→111	Gobo7 Shake: Slow $\leftarrow \rightarrow >$ Fast
	096←→103	Gobo6 Shake: Slow $\leftarrow \rightarrow >$ Fast
	088←→095	Gobo5 Shake: Slow $\leftarrow \rightarrow >$ Fast
	080←→087	
	072←→079	Gobo4 Shake: Slow $\leftarrow \rightarrow >$ Fast
CU12	064←→071	Gobo3 Shake: Slow $\leftarrow \rightarrow >$ Fast
CH12	056←→063	Gobo2 Shake: Slow $\leftarrow \rightarrow >$ Fast
	050←→055	Gobo1 Shake: Slow $\leftarrow \rightarrow >$ Fast
	045←→049	Open
	040←→044	Gobo9
	035←→039	Gobo8
	030←→034	Gobo7
	025←→029	Gobo6
	020←→024	Gobo5
	015←→019	Gobo4
	010←→014	Gobo3
	005←→009	Gobo2

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V(7-)KVV33()(.)VIY	331100		1 - 1 - 1 - 1	iviovino	пеаа	SHOL	1 101111	USPL	IVIAIIIIAI
10 00 11 00 00 01111		0		nee en eg	neaa	opor	Ligne	0.000	i i i a i i a a i

	000←→004	Gobo1
		Open
		Rotating Gobo
	188←→255	Rotation(CCW): Slow $\leftarrow \rightarrow >$ Fast
	120←→187	Rotation(CW): Fast $\leftarrow \rightarrow$ > Slow
	112←→119	Gobo7 Shake: Slow $\leftarrow \rightarrow >$ Fast
	104←→111	Gobo6 Shake: Slow $\leftarrow \rightarrow >$ Fast
	096←→103	Gobo5 Shake: Slow $\leftarrow \rightarrow >$ Fast
	088←→095	Gobo4 Shake: Slow $\leftarrow \rightarrow >$ Fast
	080←→087	Gobo3 Shake: Slow $\leftarrow \rightarrow >$ Fast
	072←→079	Gobo2 Shake: Slow $\leftarrow \rightarrow >$ Fast
CH13	064←→071	Gobo1 Shake: Slow $\leftarrow \rightarrow >$ Fast
	056←→063	Gobo7
	048←→055	Gobo6
	040←→047	Gobo5
	032←→039	Gobo4
	024←→031	Gobo3
	016←→023	Gobo2
	008←→015	
	000←→007	Gobo1
		Open
		Gobo Rotation
CH14	193←→255	Gobo Rotation(CCW): Slow $\leftarrow \rightarrow >$
		Fast
	191←→192	Stop
	128←→190	Gobo Rotation(CW): Fast $\leftarrow \rightarrow >$
		Slow
	000←→127	Gobo Position
CH15		Iris
	192←→255	Iris Pulse Closing: Slow $\leftarrow \rightarrow$ Fast

	128←→191	Iris Pulse Opening: Slow $\leftarrow \rightarrow$ Fast
	000←→127	Iris Index
		Prism
CH16	000←→127	Open
	128←→255	Prism
		Prism Rotation
	193←→255	Prism Rotation(CCW): Slow $\leftarrow \rightarrow >$
		Fast
CH17	191←→192	Prism Static
	128←→190	Prism Rotation(CW): Fast $\leftarrow \rightarrow >$
		Slow
	000←→127	Gobo Position
CH18		Frost
CIIIO	000←→255	Frost
CH19		Focus
CIII9	000←→255	0~100degree
CH20		Zoom
CHZU	000←→255	
		0~100degree
		System Control
	200←→255	All reset
CH21	150←→199	Head reset
	100←→149	Pan and tilt reset
	000←→99	Unused

IX MAINTENANCE AND CLEANING

Cleaning

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out

periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside 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).

Unit not respond to DMX:

1. Check that the DMX cables are connected properly and are wired correctly (pin 3 is "hot"; on some other

DMX devices pin 5 may be 'hot'). Also, check that all cables are connected to the right connectors; it does

matter which way the inputs and outputs are connected.

Note: All information is subject to change without prior notice.

Innovation, Quality, Performance, Achieving Users' Value!