Manuals+ — User Manuals Simplified.

NEO
BLINDER ARRAY
W Clusterable
Multipurpose
RGBAW LED
Blinder

NEO BLINDER ARRAY W Clusterable Multipurpose RGBAW LED Blinder Instruction Manual

Contents

NEO

NEO BLINDER ARRAY W Clusterable Multipurpose RGBAW LED Blinder

Specifications

- Product Name: BLINDER ARRAY W
- Model: NEO-BLINDER ARRAY W
- Power Input: AC 100V ~ 240V 50/60Hz
- Power Consumption: 220W
- Strobe Power: 600W
- Control Protocol: Standard DMX512/RDM protocol
- DMX Channels: Various options from 1 to 41 channels
- Size: 400 x 200 x 192.5mm
- Weight: 10.5 kg

Product Usage Instructions

Control and Programming:

- Connect the product using a 3-pin or 5-pin signal line input/output (XLR 5-pin) or USB input.
- Use DMX512/RDM protocol to control the lighting effects.
- The OLED display provides visual feedback for settings and adjustments.

Lamp Body Structure and Heat Dissipation:

- The product features an aluminum alloy construction for durability.
- Utilize the adjustable speed, low noise, and waterproof fan for efficient heat dissipation.
- The design allows for unlimited splicing of multiple units for expanded lighting setups.

Power:

- Ensure the input power matches the specified range of AC 100V ~ 240V 50/60Hz.
- Connect using the Waterproof Power Cord Input (TRUE1) for power connection.

Optics and Effects:

- The product offers quick and easy upgrades via DMX signal or USB software update.
- Intelligent temperature protection safeguards the LED lamp beads' service life.
- Enjoy 0~100% dimming capability for versatile lighting effects.

SECURITY GUIDANCE INFORMATION

All the products are in good packing when they leave the factory. Please follow the user's manual for operation, Machine failure caused by man-made reasons is not covered by warranty.

- Upon receipt of the luminaire, please unpack it to check for any damage caused by transportation. In case of damage due to transportation, please do not use this lamp and contact the distributor or manufacturer as soon as possible.
- This product is suitable for indoor use, its protection level IP65, lamps should be kept clean, avoid in a wet or dusty environment, use, should be carried out every three months: maintenance.
- Please do not install the lamp directly on the surface of common combustible material.
- Only qualified professionals can install, operate and maintain the lamps and lanterns, and ensure that the operation is strictly in accordance with the procedures described in this operation manual.
- Do not project the luminaire directly on the combustible object. Keep the distance between the luminaire and the illuminated object above 3 meters.
- Do not look directly at the lamp light source (especially for patients with epilepsy), so as not to cause damage to the eyes!
- Please do not turn on the lamps to repair themselves, and do not make any changes to the lighting structure.
- The person who makes the electrical connection must be qualified to operate.
- Before installation, please make sure that the power supply voltage you use is the same as the voltage indicated by the luminaire.
- Each lamp shall be properly grounded and electrically installed by relevant standards.
- Do not connect this luminaire to any other dimming device.
- When the lamp is suspended at a height, for safety reasons, please put the safety rope through the handle or related parts to assist the installation, please refer to the relevant parts of this manual.
- When the LED lens and the glass cover are seriously scratched or broken, they need to be replaced.
- After working for 5 minutes, the surface temperature of the luminaire is 45 ° C, and the surface temperature of the luminaire is 60 ° C when the luminaire is stable (after constant temperature).
- There are no user-repairable parts inside the luminaire. Before starting to operate the luminaire, please check that all the cover plates (or enclosures) are installed.
- Are the screws securely tightened? Never use a luminaire with the cover (or housing) open.
- If you have any questions or suggestions, please contact the distributor or manufacturer.

STRUCTURE AND INSTALLATION OF LAMPS AND LANTERNS
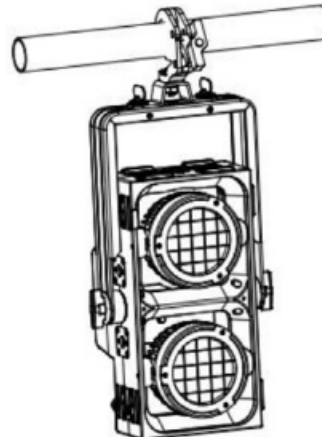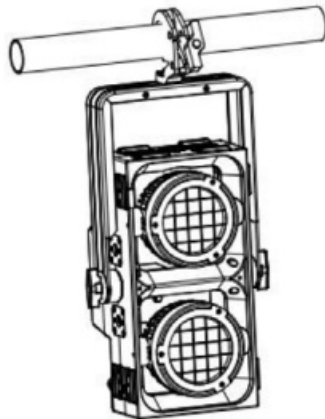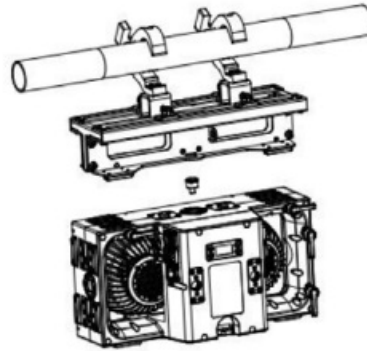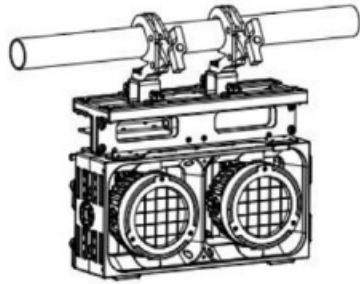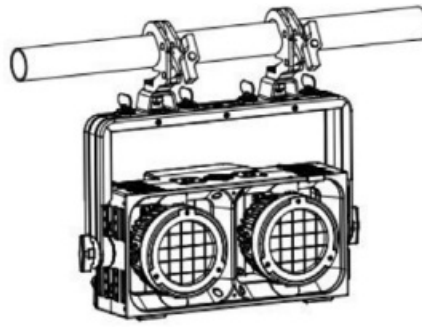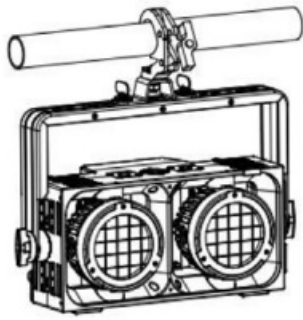
OPTICS

- Light Source: 2x 300W Red, Amber, Warm-White
- Lifespan: 50000 H
- CRI: 88 @ 2800K
- Output: 20.800Lm 32LM/W
- Beam Angle: 50° Flooding Angle: 87°

EFFECT

- Uniformed RAW color mixing system
- Fast Electric Strobe: 1 ~ 20 Hz
- Refresh Rate: 800 ~ 25K Hz(800Hz, 1.200Hz, 2.000Hz, 3.600Hz, 12kHz, 25kHz)
- Dimming duration: three types
- Dimmer: 4 dimming curves

- Vertical Scanning: 360°

SOFTWARE

- Quick and easy upgrade via DMX signal/USB software update
- Intelligent temperature protection to ensure the service life of LED lamp beads
- 0~100% dimming

CONTROL AND PROGRAMMING

- Protocol: Standard DMX512/RDM protocol
- Data connection: 3-pin or 5-pin signal line input/output (XLR 5-pin), USB input
- DMX channels: 1/2/4/9/6 STROBE/6RGB/10/14/13/22/24/33/10/12/17/24/41CH
- Display: OLED display

LAMP BODY STRUCTURE AND HEAT DISSIPATION

- Aluminum alloy construction
- Adjustable speed, low noise, waterproof fan, forced convection heat dissipation
- Unlimited splicing

POWER

- Input: AC 100V ~ 240V 50/60Hz
- Power Connection: Waterproof Power Cord Input (TRUE1)
- Strobe power: 600W
- Consumption: 220W

OTHERS

- Degree of protection: IP65
- Working environment: -20°C~ 40°C
- Start the environment: -20°C 40°C

SIZE

- Size: 400 x 200 x 192.5mm
- Weight: 10.5 kg

496

321.5

192.5
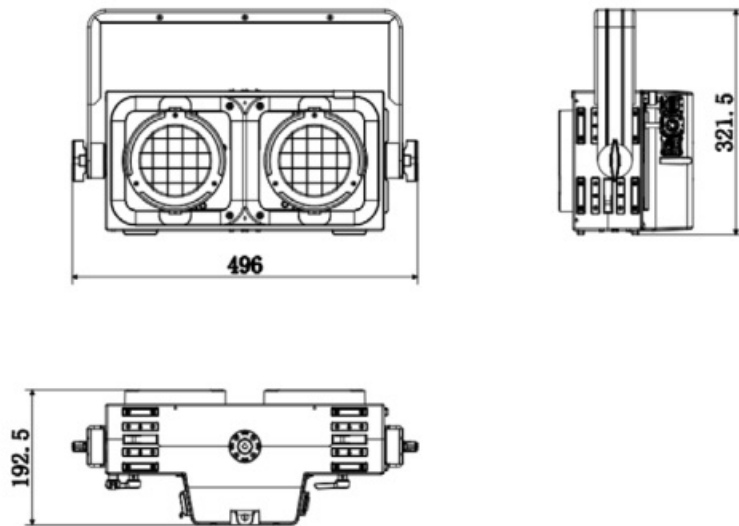
DMX CHANNEL TABLE

CH	1CH DWE	2CH DWE	4CH DWE	5CH STROBE
1	Dimmer	Dimmer1	Dimmer	Master Dimmer
2		Dimmer2	Dimmer Curve	Shutter
3			Dimmer Response	Duration
4			Redshift	Dimmer 1
5				Dimmer 2

CH	7CH STANDARD (default)	10CHEXTENDED	13CH EXTENDED
1	Master Dimmer	Master Dimmer	Master Dimmer
2	Shutter	Shutter	Master Dimmer Fine
3	Dimmer 1	Duration	Shutter
4	Dimmer 2	Dimmer 1	Duration
5	Dimmer Curve	Dimmer 2	Dimmer 1
6	Dimmer Response	Dimmer Curve	Dimmer 1 Fine
7	Redshift	Dimmer Response	Dimmer 2
8		Redshift	Dimmer 2 Fine
9		Effect	Dimmer Curve
10		Device Settings	Dimmer Response
11			Redshift
12			Effect
13			Device Settings

1CH DWE				
CH	Function	Value	Percent/Setting	Remark
1	Dimmer	000-255	0 – 100%	

2CH WE				
CH	Function	Value	Percent/Setting	Remark
1	Dimmer1	000-255	0 – 100%	
2	Dimmer2	000-255	0 – 100%	

4CH WE				
CH	Function	Value	Percent/Setting	Remark
1	Dimmer1	000-255	0 – 100%	
2	Dimmer Curve	000-51	No Function – Current Preset from Menu Settings	
		052-101	Linear Dimmer Curve	
		102-152	Exponential Dimmer Curve	
		153-203	Logarithmic Dimmer Curve	
		204-255	S-Curve Dimmer Curve	
3	Dimmer Response	000-063	No Function – Current Preset from Menu Settings	
		064-127	LED / fast	
		128-191	Medium	
		192-255	Halogen / slow	
4	Redshift	000-084	No Function – Current Preset from Menu Settings	
		085-170	Redshift Off	
		171-255	Redshift On	

5CH STROBE				
CH	Function	Value	Percent/Setting	Remark
1	Master Dim - mer	000-255	0-100%	
2	Shutter	0-19	Shutter close	
		20-24	Shutter open	
		25-64	Strobe 1 (fast → slow)	
		65-69	Shutter open	
		70-84	Strobe 2: opening pulse (fast slow)	
		85-89	Shutter open	
		90-104	Strobe 3: closing pulse (fast slow)	
		105-109	Shutter open	
		110-124	Strobe 4: random strobe (fast slow)	
		125-129	Shutter open	
		130-144	Strobe 5: random opening pulse (fast slow)	
		145-149	Shutter open	
		150-164	Strobe 6: random closing pulse (fast slow)	
		165-169	Shutter open	
		170-184	Strobe 7: burst pulse (fast slow)	
		185-189	Shutter open	
		190-204	Strobe 8: random burst pulse (fast slow)	
		205-209	Shutter open	
		210-224	Strobe 9: sine wave (fast slow)	
		225-229	Shutter open	
		230-244	Strobe 10: burst (fast slow)	
		245-255	Shutter open	
3	Duration	000-255	0 – 100% (0ms – 510ms)	only affects to channel 2 Strobe 1 025-064
4	Dimmer1	000-255	0 – 100%	
5	Dimmer2	000-255	0 – 100%	

7CH STANDARD (default)				
CH	Function	Value	Setting	Remark
1	Master Dim- mer	000-255	0-100%	
2	Shutter	0-19	Shutter close	
		20-24	Shutter open	
		25-64	Strobe 1 (fast → slow)	
		65-69	Shutter open	
		70-84	Strobe 2: opening pulse (fast slow)	
		85-89	Shutter open	
		90-104	Strobe 3: closing pulse (fast slow)	
		105-109	Shutter open	
		110-124	Strobe 4: random strobe (fast slow)	
		125-129	Shutter open	
		130-144	Strobe 5: random opening pulse (fast slow)	
		145-149	Shutter open	
		150-164	Strobe 6: random closing pulse (fast slow)	
		165-169	Shutter open	
		170-184	Strobe 7: burst pulse (fast slow)	
		185-189	Shutter open	
		190-204	Strobe 8: random burst pulse (fast slow)	
		205-209	Shutter open	
		210-224	Strobe 9: sine wave (fast slow)	
		225-229	Shutter open	
		230-244	Strobe 10: burst (fast slow)	
		245-255	Shutter open	
3	Dimmer1	000-255	0 – 100%	

4	Dimmer2	000-255	0 – 100%	
5	Dimmer Curve	000-51	No Function – Current Preset from Menu Settings	
		052-101	Linear Dimmer Curve	
		102-152	Exponential Dimmer Curve	
		153-203	Logarithmic Dimmer Curve	
		204-255	S-Curve Dimmer Curve	
6	Dimmer Res- p onse	000-063	No Function – Current Preset from Menu Settings	
		064-127	LED / fast	
		128-191	Medium	
		192-255	Halogen / slow	
7	Redshift	000-084	No Function – Current Preset from Menu Settings	
		085-170	Redshift Off	
		171-255	Redshift On	
		215-244	2m – 4m50s (10s steps)	
		245-255	5m – 15m (1m steps)	

10CH EXTENDED				
CH	Function	Value	Setting	Remark
1	Master Dimmer	000-255	0-100%	
2	Shutter	0-19	Shutter close	
		20-24	Shutter open	
		25-64	Strobe 1 (fast → slow)	
		65-69	Shutter open	
		70-84	Strobe 2: opening pulse (fast slow)	
		85-89	Shutter open	
		90-104	Strobe 3: closing pulse (fast slow)	
		105-109	Shutter open	

		110-124	Strobe 4: random strobe (fast slow)	
		125-129	Shutter open	
		130-144	Strobe 5: random opening pulse (fast slow)	
		145-149	Shutter open	
		150-164	Strobe 6: random closing pulse (fast slow)	
		165-169	Shutter open	
		170-184	Strobe 7: burst pulse (fast slow)	
		185-189	Shutter open	
		190-204	Strobe 8: random burst pulse (fast slow)	
		205-209	Shutter open	
		210-224	Strobe 9: sine wave (fast slow)	
		225-229	Shutter open	
		230-244	Strobe 10: burst (fast slow)	
		245-255	Shutter open	
3	Duration	000-255	0 – 100% (0ms – 510ms)	only affects to channel 2 – Strobe 1 025-064
4	Dimmer1	000-255	0 – 100%	
5	Dimmer2	000-255	0 – 100%	
6	Dimmer Curve	000-51	No Function – Current Preset from Menu Set- tings	
		052-101	Linear Dimmer Curve	
		102-152	Exponential Dimmer Curve	
		153-203	Logarithmic Dimmer Curve	
		204-255	S-Curve Dimmer Curve	
7	Dimmer Respon- se	000-063	No Function – Current Preset from Menu Set- tings	
		064-127	LED / fast	
		128-191	Medium	
		192-255	Halogen / slow	
8	Redshift	000-084	No Function – Current Preset from Menu Set- tings	
		085-170	Redshift Off	
		171-255	Redshift On	

9	Effect	000-040	No Function	
		041-083	Effect 1 (slow to fast)	
		084-126	Effect 2 (slow to fast)	
		0127-169	Effect 3 (slow to fast)	
		170-212	Effect 4 (slow to fast)	
		213-255	Effect 5 (slow to fast)	
10	Device Settings (please see remark *1)	000-029	No function	
		030-034	Display Backlight On (hold 3s)	
		035-039	Display Backlight Off (hold 3s)	
		040-044	No function	
		045-049	DMX Fail Blackout (hold 3s)	
		050-054	DMX Fail Hold (hold 3s)	
		055-059	DMX Fail – Emergency Light (hold 3s)	
		060-064	No function	
		065-069	RAW (hold 3s)	
		070-074	User Calibrated (hold 3s)	
		075-079	No function	
		080-084	LED Frequency 800Hz (hold 3s)	
		085-089	LED Frequency 1200Hz (hold 3s)	
		090-094	LED Frequency 2000Hz (hold 3s)	
		095-099	LED Frequency 3600Hz (hold 3s)	
		100-104	LED Frequency 12kHz (hold 3s)	
		105-109	LED Frequency 25kHz (hold 3s)	
		110-114	No function	
		115-119	Fan Auto (hold 3s)	
		120-124	Fan Silent (hold 3s)	
		125-129	Fan Off (hold 3s)	
		130-134	Fan High Power (hold 3s)	
		135-139	No function	

		140-144	nvert Mapping On (hold 3s)	
		145-149	Invert Mapping Off (hold 3s)	
		150-154	No function	
		155-159	LED Mode – Illumination (hold 1,5s)	
		160-164	LED Mode – Boost (hold 1,5s)	
		165-169	No function	
		170-174	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250
		175-179	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250
		180-255	No function	

13CH EXTENDED				
CH	Function	Value	Setting	Remark
1	Master Dimmer	000-255	0-100%	
2	Master Dimmer Fine	000-255	0-100%	
3	Shutter	0-19	Shutter close	
		20-24	Shutter open	
		25-64	Strobe 1 (fast → slow)	
		65-69	Shutter open	
		70-84	Strobe 2: opening pulse (fast slow)	
		85-89	Shutter open	
		90-104	Strobe 3: closing pulse (fast slow)	
		105-109	Shutter open	
		110-124	Strobe 4: random strobe (fast slow)	
		125-129	Shutter open	
		130-144	Strobe 5: random opening pulse (fast slow)	
		145-149	Shutter open	
		150-164	Strobe 6: random closing pulse (fast slow)	
		165-169	Shutter open	
		170-184	Strobe 7: burst pulse (fast slow)	

		185-189	Shutter open	
		190-204	Strobe 8: random burst pulse (fast slow)	
		205-209	Shutter open	
		210-224	Strobe 9: sine wave (fast slow)	
		225-229	Shutter open	
		230-244	Strobe 10: burst (fast slow)	
		245-255	Shutter open	
4	Duration	000-255	0 – 100% (0ms – 510ms)	only affects to channel 2 – Strobe 1 025-064
5	Dimmer 1	000-255	0 – 100%	
6	Dimmer1 Fine	000-255	0 – 100%	
7	Dimmer 2	000-255	0 – 100%	
8	Dimmer 2 Fine	000-255	0 – 100%	
9	Dimmer Curve	000-51	No Function – Current Preset from Menu S et- tings	
		052-101	Linear Dimmer Curve	
		102-152	Exponential Dimmer Curve	
		153-203	Logarithmic Dimmer Curve	
		204-255	S-Curve Dimmer Curve	
10	Dimmer Respon- se	000-063	No Function – Current Preset from Menu S et- tings	
		064-127	LED / fast	
		128-191	Medium	
		192-255	Halogen / slow	
11	Redshift	000-084	No Function – Current Preset from Menu S et- tings	
		085-170	Redshift Off	
		171-255	Redshift On	
12	Effect	000-040	No Function	
		041-083	Effect 1 (slow to fast)	
		084-126	Effect 2 (slow to fast)	
		0127-169	Effect 3 (slow to fast)	
		170-212	Effect 4 (slow to fast)	

		213-255	Effect 5 (slow to fast)	

		000-029	No function	
		030-034	Display Backlight On (hold 3s)	
		035-039	Display Backlight Off (hold 3s)	
		040-044	No function	
		045-049	DMX Fail Blackout (hold 3s)	
		050-054	DMX Fail Hold (hold 3s)	
		055-059	DMX Fail – Emergency Light (hold 3s)	
		060-064	No function	
		065-069	RAW (hold 3s)	
		070-074	User Calibrated (hold 3s)	
		075-079	No function	
		080-084	LED Frequency 800Hz (hold 3s)	
		085-089	LED Frequency 1200Hz (hold 3s)	
		090-094	LED Frequency 2000Hz (hold 3s)	
		095-099	LED Frequency 3600Hz (hold 3s)	
		100-104	LED Frequency 12kHz (hold 3s)	
		105-109	LED Frequency 25kHz (hold 3s)	
13	Device Settings (please see re-mark *1)	110-114	No function	
		115-119	Fan Auto (hold 3s)	
		120-124	Fan Silent (hold 3s)	
		125-129	Fan Off (hold 3s)	
		130-134	Fan High Power (hold 3s)	
		135-139	No function	
		140-144	nvert Mapping On (hold 3s)	
		145-149	Invert Mapping Off (hold 3s)	
		150-154	No function	
		155-159	LED Mode – Illumination (hold 1,5s)	
		160-164	LED Mode – Boost (hold 1,5s)	
		165-169	No function	

		170-174	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250
		175-179	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250
		180-255	No function	

MAINTENANCE

- In order to extend the service life of lamps and lanterns, the maintenance of lamps and lanterns is very necessary. If the outdoor environment is bad, or the lamps are placed for a long time, the water vapor and dust will accumulate in the lens cover, the lamp shell, etc. , at the same time also can prevent dust and acid gas on the shell caused by corrosion.
- The frequency of cleaning depends on the frequency of operation and the surrounding environment. When cleaning with soft cloth and general glass cleaning products carefully wipe, recommended at least every 20 days to clean once.
- Please do not use alcohol and other organic solvents to clean the lamp shell, so as not to cause damage.

GENERAL TROUBLESHOOTING

| Failure phenomenon	Cause of failure	Method
No menu display	1. No AC input 2. The switching power supply is damaged 3. Display panel failure	1. Check the power lines 2. Check the voltage output of the switching power supply 3. Replace the display panel
not getting a DMX signal	1. DMX signal line failure 2. The wiring sequence of the signal line is wrong 3. Signal input received signal IC damage 4. DMX address code setting and con- sole, the corresponding control does not match 5. Error setting otherparameters 6. When you enter the menu, you don t press the confirm key or the ESC key to exit to the main menu	1. Check or replace signal lines 2. Check the wiring order of the signal lines 3. Check whether the display panel signal accepts IC and the two resistors strung on the signal line are open 4. Check or reset the address code, or restore the factory settings and test again 5. Press ESC to exit to the main menu
The surface temperature of lamp body is over 75 °	1. LED lamp bead board thermistor failure 2. The temperature control circuit on the display board is out of order	1. Replace the thermistor 2. Check the temperature control circuit on the motherboard
Cast light mixed color uneven, uneven color spots	1. LED welding is not correct 2. The lens or bracket is not fitted properly	1. Check the welding of LED lamp bead 2. Inspect lens assembly process and adjust bracket assembly direction

The beads are not bright or flicker a little	LED damage or no current output drive board	1. Replace LED lamp beads 2. Replace damaged leds or check drive board wiring 3. Replace the corresponding driver IC
Parameters are not saved	IC corruption for storing parameters	Replace the storage IC
The whole lamp is energized and does not work	When the temperature is too high, caused by temperature control protec- tion, switching power supply over tem- perature protection does not work	Wait for the lamp body to cool before turning on

PARAMETERS OF LUMINAIRES

Optical parameters	
Light source	2x 300W Warm White+Amber+Red
Illumination	ALL 24250Lux@1 ALL:2600Lun@3 ALL:1200Lun@5
Color temperature	WW 2750K ±100K
Optical systems	A reflector with a compound eye lens
Color rendering index	Ra≥87
R9	R9≥87
Main wavelength	587nm
Light source life	50000
Beam angle 50%	50°
Maximum angle 10%	87°
Pixel matrix	Point Control/overall control
Strobe	0 20Hz
Power supply parameters	
Input voltage and frequency	100 240VAC , 50 60Hz
Power connection	Waterproof power line input/output, the maximum number of connections
6@230V	
Signal connection	Three-core waterproof signal transfer line input/output, the maximum

number of connections 32	
Constant power	220W
Maximum power	610W
Power factor	0.95/230V
Working Environment	-20 45
Switching power supply	100 240VAC , 50 60Hz
Structure parameters	
Size	Product dimensions 465*80.3*239.8mm Packing size 538*320*180mm
Weight	NET weight 10.3 kg
Protection level	IP65
Cooling system	Fan cooling
The shell	Die-cast aluminum, black (customizable color)
Installation mode	Flat ground, vertical hanging, side hanging
Control	
Control mode	DMX512/Wired RDM
DMX channel	1CH DWE/2CH DWE/4CH DWE/5CH STROBE/7CH STANDARD (default)/ 10CHEXTENDED/13CH
EXTENDED	
Display	The OLED display has four touch buttons
Refresh rate	800Hz/1200Hz/2000Hz/3600Hz/12000Hz/25000Hz
Dimmer delay	LED/Medium/Halogen
Dimming curve selection	Linear /Exponential/Logarithmic/S-Curve
Accessories	
Standard issue	European waterproof power cord 1PCS; specification 1PCS

SHAPE AND DIMENSION DRAWING
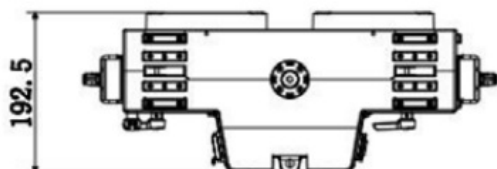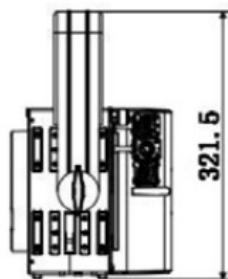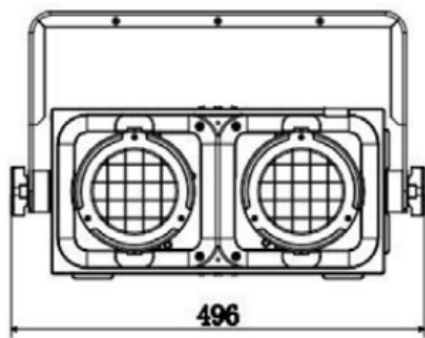
English Version | NEO-BLINDER ARRAY W

FAQs

Q: How can I update the software on BLINDER ARRAY W?
A: You can update the software either via DMX signal or USB software update. Refer to the user manual for detailed instructions.

Q: Can I connect multiple units for a larger lighting setup?
A: Yes, the product allows for unlimited splicing, enabling you to connect multiple units for expanded lighting configurations.

Documents / Resources
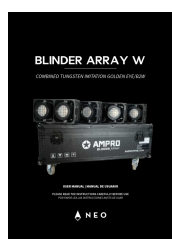
NEO BLINDER ARRAY W Clusterable Multipurpose RGBAW LED Blinder [pdf] Instruction Manual
BLINDER ARRAY W-8, BLINDER ARRAY W Clusterable Multipurpose RGBAW LED Blinder, BLINDER ARRAY W, Clusterable Multipurpose RGBAW LED Blinder, Multipurpose RGBAW LED Blinder, RGBAW LED Blinder, LED Blinder, Blinder

References

- **User Manual**