

# AVS MINI DOT



**200W LED BEAM MOVING HEAD  
WITH DMX CONTROL AND LED SMD RING**

TRADEMARK OF LEDLIGHTINGS LTD. BULGARIA - VAT BG204173724



## Safety First

Please read the instructions prior to first use of the device



This device is operating on 220-240V mains power supply. DO NOT open the device plastic covers when the power cable is connected to the mains power outlet! You risk getting electric shock, permanent damage causing disability or death.

In case you need to open the plastic covers, please follow these steps:

1. Unplug the power cable from the power outlet.
2. Wait 10 minutes for the power supply to drain the capacitors.
3. Open the plastic covers.

The plastic covers may be open for cleaning and maintenance of mechanical parts only!

In case your device is not working due to electrical damage, DO NOT try to repair it yourself! The components inside are serviceable only by a qualified electrician.

For service of AVS products, contact the official distributor for your country or email us at [rma@avs.bg](mailto:rma@avs.bg)

The manual is available in the following languages:  
BG, RO, GR, IT, DE, FR, HR, SR, MK, EN



**SCAN to open the manuals**



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You seek a unique lighting experience,  
and we deliver it – because

*WE DELIVER EMOTIONS*

LEDLIGHTINGS LTD.

established 2016

VAT number BG204173724





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<b>Product technical information</b>	
Operating voltage	AC100~240V, 50~60Hz
Max. power cons.	250W
Light source	LED 200W 5000K, ring LED SMD 21x RGB LED
Life of light source	≥ 20 000 hours
Color wheel	7 colors + open
Gobo wheel	11 gobos + open
Prism	18 facet, rotatable
Frost	Wash effect
Dimming	Linear dimming 0 ~ 100%, high refresh rate (no flicker)
	1 ~ 20 Hz strobe per second, with adjustable strobe speed.
PAN position	0~540°
TILT position	0~200°
Motors	Single phase, high speed, low noise motors
DMX mode	13/15 channels
Screen	LCD display
Control modes	DMX control, sound control, auto mode
DMX connection	3 pin XLR in/out
POWER connection	PowerCON in
IP level	IP20 indoor use



Display panel			
Button	Serial number	Corresponding silk screen printing	Function
	one(1)		Enter the main page /menu at the next higher level
	two(2)		Upper key
	three(3)		Lower key
	four(4)		Enter the selected function/Enter key

Display screen function		
Main page	Set	Parameter setting
	Manu	Manual setting
	Sys	State monitoring, display
	Adva	Advanced parameter configuration
	Eng / Ch	Switch between Chinese and English
	Inv	Display orientation
	Rst	Device reset



<b>Set up</b>	Operation effect	SH0-SH5(SH0 random effect)
	Operational mode	DMX, automatic, voice control
	DMX address	001-512
	Channel mode	Standard 13/15CH
	Voice-activated sensitivity adjustment	0-100
	X invert	Off, on
	Y invert	Off, on
	XY mirror	Off, on
	No DMX signal	Clear, Keep
	Constant on time of screen	Always on, 10S,20S,40S,60S
	Screen intensity	20%, 40%, 60%, 80%, 100%
	Restore default settings	Confirm, cancel
	<b>Manual</b>	X pan
X (16bit)		000-255
Y tilt		000-255
Y (16bit)		000-255
XY speed		000-255
Dimming		000-255
Strobo		000-255
Color wheel		000-255
Gobo wheel		000-255
Prism, rotating		000-255
Frost		000-255
Auto / Sound control		000-255
Reset		000-255
LED ring mode	000-255	



	Speed of LED ring	000-255
<b>System</b>	DMX Channel detection	X
		X fine tuning
		Y
		Y fine tuning
		XY speed
		Aiming
		Stroboscopic
		Color wheel
		Gobo wheel
		Prism, rotating
		Frost
		Self-propelled/voice control
		Reset
		LED ring mode
		Speed of LED ring
		System error record
LED temperature	Temperature display	
DP	Version number	
MT	Version number	
<b>Senior</b>	Enter password	to access this setting, please contact us at <a href="mailto:RMA@AVS.BG">RMA@AVS.BG</a>
	Sensor monitoring	X-axis hall state
		Y-axis hall state
		Hall state of color wheel
		Hall state of gobo wheel
		Prism hall state



		Frost hall state
Reset calibration		X-axis calibration 000-255
		Y-axis calibration 000-255
		Color wheel calibration 000-255
		Gobo wheel calibration 000-255
		Prism calibration 000-255
		Frost calibration 000-255
	Color zero calibration of moving picture	On/off
Maximum power of LED	000-255 (keep factory settings)	
Maximum temperature of LED	50-80 (keep factory settings)	
Frost stroke	000-255 (keep factory settings)	

### DMX CHANNEL CONTROL CONTENT

Detailed description of 13/15-channel mode, receiving DMX512 signal.

Channel		Numerical value	Functional description	
1	1	X axis	000-255	The horizontal shaft runs 0-540 degrees.
	2	X axis fine tuning	000-255	Horizontal fine-tuning fretting
2	3	Y axis	000-255	The vertical axis runs 0-200 degrees.
	4	Y axis fine tuning	000-255	Vertical fine-tuning fretting
3	5	XY speed	000-255	Horizontal/vertical speed from fast to slow
4	6	Total dimming	000-255	Linear dimming, brightness 0-100%
5	7	Turn on/strobe	000-009	Blackout
			010-249	The strobe speed is from slow to fast, 1-20Hz.
			250-255	Full intensity
6	8	Colour	000-009	White light
			010-079	Colors 1-7
			080-139	Half color effect 1-6



			140-197	The color wheel rotates forward, and the speed is fast to slow.
			198-255	The color wheel is reversed and the speed is slow to fast.
7	9	Gobos	000-005	Open
			006-071	Gobos
			072-143	Gobos + shake
			144-199	The wheel rotates forward, and the speed is from fast to slow.
			200-255	The wheel rotates in reverse, and the speed changes from slow to fast.
8	10	Prism	000-099	Prism off
			100-127	18 prism open
			128-255	The prism rotates 360, and the speed changes from slow to fast.
9	11	Frost	000-126	Frost OFF
			127-255	Frost ON
10	12	Self-propelled/voice control	000-029	1-11 channels are valid.
			030-059	Self-propelled mode 1
			060-089	Self-propelled mode 2
			090-119	Self-propelled mode 3
			120-149	Self-propelled mode 4
			150-179	Voice control mode 1
			180-209	Voice control mode 2
			210-239	Voice control mode 3
			240-255	Voice control mode 4
11	13	Reset	000-020	No function
			021-100	Automatic detection of x-axis
			101-200	Y axis automatic detection
			201-249	XY axis automatic detection
			250-255	Wait for 3 seconds, and the lamps will be reset.
12	14	LED ring mode	000-004	Light strip off
			005-074	Color selection of light strip
			075-248	Selection of light strip effect
			249-255	Random effect of light strip
13	15	Scene speed	000-255	Speed from fast to slow (valid at 14: 075-248)



<b>General troubleshooting</b>	
Device can't start normally.	<ol style="list-style-type: none"> <li>1. Change the power cable.</li> <li>2. Check the fuse.</li> </ol>
Problem with the DMX control	<ol style="list-style-type: none"> <li>1. Check whether the DMX starting address of the moving head is set correctly.</li> <li>2. Check whether the DMX XLR is plugged correctly in the DMX input and there is no damage on it.</li> <li>3. If point 1 and point 2 doesn't work, try to connect the device to another DMX controller. If the problem persists with another DMX controller, please contact the reseller as the device might have internal electronic damage.</li> </ol>
Lamps and lanterns work intermittently.	<ol style="list-style-type: none"> <li>1. Check whether the fan works normally and whether the dust blocks the fan and the fan net.</li> </ol>
Device works but without emitting light	<ol style="list-style-type: none"> <li>1. If the device is connected to DMX, please check the shutter and intensity channels in your DMX control system.</li> <li>2. If the device does not emit light during auto or sound mode, probably the temperature is high and the sensors activated protection mode to prevent damage on the LED. Turn off the moving head, wait 15 minutes, turn it back ON and see if the LED is working. If it works, quickly check if the fan behind the LED is spinning and if it does not start in the next 10 sec, it means there is a problem with the sensor or the FAN itself. Contact us at <a href="mailto:rma@avs.bg">rma@avs.bg</a>.</li> </ol>
The light is dim and the brightness drops obviously.	<ol style="list-style-type: none"> <li>1. Check whether the internal and external optical systems are clean.</li> <li>2. Check if there is dirt on the front lens and clean if necessary.</li> </ol>
The shaking light is out of step.	<ol style="list-style-type: none"> <li>1. Make sure the DMX signal is stable, if you're not sure, try to run the moving head in AUTO mode. If the problem is gone, check your DMX signal!</li> <li>2. Try to insert a DMX terminator at the end of the DMX line.</li> <li>3. Check if your software is using steps to create the move effects. If yes, then the steps resolution might be too low, causing the light to start/stop between the steps which looks like shaking. Please check the programming in your software.</li> <li>4. The control chip of the motherboard burned out. Contact <a href="mailto:rma@avs.bg">rma@avs.bg</a></li> </ol>