



BRIGHTER LIGHTING SP. Z.O.O.
ul. Warszawska 111
32-087 Bibice
POLAND
NIP: 9442248196
REGON: 361197164

USER MANUAL

ATOM S+



USER MANUAL

This product manual contains important information about the safe installation and use of this projector. Please read and follow these instructions carefully and keep this manual in a safe place for future reference.

Please read the instructions carefully before use!

1. SAFETY PRECAUTIONS

This fixture is a sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. Manufacturer is not responsible for injuries and damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual. Only qualified or certified personnel should perform installation of this fixture and only the original rigging parts included with this fixture should be used for installation. Any modifications to the fixture and the included mounting hardware will void the original manufacturer's warranty and increase the risk of damage personal injury.

- **PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED**
- **THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF, AS DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS**
- **DO NOT PLUG FIXTURE INTO A DIMMER PACK**
- **NEVER OPEN THIS FIXTURE WHILE IN USE!**
- **UNPLUG POWER BEFORE SERVICING FIXTURE**
- **NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT! KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE**
- **NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE**
- **RETINA INJURY RISK - MAY INDUCE BLINDNESS**
- **SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK**
- **ENSURE THAT ALL CONNECTIONS AND END CAPS ARE PROPERLY SEALED WITH A DIELECTRIC GREASE (AVAILABLE AT MOST ELECTRICAL SUPPLIERS) TO PREVENT WATER CORROSION AND/OR ELECTRICAL SHORT CIRCUIT**
- **KEEP APPROPRIATE DISTANCE FROM OBJECTS/SURFACES 1 METER (3.3 FEET)**
- **MAXIMUM TEMP OF EXTERNAL SURFACE 185° F (85°C)**
- **MINIMUM DISTANCE OF FLAMMABLE MATERIALS FROM THE SURFACE IS 1.6 FEET (0.5 METER)**
- **DO NOT TOUCH THE FIXTURE HOUSING DURING OPERATION. TURN OFF THE POWER AND ALLOW APPROXIMATELY 15 MINUTES FOR THE FIXTURE TO COOL DOWN BEFORE SERVICING**
- **DO NOT SHAKE FIXTURE, AND AVOID BRUTE FORCE WHEN INSTALLING OPERATING**
- **DO NOT operate fixture if the power cord is frayed, crimped, damaged or if any of the power cord connectors are damaged and do not insert into the fixture securely with ease**
- **NEVER force a power cord connector into the fixture. If the power cord or any of its connectors are damaged, replace it immediately with a new one of the same power rating**
- **DO NOT block any air ventilation slots**
- **All fan and air inlets must remain clean and never blocked**
- **Allow approx. 6" (15cm) between fixture and other devices or a wall for proper cooling**

- Always disconnect fixture from main power source before performing any type of service or cleaning procedure
- Only handle the power cord by the plug end. Never pull out the plug by tugging the wire portion of the cord
- During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.
- Consistent operational breaks will ensure fixture will function properly for many years.
- ONLY use the original packaging and materials to transport the fixture in for service.

2. MAINTENANCE GUIDELINES

DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

2.1. CLEANING

Frequent cleaning is recommended to ensure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Periodically clean the external lens surface with a soft cloth to avoid dirt/debris accumulation. NEVER use alcohol, solvents, or ammonia-based cleaners .

2.2. MAINTENANCE

Regular inspections are recommended to ensure proper function and extended life. There are no user serviceable parts inside this fixture. Please refer all other service issues to an authorized our service technician. Should you need any spare parts, please order genuine parts from your local dealer.

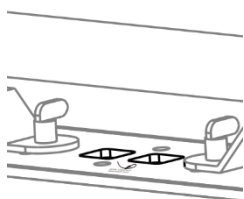
Please refer to the following points during routine inspections:

- A detailed electric check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating
- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall
- Check for any deformations on the housing, color lenses, rigging hardware, and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s)

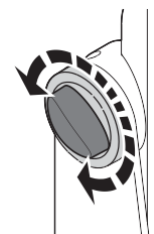
- Electric power supply cables must not show any damage, material fatigue or sediments. NEVER remove the ground prong from the power cable

3.INSTALLATION GUIDELINES

Two quarter-turn brackets are supplied with the fixture if it is to be flown above the ground. Rig the fixture to a support truss or structure using the supplied brackets and suitable clamps.



Fasten a safety wire (not shown) between the support structure and the attachment point on the fixture. The safety wire must be able to bear at least 10 times the weight of the fixture.



The fixture can be tilted from 0° - 170°. To adjust the tilt angle, loosen the two tilt screws, one of each side of the fixture, tilt the fixture to the angle required and re-tighten the screws.

4.SYSTEM MENU

Main Menu	Sub Menu	Option/Value	Option/Value
DMX512	Channel	6CH/11CH/18CH/20CH/36CH	
	DMX Address	001-512	
	W-DMX	On/Off	
	W-DMX Unlink		
Settings	Display mode	Always on	
		10s Off	
		60s Off	
	Dimmer Mode	Mode 1	
		Mode 2	
		Mode 3	
		Mode 4	
		Mode 5	
	Fan mode	Auto	
		High	
		Low	
	Screen Lock	On/Off	Password: ↑↑↓↓ENTER ENTER
	No Signal	Blackout/Hold	
	Dimmer Curve	Linear	
		Exponential	
		S-Curve	
		Logarithmic	

	Signal Priority	Wireless Priority	
		Wired Priority	
		Wireless Only	
		Wired Only	
	Screen Flip	No/Yes	
	Led Frequency	400Hz-24000Hz	
	Reset	Yes/No	
Manual	Manual Dimming	Red	0-255
		Green	0-255
		Blue	0-255
		Amber	0-255
		Lime	0-255
		Cyan	0-255
	Auto	Jump	001-099
		Fade	001-099
Message	Work Time		
	Temperature		
	Version		
	RDM UID		
	Language		

5.DMX CHART

6Ch

CH	Value	Function	Description
1CH	0-255	Red	Dark to light
2CH	0-255	Green	Dark to light
3CH	0-255	Blue	Dark to light
4CH	0-255	Amber	Dark to light
5CH	0-255	Lime	Dark to light
6CH	0-255	Cyan	Dark to light

11Ch

CH	Value	Function	Description
1CH	0-255	Master Dimmer	Dark to light
2CH	0-255	Shutter	
	0-5	Open	

	6-55	Synchronous strobe	The larger value, the faster speed
	56-105	Pulse strobe	The larger value, the faster speed
	106-155	Random strobe	The larger value, the faster speed
	156-205	Pulse open	The larger value, the faster speed Dark to light
	206-255	Pulse close	The larger value, the faster speed Light to dark
3CH	0-255	Red	Dark to light
4CH	0-255	Green	Dark to light
5CH	0-255	Blue	Dark to light
6CH	0-255	Amber	Dark to light
7CH	0-255	Lime	Dark to light
8CH	0-255	Cyan	Dark to light
9CH	0-255	CTO	Color temperature 8000K-2000K
	0-17	Off light	
	18-34	8000K	
	35-51	7500K	
	52-68	6500K	
	69-85	6000K	
	86-102	5600K	
	103-119	5500K	
	120-136	4500K	
	137-153	4000K	
	154-170	3500K	
	171-187	3200K	
	188-204	3000K	
	205-221	2700K	
	222-238	2500K	
	239-255	2000K	
10CH	0-255	Color Tint Adjust	0 – no change 1-64 magenta shift from low to max, 65-127 magenta shift from max to smallest, 128 no shift, 129 -192 green shift from low to max, 193 – 254 green shift from max to smallest, 255 no shift.
11CH	0-255	Control	The value must stop for 5 seconds to make Effect
	0-21	No effect	Menu set, no change
	22-26	LED FREQ	400hz
	27-31	LED FREQ	1200hz
	32-36	LED FREQ	2000hz

	37-41	LED FREQ	4000hz
	42-46	LED FREQ	6000hz
	47-51	LED FREQ	8000hz
	52-56	LED FREQ	16000hz
	57-61	LED FREQ	24000hz
	62-66	Dim Curve 1	Linear
	67-71	Dim Curve 2	Exponential
	72-76	Dim Curve 3	S-Curve
	77-81	Dim Curve 4	Logarithmic
	82-86	Dim Speed 1	
	87-91	Dim Speed 2	
	92-96	Dim Speed 3	
	97-101	Dim Speed 4	
	102-106	Dim Speed 5	
	107-200	No Function	
	201-205	Screen on	
	206-210	Screen saver 1	
	211-215	Screen saver 2	
	216-220	Fan Auto	
	221-225	Fan Fast	
	226-230	Fan Slow	
	231-240	W-DMX Off	
	241-250	W-DMX On	
	251-255	No Function	

18Ch

CH	Value	Function	Description
1CH	0-255	Master Dimmer	Dark to light
2CH	0-255	Master Dimmer Fine	16 bit adjustable
3CH	0-255	Shutter	
	0-5	Open	
	6-55	Synchronous strobe	The larger value, the faster speed
	56-105	Pulse strobe	The larger value, the faster speed
	106-155	Random strobe	The larger value, the faster speed
	156-205	Pulse open	The larger value, the faster speed Dark to light

	206-255	Pulse close	The larger value, the faster speed Light to dark
4CH	0-255	Red	Dark to light
5CH	0-255	Red Fine	16 bit adjustable
6CH	0-255	Green	Dark to light
7CH	0-255	Green Fine	16 bit adjustable
8CH	0-255	Blue	Dark to light
9CH	0-255	Blue Fine	16 bit adjustable
10CH	0-255	Amber	Dark to light
11CH	0-255	Amber Fine	16 bit adjustable
12CH	0-255	Lime	Dark to light
13CH	0-255	Lime Fine	16 bit adjustable
14CH	0-255	Cyan	Dark to light
15CH	0-255	Cyan Fine	16 bit adjustable
16CH	0-255	CTO	Color temperature 8000K-2000K
	0-17	Off light	
	18-34	8000K	
	35-51	7500K	
	52-68	6500K	
	69-85	6000K	
	86-102	5600K	
	103-119	5500K	
	120-136	4500K	
	137-153	4000K	
	154-170	3500K	
	171-187	3200K	
	188-204	3000K	
	205-221	2700K	
	222-238	2500K	
	239-255	2000K	
17CH	0-255	Color Tint Adjust	0 – no change 1-64 magenta shift from low to max, 65-127 magenta shift from max to smallest, 128 no shift, 129 -192 green shift from low to max, 193 – 254 green shift from max to smallest, 255 no shift.
18CH	0-255	Control	The value must stop for 5 seconds to make Effect
	0-21	No effect	Menu set, no change
	22-26	LED FREQ	400hz

	27-31	LED FREQ	1200hz
	32-36	LED FREQ	2000hz
	37-41	LED FREQ	4000hz
	42-46	LED FREQ	6000hz
	47-51	LED FREQ	8000hz
	52-56	LED FREQ	16000hz
	57-61	LED FREQ	24000hz
	62-66	Dim Curve 1	Linear
	67-71	Dim Curve 2	Exponential
	72-76	Dim Curve 3	S-Curve
	77-81	Dim Curve 4	Logarithmic
	82-86	Dim Speed 1	
	87-91	Dim Speed 2	
	92-96	Dim Speed 3	
	97-101	Dim Speed 4	
	102-106	Dim Speed 5	
	107-200	No Function	
	201-205	Screen on	
	206-210	Screen saver 1	
	211-215	Screen saver 2	
	216-220	Fan Auto	
	221-225	Fan Fast	
	226-230	Fan Slow	
	231-240	W-DMX Off	
	241-250	W-DMX On	
	251-255	No Function	

20CH

CH	Value	Function	Description
1CH	0-255	Master Dimmer	Dark to light
2CH	0-255	Shutter	
	0-5	Open	
	6-55	Synchronous strobe	The larger value, the faster speed
	56-105	Pulse strobe	The larger value, the faster speed
	106-155	Random strobe	The larger value, the faster speed

	156-205	Pulse open	The larger value, the faster speed Dark to light
	206-255	Pulse close	The larger value, the faster speed Light to dark
3CH	0-255	Built-in FX	
	0-5	Off	
	6-50	FX 1	FX colour is controlled by FG colour channels
	51-100	FX 2	
	101-150	FX 3	
	151-200	FX 4	
	201-255	FX 5	
4CH	0-255	Macro Speed	0-128 INDEX , 129-191 clockwise rotation from fast to slow, 192 stop, 193-255 counterclockwise rotate slow to fast
5CH	0-255	FG Red	Dark to light
6CH	0-255	FG Green	Dark to light
7CH	0-255	FG Blue	Dark to light
8CH	0-255	FG Amber	Dark to light
9CH	0-255	FG Lime	Dark to light
10CH	0-255	FG Cyan	Dark to light
11CH	0-255	BG Dimmer	Dark to light
12CH	0-255	BG Red	Dark to light
13CH	0-255	BG Green	Dark to light
14CH	0-255	BG Blue	Dark to light
15CH	0-255	BG Amber	Dark to light
16CH	0-255	BG Lime	Dark to light
17CH	0-255	BG Cyan	Dark to light
18CH	0-255	CTO	Color temperature 8000K-2000K
	0-17	Off light	
	18-34	8000K	
	35-51	7500K	
	52-68	6500K	
	69-85	6000K	
	86-102	5600K	
	103-119	5500K	
	120-136	4500K	
	137-153	4000K	
	154-170	3500K	
	171-187	3200K	
	188-204	3000K	

	205-221	2700K	
	222-238	2500K	
	239-255	2000K	
19CH	0-255	Color Tint Adjust	0 – no change 1-64 magenta shift from low to max, 65-127 magenta shift from max to smallest, 128 no shift, 129 -192 green shift from low to max, 193 – 254 green shift from max to smallest, 255 no shift.
20CH	0-255	Control	The value must stop for 5 seconds to make Effect
	0-21	No effect	Menu set, no change
	22-26	LED FREQ	400hz
	27-31	LED FREQ	1200hz
	32-36	LED FREQ	2000hz
	37-41	LED FREQ	4000hz
	42-46	LED FREQ	6000hz
	47-51	LED FREQ	8000hz
	52-56	LED FREQ	16000hz
	57-61	LED FREQ	24000hz
	62-66	Dim Curve 1	Linear
	67-71	Dim Curve 2	Exponential
	72-76	Dim Curve 3	S-Curve
	77-81	Dim Curve 4	Logarithmic
	82-86	Dim Speed 1	
	87-91	Dim Speed 2	
	92-96	Dim Speed 3	
	97-101	Dim Speed 4	
	102-106	Dim Speed 5	
	107-200	No Function	
	201-205	Screen on	
	206-210	Screen saver 1	
	211-215	Screen saver 2	
	216-220	Fan Auto	
	221-225	Fan Fast	
	226-230	Fan Slow	
	231-240	W-DMX Off	
	241-250	W-DMX On	
	251-255	No Function	

36Ch

CH	Value	Function	Description
1CH	0-255	Red 1	Dark to light
2CH	0-255	Green 1	Dark to light
3CH	0-255	Blue 1	Dark to light
4CH	0-255	Amber 1	Dark to light
5CH	0-255	Lime 1	Dark to light
6CH	0-255	Cyan 1	Dark to light
...
31CH	0-255	Red 6	Dark to light
32CH	0-255	Green 6	Dark to light
33CH	0-255	Blue 6	Dark to light
34CH	0-255	Amber 6	Dark to light
35CH	0-255	Lime 6	Dark to light
36CH	0-255	Cyan 6	Dark to light

The pixels are arranged in grid pattern as illustrated bellow:

6	5
4	3
2	1

RDM:

Manufacturer ID 09A4

Model ID 0025

6.SPECIFICATIONS

CONSTRUCTION/PHYSICAL

Dimensions: 420x140x265mm

Weight: 6,6 Kg

Exterior Color: Black

DYNAMIC EFFECTS

Dimmer: Electronic

Strobe: Electronic

Strobe Rate: 0-25Hz

Standalone: Yes

CONNECTIONS

Power Connection: PowerCon TRUE1

DMX Connection: XLR 5-pin

CONTROL

Control Protocols: DMX

DMX Channels: 6/11/18/20/36

Build-in Effects: Yes

ELECTRICAL

Power Supply Voltage: 100-240V 50/60Hz

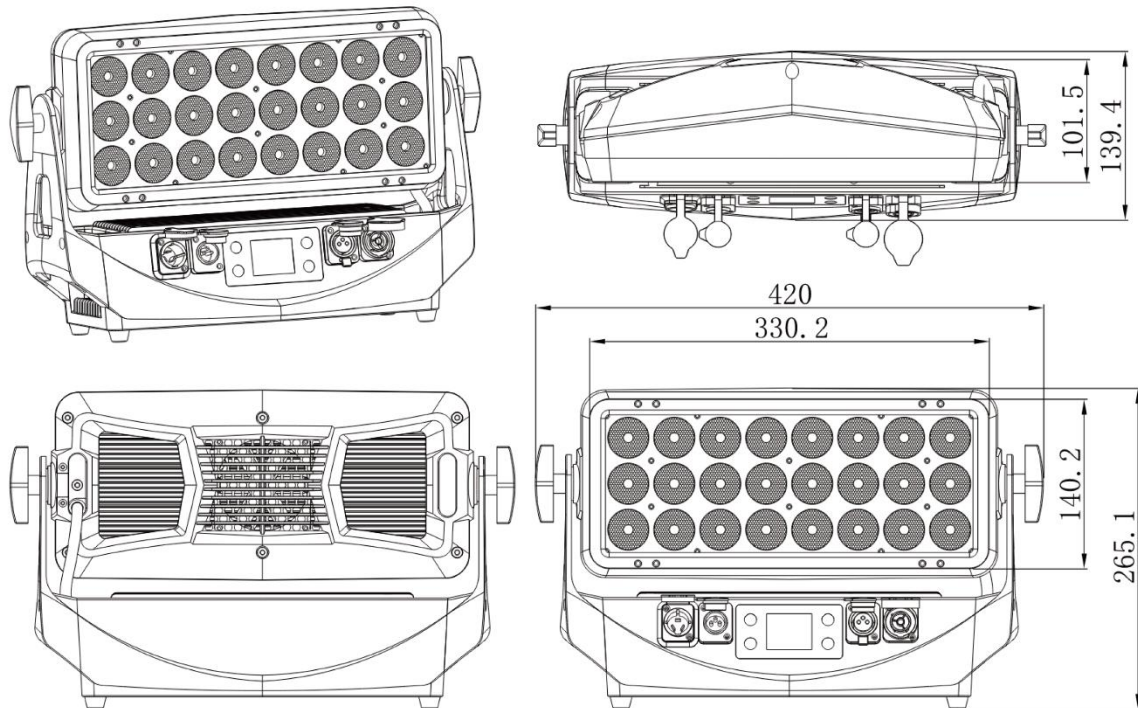
Maximum Power Consumption: 480 W

Light Source: 24x20W RGBALC LED

OPTIC

Beam angle: 25° + Frost filter 40°/55°

7.DIMENSIONAL DRAWINGS





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The manufacturer reserves the right to make changes to technical parameters