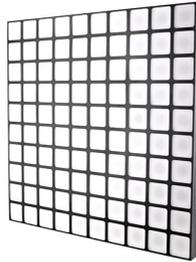# Matrix Pro

10 x 10 LED Block Light

Item ref: 154.053UK

User Manual

Please read through this manual thoroughly before use, any damage
caused by misuse of product will not be covered by warranty.

Powered by 500pcs of high output SMDs, the Citronic Matrix Pro can produce a vast array of colorful moving effects and washes. Internal auto, sound activated, and static programs can easily be controlled by the digital control panel on the back of the unit, alternatively the Matrix Pro can be operated remotely by Art-Net or DMX in either 3, 5, 20 or 300 channel modes if required. Intelligent fan control and temperature protection keep the unit cool during longer operations and twist and lock power connections complete the professional outlook. The Matrix Pro can be mounted on trussing in any direction using the provided quick release fixing clamps. Integrated connections on all 4 sides also allow the fixture to be quickly connected to multiple units producing an amazing wall of brilliant colors, ideal for stage backgrounds and larger events.

In the box:

Your Matrix Pro should arrive with you in a single carton in good condition. The carton should contain 1 x main unit, 1 x twist and lock UK mains lead, 1 x RJ45 Lead 1m, 2 x Mounting brackets, 2 x Hex keys and 1 x user guide.

Warning:

To prevent risk of fire or electric shock, do not expose the unit to rain or damp environments. In the event of a spillage, disconnect the mains and allow the unit to dry out naturally. Qualified personnel should then check the unit before continuing use.

⚠ **Please do not open cover, contains high voltage. This product is not serviceable or repairable by the end user. Please refer to qualified personnel for service and repair.** ⚡
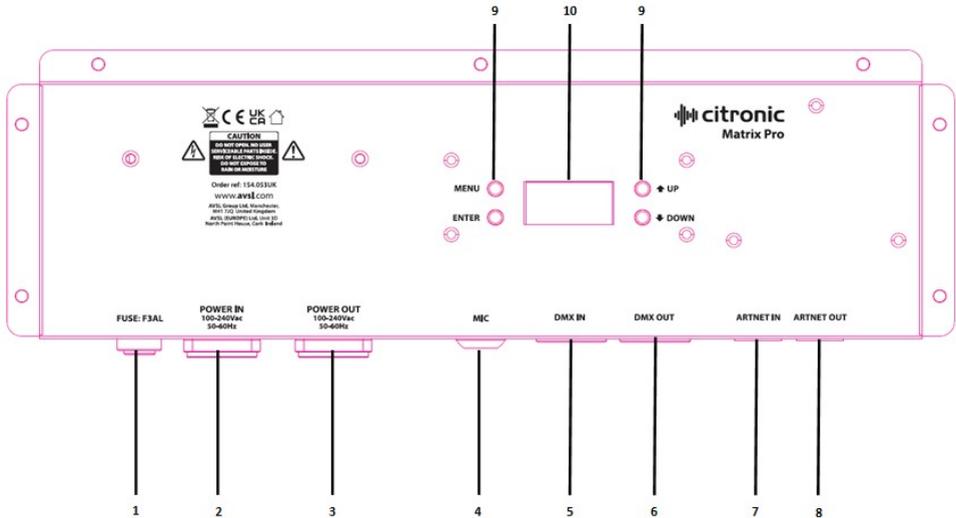
Placement:

- Use the wall/truss mount brackets for fixing to a lighting truss or stud wall.
- Always use secondary safety fixings if mounting overhead.
- Keep away from damp or dusty environments.
- Ensure adequate airflow around the fixture housing.
- Ensure adequate access to controls and connections.
- Do not aim LED output directly into line of sight, as this can result in an eye injury.

Cleaning:

- Use a soft cloth with a neutral detergent to clean the casing as required.
- Do not use strong solvents for cleaning the unit.

Rear panel controls:

1. Fuse	6. DMX Output
2. Power Input (Twist and Lock)	7. Artnet Input
3. Power Output (Twist and Lock)	8. Artnet Output
4. Internal Microphone	9. Control Panel
5. DMX Input	10. LCD Display

Manual control menu:

Press the "**MENU**" button to enter the settings menu.
Press "**UP**" and "**DOWN**" buttons to navigate through various setting functions.
Press "**ENTER**" button to confirm the desired setting.

Menu	Options and Settings			Description
DMX Address	001-512			DMX Address Code
Channel Mode	3ch/5ch/20ch/300ch			DMX Channel Selection
Art-Net Mode	Network Switch (On/Off)			Domain selection
	Universe (1-255)			Network Switch (On/Off)
	IP address (192.168.1.2）			IP address setting
	Subnet mask (255.255.255.0)			Subnet Setting
Stand Alone Mode	Auto Mode	Auto Programs (1-20)		Program Selection
		Dimming (0-100)		Brightness Selection
		Speed (1-100)		Program Speed
		Sound (On/Off)		Sound Control On/Off
		Sensitivity (0-100)		Sound Sensitivity
	Static Mode	Dimming (0-100)		Brightness Selection
		Strobe (0-255)		Strobe speed Selection
		Red (0-255)		Red Brightness Selection
		Green (0-255)		Green Brightness Selection
		Blue (0-255)		Blue Brightness Selection
	Color Macro	Dimmer (0-255)		Brightness Selection
		Color Macro		Color Macro Selection
		Color Fade		Fade Speed Selection
		Color Jump		Jump Speed Selection
Master/Slave Mode	Master Set	Yes/No		Master Selection
	Slave Set	Yes/No		Slave Selection
Advanced Settings	Language	English		Language Selection
		Chinese		Language Selection
	Display Inversion	No		Display Normal
		Yes		Display Inverted
	Display Set	Off		Display Turn Off 30 Sec
		On		Display Constant
	No Dmx State	Blackout		Loss of DMX Signal Blackout
		Auto-Run		Loss of DMX Signal Auto-Prog
		Hold		Loss of DMX Signal Hold DMX Value
	Service	Password (055)		Background Regulation
Information	Firmware	V1.0		Current Software Version
	Time. Info	Total Hours		Total Running Time

DMX mode:

The **Matrix Pro** can be controlled via a standard **DMX512** signal. To connect, simply link your DMX controller to the **DMX IN** socket on the unit using a balanced XLR cable. Additional fixtures can be daisy-chained by connecting from the **DMX OUT** socket of the first fixture to the **DMX IN** of the next.

To activate **DMX mode**:
1. Enter the **menu** and select **A001** (DMX address mode).
2. Use the **UP** and **DOWN** buttons to set the desired **DMX start address**, then press **ENTER** to confirm.
3. Choose the desired **channel mode** (3, 5, 20, or 300 channels) according to your application — see the channel assignment tables below for details.

Art-Net mode:

The **Matrix Pro** can also be controlled via **Art-Net**, a DMX-over-Ethernet protocol. Connect the Art-Net source (such as a lighting console or node) to the fixture's **Art-Net IN** (RJ45) port using a **Cat5e or Cat6** network cable. Multiple fixtures can be linked by connecting from the **Art-Net OUT** port to the next fixture's **Art-Net IN**.

To activate **Art-Net mode**:
1. Enter the **System Menu** and select **Art-Net** as the control mode.
2. Ensure the **Network Switch** is set to **ON** using the **UP**, **DOWN**, and **ENTER** buttons.
3. Once enabled, configure the following network parameters:
   o **Universe**
   o **IP Address**
   o **Subnet Mask**

⚠ **Note:** You must also select the desired **Channel Mode** (3, 5, 20, or 300 channels) in the same way as when using DMX mode.

3 Channel mode:

Channel	Value	Channel Function	
CH 1	000-255	Red	
CH 2	000-255	Green	Color
CH 3	000-255	Blue	

5 Channel mode:

Channel	Value	Channel Function	
CH 1	000-255	Dimmer	LED Dimmer
CH 2	000-005	Full ON	Strobe
	006-010	Off	
	011-033	Slow On and Off	
	034-056	Fast Close Slow Open	
	057-079	Fast Open Slow Close	
	080-102	Random Strobe	
	103-127	Lightning Strobe	
	128-250	Fixed Strobe	
	251-255	Full On	
CH 3	000-255	Red	Color
CH 4	000-255	Green	
CH 5	000-255	Blue	

20 Channel mode:

Channel	Value	Channel Function	
CH 1	000-255	Global Dimmer	Total Dimmer
CH 2	000-255	Show Dimmer	Show Dimmer
CH 3	000-005	Full ON	Strobe
	006-010	Off	
	011-033	Slow On and Off	
	034-056	Fast Close Slow Open	
	057-079	Fast Open Slow Close	
	080-102	Random Strobe	
	103-127	Lightning Strobe	
	128-250	Fixed Strobe	
	251-255	Full On	
CH 4	000-255	Red	Color
CH 5	000-255	Green	
CH 6	000-255	Blue	
CH 7	000-007	No Function	Color Macro

	008-127	Fixed Colors	
	128-191	Color Jump S-F	
	192-255	Color Fade S-F	
CH 8	000-015	No Function	Effect Selection for CH 9
	016-075	Letters	
	076-135	Numbers	
	136-195	Static Pattern	
	196-255	Dynamic Show	
CH 9	When Channel 8 Value is 016-075		
	000-005	Random Letters	Letters
	006-115	Letter A-Z	
	116-255	No Function	
	When Channel 8 Value is 076-135		
	000-005	Random Number	Numbers
	006-115	Number 1-98	
	116-255	No Function	
	When Channel 8 Value is 136-195		
	000-005	Random Static Pattern	Static Pattern
	006-224	Static Pattern	
	225-255	No Function	
	When Channel 8 Value is 196-255		
	000-005	Random Dynamic Pattern	Dynamic Pattern
	006-105	Dynamic Pattern	
	225-255	No Function	
CH 10	000-008	Slow To fast	Effects Speed Selection for CH 9
	009-128	Location	
	129-191	Forward Move S-F	
	192	Stop	
	193-255	Reverse Move S-F	
CH 11	000-127	Horizontally	Movement
	128-255	Vertically	
CH 12	000-063	No Function	Mirror
	064-127	Horizontal	
	128-191	Vertical	
	192-255	Horizontal & Vertical	

Channel	Value	Channel Function	
CH 13	000-063	No Function	Rotation
	064-127	90 Deg	
	128-191	180 Deg	
	192-255	270 Deg	
CH 14	000-005	No Function	Fade
	006-127	Fade In	
	128-255	Fade Out	
CH 15	000-255	Color Dimmer	Background Dimmer
CH 16	000-005	Full On	Background Color Strobe
	006-010	Off	
	011-033	Slow On and Off	
	034-056	Fast Close Slow Open	
	057-079	Fast Open Slow Close	
	080-102	Random Strobe	
	103-127	Lightning Strobe	
	128-250	Fixed Strobe	
	251-255	Full On	
CH 17	000-255	Red	Background Color
CH 18	000-255	Green	
CH 19	000-255	Blue	
CH 20	000-005	No Function	Background Color Wheel
	006-127	Fixed Colors	
	128-191	Color Jump S-F	
	192-255	Color Fade S-F	

300 Channel mode:

Channel	Value	Channel Function	
CH 1	000-255	Red	LED 1
CH 2	000-255	Green	
CH 3	000-255	Blue	
""	""	""	""
CH 298	000-255	Red	LED 100
CH 299	000-255	Green	
CH 300	000-255	Blue	

Specifications:

LED type	500Pcs SMD 5050 3-in-1 RGB LEDs 0.2w each
Effects	RGB colour mixing, Linear dimming 0-100%, Strobe 0-25 times per second
Beam angle	180°
Modes	Auto, Show, Sound, DMX, Art-Net, Master/Slave
DMX channels	3, 5, 20 or 300CH
Connections	Power in/out (twist and lock), DMX in/out (3pin XLR) Art-Net in/out (RJ45)
Power supply	110-240Vac, 50/60Hz
Power consumption	120W
Fuse Rating	F3AL250V
Dimensions	70mm x 550mm x 550mm
Weight	6.6 kg

Troubleshooting:

No power (mains)	Check mains voltage is correct, and outlet is switched on
	Check twist and lock power lead is connected properly
	Check External Fuse of fixture
No light output	Check control panel mode settings
	Check DMX settings from controller (dimmer levels, blackout etc.)
Unresponsive to DMX	Check that unit is in DMX mode and ensure the A on the DMX address flashes to confirm it's receiving a DMX signal
	Check DMX controller is not set to black out
	Check DMX controller is on correct fixture/page
	Check master dimmer value
	Check correct DMX address is set
	Check DMX connection and leads
Overheating/Cutting out	Ensure adequate ventilation and unit is not too close to a heat source

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This product is classed as Electrical or Electronic equipment and should not be disposed of with other household or commercial waste at the end of its useful life. The goods must be disposed of according to your local council guidelines.