

# Animate Smart

Item ref: 152.748UK

## Mini Animation Laser

User Manual

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



A compact, metal smart animation laser that produces a crystal clear array of 51 colourful patterns and animations. 5 control modes including auto, sound to light and DMX512 make this versatile, robust unit perfect for any function and event. You can also create your own text or freehand content using the smartphone application connected to the Animate Smart via Bluetooth, making it ideal for bespoke content such as names or family occasions.

### In the box:

Your laser should arrive with you in a single carton in good condition. The carton should contain 1x main unit with bracket, 1x UK IEC mains lead, 1x laser key and 1x 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.**



## Caution: Laser radiation

Avoid pointing directly towards eyes. Laser output can cause injury if viewed directly. This product is a Class 3B laser and should only be installed and used by persons who are trained in the management of laser radiation and are able to operate in accordance within the guidance given by the Health and Safety Executive (HSE) in "The Safety of Laser Lighting Displays". Information on this guidance can be found on the following website: <https://www.hse.gov.uk/pubns/indq224.htm>



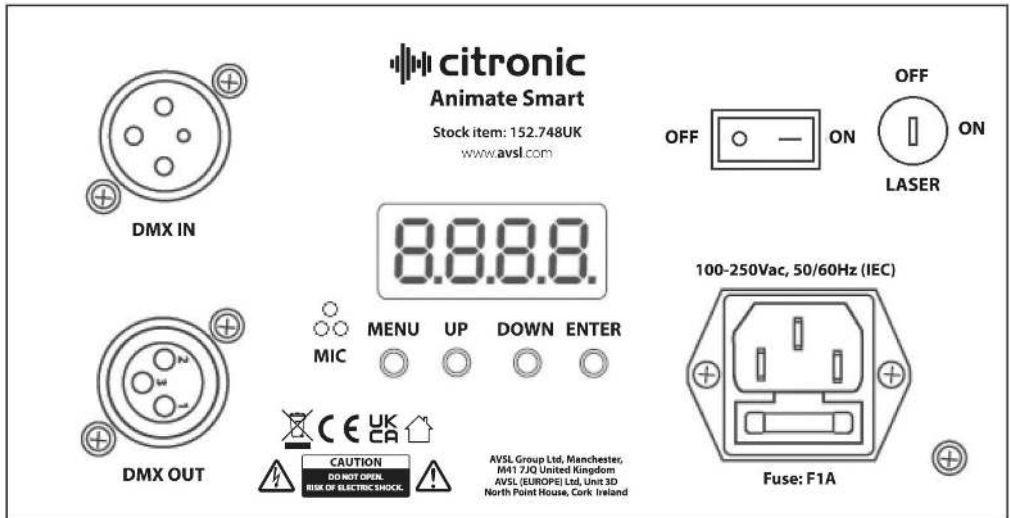
## Placement:

- Use the included mounting bracket to fix to a stand or lighting truss.
- Use secondary safety fixings if mounting overhead.
- Keep away from damp or dusty environments.
- Ensure adequate air-flow around the fixture housings.
- Ensure adequate access to controls and connections.
- Do not aim LED or laser output directly into line of sight, as this can result in eye injury.

## Cleaning:

- Use a soft cloth with a neutral detergent to clean the casing as required.
- Use a vacuum cleaner to clear ventilation grilles of any dust or debris build-ups.
- Do not use strong solvents for cleaning the unit.

## Rear panel controls:



## 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.

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Menu	Display	Function
Addr	1-512	DMX address setting and slave mode setting
SHOW	SHOW 0	All shows by random play
	SHOW 1	Show 1, Geometric shows play
	SHOW 2	Show 2, Dynamic shows play
	SHOW 3	Show 3, inner program text shows play
	SHOW 4	Show 4, Christmas and New year patterns play
	SHOW 5	Show 5, outdoor landmark shows play
	SHOW 6	Show 6, program style shows play

### DMX modes:

The Animate Smart can be controlled by DMX signal, simply connect the DMX signal source to the DMX input on the unit via a balanced XLR lead. Extra fixtures can be controlled by the same DMX signal by looping through the DMX out on the unit. To enter DMX mode, select A001 from the menu and confirm the correct start address by using the "UP" and "DOWN" buttons and "ENTER". The A on the LED display will begin to flash once it's received the DMX signal from the controller. This unit has 16 DMX channels as indicated in the table below:

### 16-CH (start address A001 for 1st unit, A017 for 2nd unit etc):

Channel/Function		DMX-512	Description
CH1	Laser On/Off	0-9	No function
		10-255	Laser on/off
CH2	Colour	0-69	White-Red-Blue-Pink-Cyan-Yellow-Green (Fixed colour option)
		70-79	Whole colour change (chase speed controlled by CH3)
		80-89	Default colour (chase speed controlled by CH3)
		90-92	7-colours (chase speed controlled by CH3)
		93-110	2-Segments colour option, 3 data as one step (chase speed controlled by CH3)
		111-131	3-Segments colour option, 3 data as one step (chase speed controlled by CH3)
		132-149	4-Segments colour option, 3 data as one step (chase speed controlled by CH3)
		150-182	8-Segments colour option, 3 data as one step (chase speed controlled by CH3)
		183-218	16-Segments colour option, 3 data as one step (chase speed controlled by CH3)

		219-253	32-Segments colour option, 3 data as one step (chase speed controlled by CH3)
		254-255	Colour drawing (chase speed controlled by CH3)
CH3	Colour Chase speed	0-1	No function
		10-127	Colour clockwise chase, speed from slow to fast
		128-255	Colour anti-clockwise chase, speed from slow to fast
CH4	Pattern group options	0-24	Inner patterns group 1
		25-49	Inner patterns group 2
		50-74	Inner patterns group 3
		75-99	Inner patterns group 4
		100-124	Inner patterns group 5
		125-149	Dynamic effect group 1
		150-174	Dynamic effect group 2
		175-199	Dynamic effect group 3
		200-224	Dynamic effect group 4
225-255	Dynamic effect group 5		
CH5	Pattern options	0-255	Patterns option (patterns group control by CH4)
CH6	Inner dynamic effect	0-255	Inner dynamic patterns rotation
CH7	Inner dynamic effect speed	0-1	Default speed
		2-255	Manual adjust, speed from slow to fast
CH8	Pattern size	0-255	Pattern size option by manual
CH9	Pattern auto zoom	0-15	Pattern size option
		16-55	From small to big speed option
		56-95	From big to small speed option
		96-135	Zoom speed option
		136-175	Anomaly cycle 1
		176-215	Anomaly cycle 2
		216-255	Anomaly cycle 3
CH10	Central rotation	0-127	Rotation angle option
		128-191	Clockwise rotation speed option
		192-255	Anti-Clockwise rotation speed option
CH11	Horizontal	0-127	Flip horizontal location option

	rotation	128-255	Flip horizontal speed option
CH12	Vertical rotation	0-127	Flip vertical location option
		128-255	Flip vertical speed option
CH13	Horizontal Remove	0-255	Horizontal remove, speed from slow to fast
CH14	Vertical remove	0-255	Vertical remove, speed from slow to fast
CH15	X Wave	0-1	No function
		2-255	Wave range and speed (Range from small to big, speed from Slow to fast, every 32 data as one group, total 8 group)
CH16	Pattern drawings	0-1	No function
		2-63	Manual drawing 1
		64-127	Manual drawing 2
		128-153	Auto drawing (increase)
		154-179	Auto drawing (decrease)
		180-205	Auto drawing (from increase to decrease-reverse)
		206-255	Auto drawing (from increase to decrease-syntropy)

### Smart device connectivity via Bluetooth:

It's also possible to control the Animate Smart using an Apple or Android smart device with the correct application installed via Bluetooth connectivity. To connect to your device please follow the steps below:

1. First install the LightElf application from the Apple or Google app stores, as below:



2. After installation is complete, open the application and power the laser on, then press the "Click me to connect" button on the app to connect with the laser (see point 2.)
3. When you see Laser\_Light\_B815 in the device list, press to select and the app will connect to the laser.
4. Once connected press the on/off slider button to reconnect to the laser at any time (see point 4.).



5. Finally, double tap the required mode button from the above list (see point 5.) to enter the setting screens and make your adjustments.
6. One of the main benefits of the app control is the ability to use both hand drawn and typed text messages, ideal for family gatherings or as a moving message board to display on any small or large surface area.
7. For the "Drawn" free hand mode, first select a colour from the top menu and then ensure the pencil is selected from the bottom menu (see point 7.).
8. Draw your required message or image on the centre panel, then press "Send" to transmit the message to the laser (see point 8.).
9. There are also several freehand shapes and patterns below which can be selected, sized and sent in the same fashion (see point 9.).
10. To start again simply press the "Empty" button to clear the centre panel ready for your next doodle (see point 10.).

- When using "Text" mode the laser can display a typed message in a similar fashion to the free hand mode. First select your desired colour from the top menu, then select your desired font and layout by pressing "Single Line" (see point 11.).



- Enter your message in the text entry field, then adjust the size of the text, transmission distance and flow speed using the sliders in the bottom menu (see point 12.).
- You are also able to add more messages to the sequence if required, by pressing the "+" button next to the text entry field and repeating the same procedure as above (see point 13.).
- When you have finished entering your lines press the send button to transmit the message to the laser (See point 14.).
- In "Scene" mode, you can create your own individual scenes and adjust the settings, sizes, colours and timings of each section accordingly.
- "Animation", "Line", "Christmas" and "Outdoor" modes are already pre-filled with selected animations and effects. Select either "Loop Play" or "Tick Play" options to either loop all the individual animations within the mode together or select individual ones by ticking the relevant box numbers to run in sequence (see point 16.).
- Next make your colour selection by clicking on the relevant button at the top (see point 17.).
- Select either "Auto" or "Music" from the panel at the bottom to choose either automatic mode or sound to light (see point 18.).
- Finally select your play speed and sensitivity ("Sound" mode only) using the sliders at the bottom (see point 19.).

## Specifications:

<b>Power supply</b>	110-240Vac, 50/60Hz (IEC)
<b>Power consumption</b>	22W (max)
<b>Fuse rating</b>	F1A
<b>Laser power</b>	1600mW
<b>Laser Class</b>	3B
<b>DMX channels</b>	16CH
<b>Modes</b>	Auto, Sound, DMX512, Master-Slave, Bluetooth
<b>Connections</b>	IEC power, DMX in/out (XLR), Laser key
<b>Dimensions</b>	188 x 193 x 173mm
<b>Weight</b>	1.89kg

## Troubleshooting:

No power (mains)	Check mains voltage is correct and outlet is switched on
	Check IEC lead and fuse (if fuse continually blows, refer to your dealer)
No laser or light output	Check control panel mode settings
	Check DMX settings from controller (dimmer levels, blackout etc.)
	Check Bluetooth connection to smart device is active
Unresponsive to DMX	Check laser key on rear panel is turned on
	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 on correct fixture/page
	Check master dimmer value
	Check correct DMX address is set
Overheating/cutting out	Check DMX connection and leads
	Ensure adequate ventilation and unit is not too close to a heat source



This product is classed as Electrical or Electronic equipment and should not be disposed 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.

### Errors and omissions excepted.

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