



**SMARTe**

 **WirelessLED**

# Contents

<b>Copyright and Usage</b>	<b>2</b>
<b>Disclaimer</b>	<b>2</b>
<b>Product Modification</b>	<b>2</b>
<b>Safety Information</b>	<b>2</b>
<b>Before You Begin</b>	<b>3</b>
<i>Product Overview</i>	<b>3</b>
<i>Features</i>	<b>3</b>
<i>In the Box</i>	<b>3</b>
<i>Safety First</i>	<b>3</b>
<b>Getting Started</b>	<b>4</b>
<i>Know your SMARTe</i>	<b>4</b>
<i>Power</i>	<b>4</b>
<i>Mounting</i>	<b>4</b>
<b>Operation</b>	<b>5</b>
<i>Power</i>	<b>5</b>
<i>Charging</i>	<b>5</b>
<i>Control Panel</i>	<b>5</b>
<i>Function Modes</i>	<b>5</b>
<i>Static Operation</i>	<b>6</b>
<i>DMX Operation</i>	<b>7</b>
<i>W-DMX Pairing and Unpairing</i>	<b>8</b>
<b>Additional Settings</b>	<b>9</b>
<i>POWER MODE</i>	<b>9</b>
<i>SOFT DIMMER</i>	<b>9</b>
<b>Optional LED Modules</b>	<b>9</b>
<b>Troubleshooting</b>	<b>10</b>

## Copyright and Usage

This manual is © Copyright Components Co. All Rights Reserved.

Wireless LED / Components Co. authorises this manual to be printed and duplicated for informational purposes only. The copy, distribution or modification of this document or content contained herein for any other purpose is expressly prohibited without written consent.

If printing this manual please print the document on A4 paper (210x297mm) or scale appropriately

## Disclaimer

Wireless LED / Components Co. believe the information in this manual is accurate and complete however assumes no responsibility for any error or omissions within this document or any other documentation accompanying the product. We reserve the right to revise this document at any time. The latest version of this document will always be available at <http://www.wirelessled.co.uk/>

## Product Modification

This Wireless LED product has been designed and manufactured to meet the strict requirements of UK, EU and International safety regulations. Any unauthorised modifications to the product could compromise safety and result in the product being non-compliant with relevant standards.

**There are no user serviceable parts within this product.**

## Safety Information

Important safety information is contained within this manual. Please read all instructions fully prior to installation and use of the equipment.

Internationally recognised symbols are used within the document to highlight important messages as follows;



**Critical installation or usage information.**

Failure to comply with this information may cause damage to the product, third part equipment or harm or injury



**Important installation or usage information.**

Failure to comply with this information may cause the product to operate incorrectly

# 1 Before You Begin

## Product Overview

The Wireless LED SMARTe fixture is a UK designed and manufactured LED lighting fixture capable of being used as an uplighter with the standard head or with a range of alternative emitter heads.

## Features

- 4 or 6 Channel DMX operation
- Intuitive LCD menu driven configuration
- 3x OSRAM Olson RGBW LED Clusters
- Integrated *LEE Filters* colour library for standalone use.
- Lithium Ion Battery for up to 20 hours continuous use
- 1300 Lux @ 2m
- W-DMX Wireless DMX (by Wireless Solution)
- 5 pin Neutrik XLR DMX Output
- Machined Aluminum construction
- Designed and Assembled in the UK

## In the Box

Carefully unpack the product and check it arrived complete and without any damage. If there is any apparent damage to the unit or the outer packaging shows signs of mishandling please contact your distributor immediately.

### Single Unit

- 1x SMARTe Wireless LED fixture
- 1x Battery charger
- 1x Power cable (13A or Local Plugtop)
- 1x Quick Reference Card
- This User Guide

### Set of Six

- 6x SMARTe Wireless LED fixtures
- 1x Charging case
- 1x Powercon Cable
- 1x Quick Reference Card
- This User Guide

## Safety First

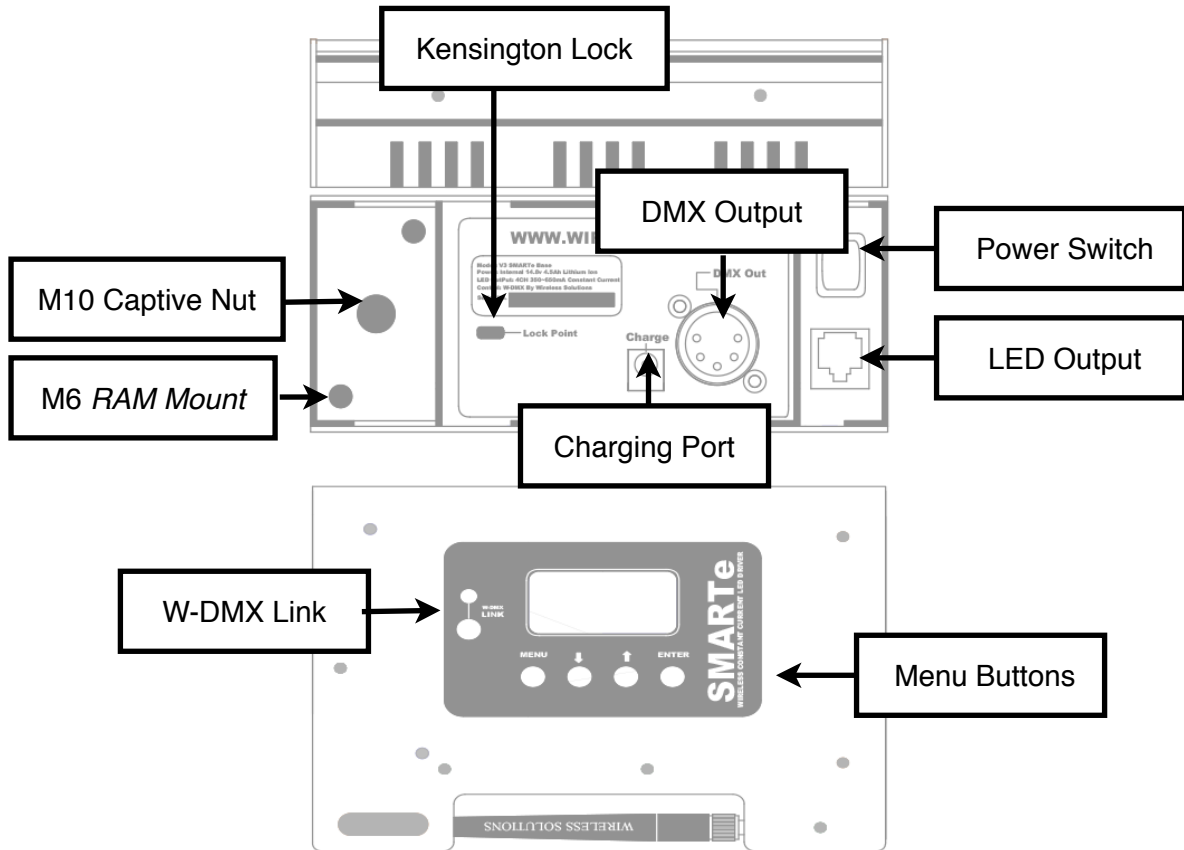
- **AVOID** direct eye exposure to the light source when illuminated
- **DO NOT** submerge this product or expose to water
- **DO NOT** hang this product other than by the means indicated in this manual
- **DO NOT** leave any flammable material near product whilst operating or charging
- **DO NOT** close the charging case whilst charging
- **ALWAYS** ensure the charger is connected to the specified voltage
- **NEVER** connect this product or charger to a dimmer pack
- **DO NOT** operate this fixture if it appears damaged in any way
- **DO NOT** operate this fixture where the ambient temperature exceeds 45°C



**In the unlikely event that your product develops a fault, please contact Wireless LED Technical Support or your local Authorised Distributor. Do not attempt to effect repair yourself.**

# 2 Getting Started

## Know your SMARTe



### Power

The supplied battery charger, for individual units and when integrated into the charging case, operates with an input voltage of 100-240 VAC at 50/60Hz



**Ensure the product is used only with suitably conforming supplies.**

The charger will be supplied with a cable terminated in a 13A plug within the UK market. Changing the plug top will not affect the warranty as long as it is wired correctly. The charger is a double insulated device and so no Earth connection is required.



**Never connect the SMARTe charger or charging case to a dimmer circuit, even where such dimmer has been configured for 'non-dim' or 'switched' operation.**

### Mounting

Always use the product in a safe position and ensure there is enough room around it for ventilation.

The SMARTe is designed to be used freestanding, resting on the floor, or hung using an appropriate mount. An M10 captive nut is provided allowing the fixture to be suspended from a standard hook clamp.



**When hung, always ensure a safety bond is used and secured to the fixture**

Two M6 captive nuts are provided for compatibility with the standard *RAM Mount System*. When using the *RAM Mount System* please consult additional documentation provided with the mounting hardware.

# 3 Operation

## Power

- The unit is powered on and off using the power switch on the unit
- The display will show “Comps Co. SMARTe” for a few seconds before starting
- The display backlight will fade out after a short time to reduce power use



Ensure the head is securely connected to the output port before powering on the unit

## Charging

- Turn the unit off before connecting to the charger
- Only use the supplied charger or charging case
- For best results recharge battery fully before storage
- When charging the battery in the charging case, ensure the case is kept open
- Do not charge the battery for more than 12 hours
- Whilst charging the LED indicator will illuminate in RED
- Once SMARTe is fully charged the LED indicator will show GREEN

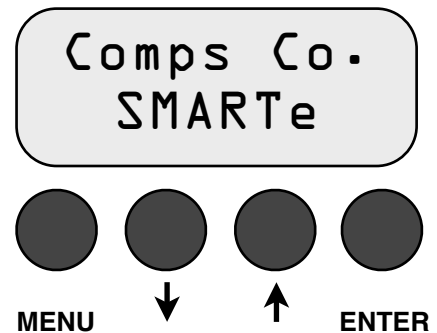


DO NOT use any charger other than those supplied with the SMARTe

## Control Panel

The SMARTe is equipped with an intuitive control panel which is operated with the 4 controls beneath

- <MENU> Exits from the current option or menu
- <ENTER> Enters the currently displayed menu option *or* saves the currently displayed value
- <UP> Navigates forward through the menu list *or* increments a numeric value *or* navigates forward through available values
- <DOWN> Navigates backwards through the menu list *or* decrements a numeric value *or* navigates back through available values



Refer to the *Menu Map* for more information on the menu structure and how the functions relate.

## Function Modes

There are two modes of Operation, accessed through the **FUNCTION** menu;

<p><b>Static</b></p>	<p>In this mode the fixture will output a static colour as selected.</p> <p>Any W-DMX signal, if present, will be ignored and will not affect the light output. If a W-DMX signal is present it will, however, be output via the onboard DMX512 port.</p>
<p><b>DMX</b></p>	<p>In this mode the fixture will be under control of the local W-DMX signal.</p> <p>The options available within DMX mode are described in more detail below.</p>

To change Function press <MENU> and use the <UP>/<DOWN> keys to select “CHANGE Function” and press <ENTER>. Then use the <UP>/<DOWN> keys to select the required function as above and press <ENTER>.

Both modes of operation are discussed in more detail below.

## Static Operation

When in STATIC mode the display will indicate this and show the currently selected colour.

To change the currently selected colour press <ENTER>, the last character of the currently displayed colour will be underlined



You can use the <UP> and <DOWN> arrows to select a colour from the built-in library of 70 pre-programmed colours, including 60 popular *LEE Filters* colours

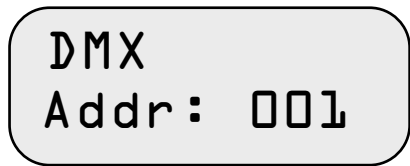
The colour will change as you cycle through the available options however your selected colour will not be saved until you press <ENTER>. If you do not press <ENTER> the colour will revert to the previously selected colour within around 8 seconds.

## Available Colours

<b>cc001</b>	White	<b>Lee075</b>	Evening Blue	<b>Lee157</b>	Pink
<b>cc002</b>	Half Flesh Tone	<b>Lee089</b>	Moss Green	<b>Lee159</b>	No Colour Straw
<b>cc003</b>	Full Flesh Tone	<b>Lee100</b>	Spring Yellow	<b>Lee162</b>	Bastard Amber
<b>cc004</b>	Half Mint Green	<b>Lee102</b>	Light Amber	<b>Lee170</b>	Deep Lavender
<b>cc005</b>	Mint Green	<b>Lee103</b>	Straw	<b>Lee174</b>	Dark Steel Blue
<b>cc006</b>	Half Ice Blue	<b>Lee104</b>	Deep Amber	<b>Lee181</b>	Congo Blue
<b>cc007</b>	Full Ice Blue	<b>Lee106</b>	Primary Red	<b>Lee192</b>	Flesh Pink
<b>cc008</b>	Soft Red	<b>Lee107</b>	Light Rose	<b>Lee199</b>	Regal Blue
<b>cc009</b>	Soft Green	<b>Lee108</b>	English Rose	<b>Lee323</b>	Jade
<b>cc010</b>	Soft Blue	<b>Lee110</b>	Yellow	<b>Lee341</b>	Plum
		<b>Lee113</b>	Magenta	<b>Lee345</b>	Fuchsia
<b>Lee002</b>	Rose Pink	<b>Lee115</b>	Peacock Blue	<b>Lee353</b>	Lighter Blue
<b>Lee009</b>	Pale Amber Gold	<b>Lee117</b>	Steel Blue	<b>Lee652</b>	Urban Sodium
<b>Lee010</b>	Medium Yellow	<b>Lee118</b>	Light Blue	<b>Lee722</b>	Bray Blue
<b>Lee013</b>	Straw Tint	<b>Lee119</b>	Dark Blue	<b>Lee724</b>	Ocean Blue
<b>Lee015</b>	Deep Straw	<b>Lee121</b>	Lee Green	<b>Lee738</b>	Jazz Green
<b>Lee017</b>	Surprise Peach	<b>Lee126</b>	Mauve	<b>Lee765</b>	Lee Yellow
<b>Lee019</b>	Fire	<b>Lee127</b>	Smoky Pink	<b>Lee776</b>	Nectarine
<b>Lee020</b>	Medium Amber	<b>Lee135</b>	Deep Amber Gold	<b>Lee777</b>	Rust
<b>Lee024</b>	Scarlet	<b>Lee136</b>	Pale Lavender	<b>Lee779</b>	Bastard Pink
<b>Lee026</b>	Bright Red	<b>Lee138</b>	Pale Green	<b>Lee789</b>	Blood Red
<b>Lee046</b>	Dark Magenta	<b>Lee139</b>	Primary Green	<b>Lee793</b>	Vanity Fair
<b>Lee058</b>	Lavender	<b>Lee147</b>	Apricot	<b>Lee795</b>	Magical Magenta
<b>Lee068</b>	Sky Blue	<b>Lee153</b>	Pale Salmon		

## DMX Operation

The SMARTe is equipped with a Wireless Solution W-DMX receiver. Use requires a compatible W-DMX transmitter, available separately.



When in DMX mode the display will indicate this and show the currently active DMX Start Address.

The number of channels occupied is dependant on the “**DMX MODE**” setting (2, 4 or 6 channels may be used by the fixture)

## DMX Mode

The SMARTe has 3 modes of operation, these can be selected from the “**DMX MODE**” option under the “**CHANGE Settings**” menu and are as follows;

Mode	Ch #	Function	Notes
2CH	1	Warm White (R+G)	This mode is intended for use with our WW/CW Variable CT heads. Use with RGBW heads is not recommended.
	2	Cool White (B+W)	
4CH	1	Red	This mode does not enable master dimmer or strobe functions.
	2	Green	
	3	Blue	
	4	White	
6CH	1	Red	This mode is recommended where possible to take full advantage of the SMARTe Wireless LED Fixture
	2	Green	
	3	Blue	
	4	White	
	5	Dimmer (0-100%)	
	6	Strobe (0-30Hz)	

## DMX Start Address

To set the DMX start address press <ENTER> when the display shows the current address and use the <UP> and <DOWN> keys to select the start address.

## DMX Output

SMARTe is equipped with a 5pin XLR output which can be used to output the received W-DMX data to other fixtures such as moving heads or traditional dimmer packs near the SMARTe.

It is possible to run the SMARTe as a standalone W-DMX receiver with no LED module attached by disconnecting the LED output cable above the power switch.



## W-DMX Pairing and Unpairing

The SMARTe is delivered un-paired from all W-DMX transmitters. If you purchased a transmitter from us along with your SMARTe units you will still need to manually pair your SMARTe with your new transmitter.

### W-DMX Link LED

The SMARTe is equipped with a W-DMX LINK LED, this provides information on the W-DMX link.

<b>OFF</b>	If the LED is OFF the SMARTe is not paired with any W-DMX transmitter
<b>FLASHING</b>	If the LED is FLASHING the SMARTe is paired with a W-DMX transmitter but is not currently receiving a signal.
<b>STEADY ON</b>	If the LED is STEADILY ILLUMINATED the SMARTe is paired with, and receiving data from, a W-DMX transmitter.

### Pairing

- Power on the SMARTe
- Before pairing ensure the SMARTe is NOT linked to any other transmitter (the LINK LED is OFF)
- If the LINK LED is not OFF see *Unpairing* below
- Ensure the transmitter is within range and press the function button on the transmitter
- The transmitter will scan for all unlinked receivers for around 10 seconds, the LED will flash
- If pairing is successful the LINK LED on the SMARTe will illuminate

For successful linking the receiver must fulfill the following conditions;

- Distance to transmitter (in free air)
  - 200m for Micro model transmitter
  - 500m for BlackBox or WhiteBox transmitter
- Position above obstacles (e.g. crowds and trees)
  - Minimum 1m

SMARTe remembers which transmitter it is paired with even if powered off or the battery is depleted.

### Unpairing

- Power on the SMARTe
- Press and hold the <LINK> button on the SMARTe until the W-DMX Link LED is turned OFF
- SMARTe is now unpaired from the W-DMX transmitter



**It is good practice to unpair the unit if using SMARTe in standalone Static Operation mode.**

## Additional Settings

There are a number of additional settings which can be accessed via the menu system.

### POWER MODE

SMARTe has two power modes that can be selected from within the “**CHANGE Settings**” menu.

<b>Norm</b>	350mA
<b>High</b>	650mA

The “High” option will increase the output of the fixture at the cost of reduced battery life whereas “Norm” will provide a lower output but enables a longer continuous running period.

To change the power mode press <MENU> and use the <UP>/<DOWN> keys to select “CHANGE Settings” then press <ENTER>. Then use the <UP>/<DOWN> keys to select “POWER MODE” and press <ENTER> to select.

Use <UP>/<DOWN> to toggle between “Norm” and “High” and press <ENTER> to save your changes.

This setting affects both Static and DMX mode.

### SOFT DIMMER

SMARTe is equipped with a soft dimmer curve option which ‘smoothes out’ the dimmer curve as well as improving the fade at extremely low levels.

To enable soft dimming press <MENU> and use the <UP>/<DOWN> keys to select “CHANGE Settings” then press <ENTER>. Then use the <UP>/<DOWN> keys to select “SOFT DIMMER” and press <ENTER> to select.

Use <UP>/<DOWN> to toggle between “On” and “Off” and press <ENTER> to save your changes.

This setting only affects use in DMX mode.

## Optional LED Modules

A number of alternative LED modules are available for SMARTe. These can be easily connected in place of the integral LED Wash / Uplighter head using the RJ45 output on the rear of the unit.

For more information consult the documentation provided with your output module.



**DO NOT connect or disconnect the output cable whilst the unit is switched on.**

# Troubleshooting

We expect your SMARTe will give you trouble free service but from time to time problems may arise most of which will be easily resolved following the guide below.



**If you are unable to resolve any problems you experience please contact our technical support team or your local authorised distributor. Please do not open the SMARTe unit or attempt to effect repair yourself.**

Symptom	Potential Cause	Remedy
<b>No Output</b>	Depleted Battery	Charge battery
	Detached output cable	Connect head securely to output
	Incorrect Function	Try setting Function to Static
	No DMX signal received	Check W-DMX signal
<b>Low Output</b>	“Norm” POWER MODE Set	Set POWER MODE to High
<b>Control Panel does not respond</b>	Depleted Battery	Charge battery
	Faulty control board	Contact service
<b>Fixture does not respond to DMX</b>	Wrong DMX addressing	Check DMX address
	Not paired to Transmitter	Unpair and Re-pair W-DMX Link
	No W-DMX signal received	Check W-DMX Link LED and signal
		Adjust W-DMX antenna
External radio interference	Reposition the unit or transmitter	
<b>Fixture does not charge</b>	Fixture switched on	Switch fixture off
	Charger not receiving power	Check the LED on charger
	Faulty charger	Replace charger
	Faulty battery	Contact service
	Faulty charging case	Contact service
<b>No DMX Output</b>	Faulty / Damaged DMX Cable	Replace cable