

Handling and Safety
Manual

Applelec LED Light Sheet

Discuss your project with our Applelec Projects team:
applelecprojects.co.uk | projects@applelec.co.uk | 01274 77 44 77

6. GENERAL SAFETY INSTRUCTIONS

6.1 GUIDE

Thank you for purchasing LED Light Sheet. This technical manual explains the necessary precautions and technical specifications of the product, and includes further information on warranty procedures. The information given in this technical manual should be sufficient for the end-user to handle LED Light Sheet safely.

Please be fully familiarised with the information included in this technical manual before beginning installation or use of LED Light Sheet. LED Light Sheet (“we”, “LED Light Sheet”) is not liable for any damages of any kind resulting from the purchase, use or misuse of, or inability to use the product or arising directly or indirectly from the use, or loss of use of the product, or from the original purchaser’s (“you”, “purchaser”) lack of knowledge or comprehension, including incidental, special, consequential or similar damages, or loss of anticipated profits or benefits. Also be aware that LED Light Sheet is not liable for damages arising from any sort (including negligence or gross negligence) on the part of the purchaser or faults in this technical manual. If in doubt please contact Applelec.

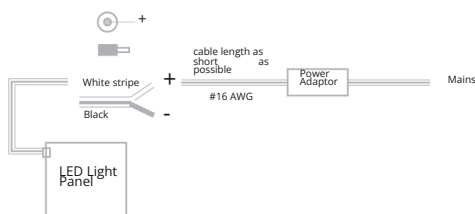
6.2 GENERAL INSTRUCTIONS FOR LED LIGHT SHEET

6.2.1 Warnings

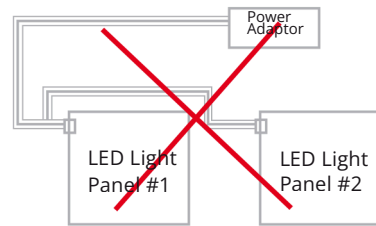
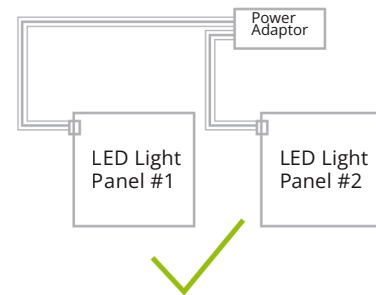
1. **DO NOT** disassemble LED Light Sheet.
2. **DO NOT** apply AC power or any other DC power to LED Light Sheet which is described in the quotation paperwork.
3. **DO NOT** drop or bend LED Light Sheet.
4. **DO NOT** tamper with LED Light Sheet from its original form.
5. **DO NOT** pull on the power wire.
6. **DO NOT** adhere graphics directly to LED Light Sheet.
7. Make sure LED Light Sheet is functioning correctly prior to assembly with or without other products.
8. When handling LED Light Sheet or any of its components prior to assembly, always wear cotton gloves or the equivalent to prevent scratching or staining (e.g. fingerprints) on the LGP.
9. **DO NOT** use any form of alcohol or solvent to clean the LGP or any component in direct contact with the LGP.
10. **DO NOT** cover the metal heat sink. The exposed metal on the back of the LED Light Sheet panel allows the heat generated by the LED to be dissipated thus cooling the LED over time maximising longevity.
11. **DO NOT** remove the aluminium heat sink plate from the LED Light Sheet.

6.2.2 Electric Wiring

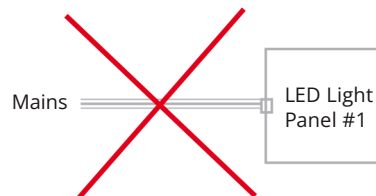
1. LED Light Sheet is powered by a DC 12V (constant voltage) adaptor. Warranty is void if any other adaptor that is not approved by LED Light Sheet is used. Some bespoke projects however, may operate on a different



- voltage which would be confirmed and advised at the quotation stage.
2. Any adjusted cord from the adaptor to LED Light Sheet should be kept as short as possible to avoid a voltage drop of LED Light Sheet, unless specified and supplied by Applelec.
3. One adaptor can supply power to multiple LED Light Sheet units providing the total wattage is less than the capacity of the adaptor. Multiple LED Light Sheet units may be connected by using a spider connector cable.



4. If multiple LED Light Sheet units are wired to one adaptor, connect them in “parallel” not as a “series” to avoid voltage drop and maximize light output.



5. Never apply AC power directly to LED Light Sheet as this will instantly damage or blow the LEDs.

6.2.3 Protective Film

Prior to installation of LED Light Sheet please ensure the clear protective film has been removed from the face of the unit. Failure to remove the protective film will affect the brightness, clarity and even illumination of LED Light Sheet.

6.2.4 Cleaning

1. White cotton gloves should be worn to prevent scratches or fingerprints on the acrylic surface.
2. If fingerprints or other substances are visible on the acrylic surface, gently wipe off with a non abrasive cloth soaked in a watered down thinner.
3. With the cross section cut by a laser, the acrylic surface may crack if excessively exposed to thinner or alcohol.

6. GENERAL SAFETY CONT

6.2.5 Moving

1. Please **DO NOT HANDLE** the acrylic plate as below when lifting up. The LED module embedded within the acrylic plate will be damaged, and the solder pads fractured.



2. LED Light Sheet should be placed on a clean and flat surface. (See picture below)



The longer side of LED Light Sheet should be lifted up slowly. **DO NOT** bend LED Light Sheet when lifting. Lift LED Light Sheet in a vertical position, keeping the unit straight and supporting each corner to maintain rigidity. (See picture below).



6.2.6 Storage

Store LED Light Sheet in a dry area on a plain surface. Always keep LED Light Sheet covered to protect it from moisture and dust. Keep LED Light Sheet away from children.

6.2.7 Opening the delivery

Please note that the product may be damaged if the packaging is opened with a craft knife or a sharp edged tool.

7. WARRANTY

7.1 WARRANTY PERIOD

(based on use within recommended operating conditions)

LED Light Sheet – 3 years (based on use within the appropriate operating conditions, see 7.2)

Light Guide Plate – 5 years

Power supplies – 2-5 years

(please see our warranty terms and conditions available on request or via our website).

7.2 OPERATING CONDITIONS

Operating temperature: 5~35°C (41~95°F).

Operating humidity: 5~95%.

Operating time: 12 hours/day.

7.3 STORAGE CONDITIONS

Storage temperature: 5~35°C (41~95°F).

Storage humidity: 5~95%.

7.4 WARRANTY COVERAGE

7.4.1 What the warranty covers

LED Light Sheet and parts are warranted against defects in materials and workmanship from the date of purchase for the warranty period, provided it is used under normal conditions. During this period, defective products will be repaired or replaced without charge: the LED Light Sheet panel must be returned for this work to be carried out. Under no circumstance will liability be accepted for any special, indirect, incidental or consequential or damages loss owing to failure of the product.

7.4.2 What the warranty does not cover

1. Defects in materials and workmanship after expiry of the warranty period
2. Damage caused by the following
 - Accident, abuse, misuse, misapplication, natural disaster
 - Repair or attempted repair by anyone not authorised by Applelec
 - Using improper power supply
 - Inappropriate use not in accordance with instruction
 - Heavy shock
 - Normal wear

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(based on use within recommended operated conditions)

LED Light Sheet – 5 years (based on use within the appropriate operating conditions, see 7.2)

Light Guide Plate – 5 years

Power supplies – 2-5 years

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