

USER MANUAL



CORE® PinPoint™

**Battery Wireless PinSpot
Lithium Battery with
Bluetooth (BLE) & Wireless DMX**



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Disclaimer

CORE Lighting Limited 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. Please see www.corelighting.co.uk/support to download latest version.

Product Modification

This CORE Lighting product has been designed and manufactured to meet the strict requirements of UK, EU and International safety regulations. Any unauthorised modifications to the product including replacement of parts with non-standard parts 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 party equipment or cause harm or injury



Important installation or usage information.

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

Very important – For safety reasons please read the Safety Information for Magnets at the end of this manual concerning the effect of magnets on heart pacemakers and Implantable Cardioverter Defibrillators (ICDs). Also review for the safety of using strong magnets.

Note: This product contains a lithium ion battery. When transporting this equipment on aircraft please consult IATA Packing Instructions 967 and CORE Lighting Ltd for further information. Note, the capacity of the battery is less than 100Wh which is currently less than the size required for the extra notifications and processes relating to air transport, although the guidelines should be reviewed more thoroughly if shipping in bulk.

Before You Begin

CORE PinPoint is a single LED pin-spot light with magnetic base attachment. It is battery powered and rechargeable, has wireless control from Bluetooth and Wireless DMX (W-DMX) and head focus through an adjustable gooseneck. The unit is also IP65 rated for outdoor use. It's ideal for lighting table-centres, art pieces, enhancing artefacts, or simply providing quick and easy task lighting.

The unit runs for over 8 hours at full power on a single charge which can then be dropped in a charging case with other units ready for next use.

The CORE PinPoint is designed, manufactured and supported in the UK and has local distributor support.

Product Overview

Features include:

- High powered 300lumen warm white LED at 3000K CCT illuminates from 2 storeys high
- Tight 4.5 degree spot beam angle with flexible gooseneck focus
- Lithium Ion Battery – superior charging and weight just 650g
- Strong magnet to attach unit to railings, ceiling metalwork etc.
- Side feet allowing body to rest on a shelf
- Bluetooth control of brightness and channel to enable separate control of individual units
- Units controlled from an app on a tablet or phone (Latest Google Android devices and iOS soon)
- Wireless DMX wireless receiver (2.4GHz W-DMX compatible)
- IP65 casing for outdoor events
- Designed and Manufactured in the UK

Safety:

- AVOID direct eye exposure to the light source when illuminated
- DO NOT submerge this product in water or expose to excessive water spray
- 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
- ALWAYS use the supplied charger or charging case
- ALWAYS ensure the charger is connected to the specified voltage
- ALWAYS ensure the charging case lid is open whilst plugged into mains supply
- 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
- DO NOT place near heart pacemakers or Implantable Cardioverter Defibrillators (ICDs)

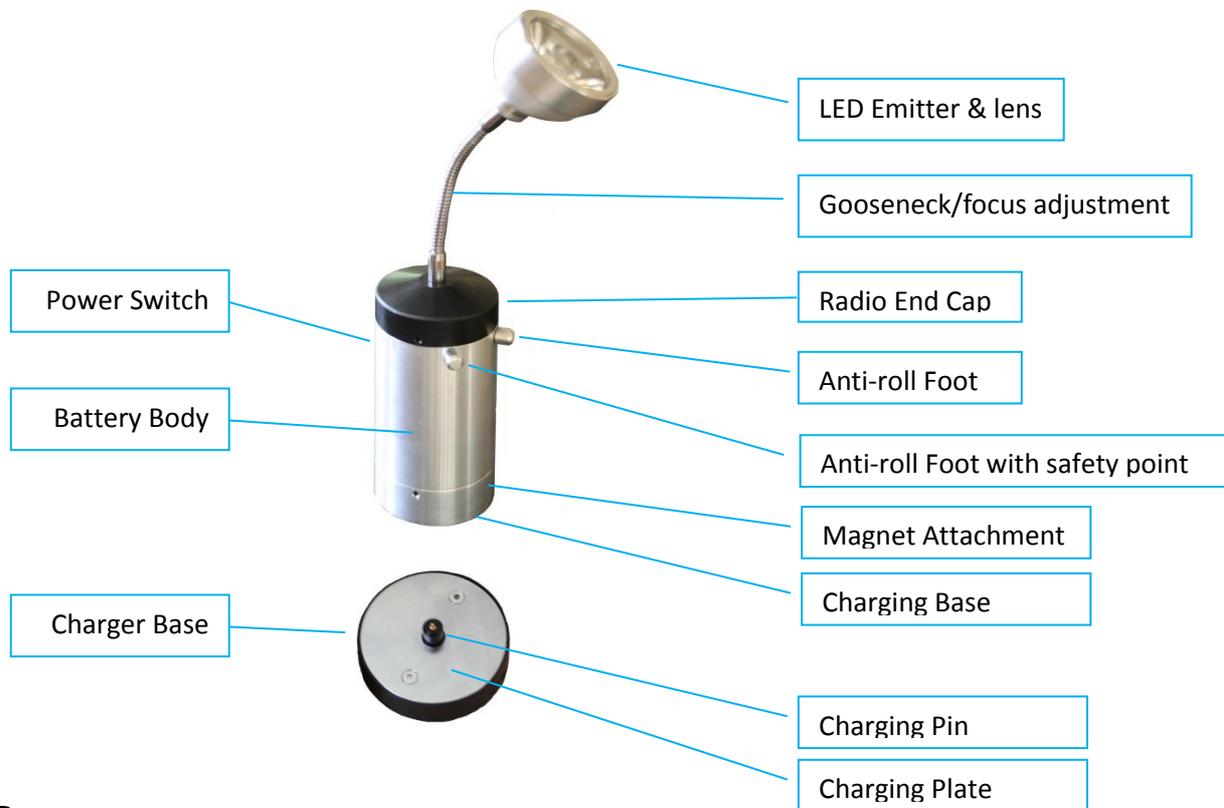


In the unlikely event that your product develops a fault, please contact your local dealer or authorised distributor.

Do not attempt to repair yourself unless specifically instructed by CORE Lighting Ltd.

Getting Started

PinPoint Key Elements



Power

The battery charger may be included as an accessory for individually purchased fixtures or built into the flight case for multiple charging fixtures. In each case the supply has an input voltage range of 100-240 VAC at 50/60Hz.



Ensure the product is used only with correct voltage and frequency of mains supply.



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

Ventilation and Mounting



Always use the product in a safe position and ensure there is enough room around it for ventilation.
Keep the charging case lid open during charging; this allows escape of heat.

Operation

Power & Manual Intensity

- Push and hold the power button for >1 second to switch the unit ON.
- Push again to reduce the intensity by 20%.
- Push again for a further 20%.
- Continue until the unit switches OFF. There are 5 steps to OFF.
- In fact the unit is now in SLEEP mode. The processor will continue to run with a very tiny current which will be maintained for many weeks/months from a full battery, but the main circuit is turned off.



Charging

- **Turn the unit OFF** before connecting to the charger. The charger should turn the unit off in any event after a couple of seconds of being attached and powered.
- Only use the supplied external charger or charging flight case to prevent damage to the units.
- Plug the case or charger into the grid mains wall socket.
- The unit(s) to be charged should be attached onto the charger plate(s). The unit magnetically attaches to this plate which retains the unit onto the contacts and holds in place during transport (for flight case chargers). Ensure the charging pin is fully engaged in the bottom of the unit.
- Whilst charging the LED head will flash very briefly every few seconds. The process will take several hours. Overnight is best.
- Once fully charged the LED head will stop flashing.
- For best results on battery longevity recharge battery fully before storage.
- When charging in the charging case, it is best to **ensure the case lid remains slightly open to disperse heat**, although the lid may be closed onto the LED heads to prevent the flashing becoming distracting as heat generated from the heads will be minimal.
- Switch off the charger unit and unplug once fully charged.



DO NOT use any charger other than the unit supplied with the PinPoint.



When using a charging flight case, ensure the unit is pushed fully down onto the charging plate so the connections are fully made. The bodywork magnetic base provides one of the terminals so ensure this has a good connection with the charger plate by removing any dirt, labels or other insulating materials.

Ensure the charger hole is free of objects and that the gold terminal plate in the end of the hole is visible for contact to be made inside the unit.

Function Modes

The unit possesses three modes to change brightness and set the unit on up to 512 different channels:

- A manual mode capability for operation from the Power Switch if no wireless is available
- Bluetooth Low Energy with suitable control devices such as tablets and smartphones*. This allows Channel Setting and brightness slider control operation with the CORE Apps.
- Wireless DMX Receiver** (receive only where fitted) for control from a lighting desk on different channels. This is an option. Basic use can be made with only Bluetooth and manual control.

Bluetooth channels have the same value as Wireless DMX channels to allow adjustment between devices.

All three modes run concurrently, with the last command taking priority. So if the lighting desk is changed followed by a slider change on the Bluetooth App, the lighting desk level will be used first; this will be followed by the value from the Bluetooth App.

This is useful for a lighting operator who sets a level on a lighting desk 'globally' then wanders around with a tablet or smartphone to set individual local levels at the subject positions on different channels.

The three modes of Operation are accessed through the Power Switch:

Manual	<p>This mode allows the fixture to be dimmed in units of 20% by repeated pressing of the Power Switch. This switch also allows the unit to be turned OFF into SLEEP mode.</p>
Channel Set	<p>When the unit is ON, push and hold the Power Switch for a few seconds until the unit head starts to flash on and off just longer than once every second. This is Channel Setting mode.</p> <p>From a Bluetooth enabled tablet or smartphone with the CORE PinPoint App installed and running, push the desired channel number button on the screen to which the unit is to be 'paired'.* If successfully registered, flashing will stop and the unit may now be controlled from the App, moving the on-screen slider associated with the relevant channel button. If unsuccessfully paired try again until success is achieved, maybe moving closer to the unit if necessary to gain stronger signal.</p> <p>Up to 512 channels are available. Multiple units may be addressed to the same channel or individual units set to different channels. All units in Channel Set mode at any one time are likely to respond to that one Button push on the App, so multiple channels will need to be paired in sequence and not together.</p> <p>Once done the unit may be used or switched off by pushing the Power Switch.</p> <p>The channel set here with Bluetooth also becomes the same channel for Wireless DMX.</p>
Wireless DMX (WDMX) Pairing	<p>With the unit in Channel Set mode above and the lamp head flashing (before accepting a channel), push and hold the Power Switch for a few seconds until the LED head stops flashing and goes solid but dim to 20% maximum. This is WDMX Pairing Mode and allows the unit to be paired with a WDMX transmitter**, plus it disconnects this unit from any other transmitter it was previously paired with.</p> <p><i>Note: WDMX pairing also resets the channel number to 1 as a limited 'factory reset' so if setting up for a new job it's advisable to do WDMX pairing first before setting channel, otherwise the setting will be lost.</i></p> <p>To link to the new transmitter, briefly push the button on the transmitter for 1s then let go. If successfully paired the head will start to flash, whereby the unit is back in Channel Set mode. This allows units to be set using the Bluetooth device mentioned above and below.</p> <p>Note all devices in Channel Set mode will be set to the same channel number at this point. For creating multiple units on different channels the Channel Set function alone will need to be repeated for each channel.</p>

*At the time of going to press the following Android devices were known to be working but it was also known that others were awaiting latest Bluetooth Low Energy hardware to be released on latest models which would include the latest Bluetooth software stack and hardware configuration:

Google Nexus 6

Google Nexus 9

The above devices loaded with CORE PinPoint App downloaded from Google Play Store.

An iOS Apple version of the app 'CORE LightDesk' was currently in development nearing completion to work on numerous versions of smartphones and tablets. Please check with CORE about availability. This will be press released when available, published on the company website and announced on social media including CORE's Facebook page.

**Wireless Solutions W-DMX compatible only.

Devices may be used to control each PinPoint such as:

Wireless Solutions F-1 transmitter attached to a lighting desk.

Wireless Solutions Micro transmitter (lower powered)

CORE ColourPoint uplighter in Master mode

CORE Point15 uplighter in Master mode

CORE Point20 uplighter in Master mode

CORE Point30 architectural unit in Master mode

For successful linking the receiver must fulfill the following conditions:

Distance to transmitter (in free air)

- Less than 50m for Micro model transmitter

- Less than 200m for F-1 transmitter

Position above obstacles (e.g. crowds and trees)



Pairing to a transmitter is remembered after power off or the battery is depleted.

This allows the system pairing to be set up in a warehouse and the whole system simply switched on at the site, which makes deployment very simple.

Mechanical

Dimensions (mm)



Safety Secondary Fixing Point



Flight Case



Safety Information on strong magnets

PinPoint product CORE lighting Advice re handling of product with strong magnet

Information supplied by our manufacturer of the Neodymium Magnet used in this product:

Dangers for children

Ensure that children are not allowed to play with magnets. Fingers can be crushed between the powerful magnets. If they place them onto a CRT television screen or CRT computer monitor screen, permanent damage can occur as colours will become permanently distorted.

Crushing.

When larger magnets are brought close enough together they can have a surprising amount of power. This risks involved are directly proportional to the size (volume) of the magnet and the power grade of the magnet. 4cm3+ = risk of blood blisters.

Fingers are quickly caught between them which can cause blood blisters.

These magnets can jump through very large distances, the biggest danger comes from two magnets spaced apart which as they move closer, can suddenly leap together with extreme speed and force. If you have a magnet in your hand and another is placed on your desk and you accidentally come within the magnetic range of up to 300mm, the one on the desk will leap and accelerate with considerable force which on impact will cause bruising, blood blisters, cuts or crushing. Always consider the magnetic implications of where you place magnets.

Magnetically sensitive Items

Neodymium magnets are very much stronger than "ordinary" magnets. Keep a safe distance (300mm+) between the magnets and all objects that can be damaged by magnetism. These include mechanical watches, heart pacemakers, CRT monitors and televisions, credit cards, diskettes and other magnetically stored media such as video tapes, hard drives and older generation i-pods.

Heart Pacemakers

The operation of heart pacemakers will be affected by the close proximity of a magnet. Magnets can set a pacemaker working in a way that is not suitable for the pacemaker user and that might affect their health. This change will stop when the magnet is removed.

(It is possible that a heart pacemaker will be affected by the close proximity of a magnet as they can cause pacemakers to operate in a mode that does not respond to the user's own heart rhythm. The way a pacemaker responds to a magnetic field differs between manufacturers and therefore people with pacemakers should not put strong magnets close to their chest.

We sought advice from a specialist and the following information represents our best knowledge regarding how heart pacemakers are affected by magnets.

Lindsay Grant (BSc CEng FIET CSci FIPEM ARCP) is a Consultant Clinical Scientist and Head of the Clinical Engineering Department of Medical Physics & Bioengineering at the Royal United Hospital.

Lindsay kindly gave us this advice: "The operation of heart pacemakers will be affected by the close proximity of a magnet. Magnets can set a pacemaker working in a way that is not suitable for the pacemaker user and that might affect their health. This change will stop when the magnet is removed."

She added: "The background to this is that magnets are used to put pacemakers into a mode of working that does not respond to the patient's own heart rhythm. We regularly use magnets in our pacemaker clinics to change the working of the pacemaker, to see how it is operating. Each pacemaker manufacturer uses the 'magnet response' of a pacemaker in a different way, so it is impossible to be more precise than the above statement.

"Some manufacturers have a response that makes the pacemaker pace the heart at 100 beats-per-minute or faster. The

pacemaker will not usually synchronise with the natural heart beat when a magnet is applied. Although in 20 years' experience of putting magnets on pacemakers, I have never had a problem, it is theoretically possible to trigger a life threatening heart rhythm by doing so.")

Implantable cardioverter defibrillators (ICDs)

The following information is taken from the website link

http://www.heart.org/HEARTORG/Conditions/Arrhythmia/PreventionTreatmentofArrhythmia/Devices-that-may-Interfere-with-Implantable-Cardioverter-Defibrillators-ICDs_UCM_448464_Article.jsp

Magnets: Magnets in general may or may not affect your ICD operation so it is best to avoid close and prolonged contact with any of them. Magnets can activate a switch which can prevent the ICD from delivering treatment therapies such as life-saving shocks.

- Keep magnets at least 6 inches (15 cm) from the ICD site.
- Avoid magnet therapy such as used in bracelets and necklaces that may be worn for extended periods of time near the ICD.
- You may not know what does or doesn't have a magnet in it. If you feel any interference, move away from the source or turn it off if possible.

Nickel allergies (Only relevant if the magnet is removed from inside the PinPoint unit)

Our Neodymium magnets are nickel-plated. Nickel is a metal which can cause an allergic reaction in some people. Nickel allergies can be acquired through long-term contact with objects that release nickel.

As a precaution, avoid long-term contact with nickel-plated magnets (e.g., jewellery) and totally abstain from contact with nickel-plated materials if you already have a nickel allergy. How much or little it takes to trigger a nickel allergy is debatable. Euro coins contain 25% nickel.

Effects on people

Millions of people worldwide wear Neodymium magnets to promote health and well being.

We have found no evidence at all of detrimental effects of Neodymium magnets on people or animals - quite the reverse!



Warranty

CORE Lighting Limited (CORE Lighting) warrants this product to be free from defects in materials and workmanship (subject to the terms set forth below).

CORE Lighting will repair or replace (at CORE Lighting's option) this product or any defective parts in this product. The standard warranty period is 24 months from date of purchase, excluding battery pack which is 12 months, although this period may vary from country to country. If in doubt consult your dealer and ensure that you retain proof of purchase.

To obtain warranty service, please contact the CORE Lighting authorised dealer from which you purchased this product. If your dealer is not equipped to perform the repair of your CORE Lighting product, it can be returned directly to CORE Lighting, with carriage being paid at your own expense. You will need to ship this product in either its original packaging or packaging affording an equal degree of protection. Providing the product is found to be faulty, CORE Lighting will pay for return carriage.

Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that this product is within the warranty period, must be presented to obtain warranty service.

This Warranty is invalid if (a) the factory-applied serial number has been altered or removed from this product or (b) this product was not purchased from a CORE Lighting authorised dealer.

This Warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of, the product. This Warranty does not cover damage due to improper operation, maintenance or installation, or attempted repair by anyone other than CORE Lighting or a CORE Lighting dealer, or authorised service agent which is authorised to do CORE Lighting warranty work. Any unauthorised repairs will void this Warranty. This Warranty does not cover products sold AS IS or WITH ALL FAULTS.

REPAIRS OR REPLACEMENTS AS PROVIDED UNDER THIS WARRANTY ARE THE EXCLUSIVE REMEDY OF THE CONSUMER. CORE LIGHTING SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY IN THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY LAW, THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES WHATSOEVER INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PRACTICAL PURPOSE.

Some countries and US states do not allow the exclusion or limitation of incidental or consequential damages or implied warranties so the above exclusions may not apply to you. This Warranty gives you specific legal rights, and you may have other statutory rights, which vary from state to state or country to country.

For any service, in or out of warranty, please contact your dealer.

Compliance Information

System Compliance

CORE Lighting Limited declares that this product conforms to the specifications listed in this manual, following the provisions of the European R&TTE directive 1999/5/EC:

Restrictions on Hazardous Substances (RoHS) (2002/95/CE)
Electromagnetic Compatibility (2004/108/EC).
Safety (EN 60950)
Technical requirements for radio equipment. (EN 300 328)



CAUTION—This equipment is intended to be used in all EU and EFTA countries.

Outdoor use may be restricted to certain frequencies and/or may require a license for operation. Contact local Authority for procedure to follow.

FCC & Industry Canada Statement for Radio Compliance W-DMX Receiver

We,

CORE Lighting Limited
Prindion House
Kingsmill Lane
Painswick
Gloucestershire GL6 6SA

declare under our sole responsibility that the product

FCC ID: UQT-WDMXOEMPCBF
Model: W-DMX OEM PCB F

complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or locate the receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Warning for North America, and Australia

This unit does not transmit, therefore no consideration is currently necessary for RF transmission effects

WEEE & RoHS Statement



The European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE), requires that products must not be disposed of the normal unsorted municipal waste stream. Appliances must be collected separately in order to optimise the recovery and recycling of the materials they contain and reduce the impact on human health and the environment.

The consumer must contact their local authority or retailer for information concerning disposal of their products.

CORE Lighting provides a take-back facility for batteries used within CORE Lighting products, although the expense for transport remains the liability of the consumer. Please contact CORE Lighting directly if this service is required.