Instruction Manual
Limitless LED Bulb with 2.4Ghz Wireless Remote Control

Welcome to the Limitless Smart LED Lighting System.
Please read the instruction manual carefully before using.
Please keep this instruction manual in a safe place for quick reference later
when you need to add additional bulbs or to re-configure remote/s.

Content

1. Safety Guide
To reduce the risk of electric shock, please ensure the light socket is turned off
at the wall light switch before replacing light bulbs.

Even though the Limitless Smart LED Bulb is cold to touch shortly after normal
operation, please be careful when handling the metal cooling fins as they may
contain sharp edges. Always hold the bulb by the acrylic lens.

If the light fitting is damaged, please seek professional electrical assistance,
or if the LED bulb base is damaged, please discard the LED bulb.

Instruction Manual
Limitless LED Bulb with 2.4Ghz Wireless Remote Control

Welcome to the Limitless Smart LED Lighting System.
Please read the instruction manual carefully before using.
Please keep this instruction manual in a safe place for quick reference later
when you need to add additional bulbs or to re-configure remote/s.
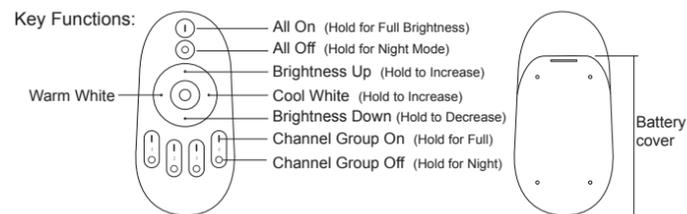
Content

1. Safety Guide
To reduce the risk of electric shock, please ensure the light socket is turned off
at the wall light switch before replacing light bulbs.

Even though the Limitless Smart LED Bulb is cold to touch shortly after normal
operation, please be careful when handling the metal cooling fins as they may
contain sharp edges. Always hold the bulb by the acrylic lens.

If the light fitting is damaged, please seek professional electrical assistance,
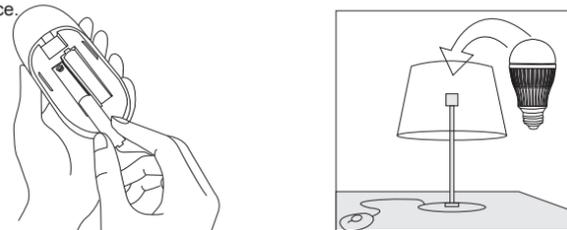or if the LED bulb base is damaged, please discard the LED bulb.

P1

Key Functions:

All On (Hold for Full Brightness)
All Off (Hold for Night Mode)
Warm White
Brightness Up (Hold to Increase)
Cool White (Hold to Increase)
Brightness Down (Hold to Decrease)
Channel Group On (Hold for Full)
Channel Group Off (Hold for Night)

Battery cover

2. Introduction
Quick and Easy installation of the Limitless Smart LED Bulb is the same as
any other common light bulb. The bulb must be screwed into the light socket
and switched on at the wall for 2.4Ghz wireless operation, allowing the remote
control to turn the LED bulb on/off, dim/brighten and colour change from warm
white/cool white. No additional antenna is needed.

The Limitless Smart LED Bulb with Wireless Remote will also work with other
Limitless Smart LED Bulbs and Limitless Wireless Remotes. The Limitless
lighting system uses industry standard 2.4Ghz wireless and has a range of 65
feet / 20 meters. Secure communication is done by syncing the remote and
bulb once.

3. Bulb and Wireless Remote Setup

3.1 Battery Installation
·Please take the remote control and carefully press the battery cover and
push it away in a downward motion. Install two AAA batteries as is shown in
the picture, exactly match the negative (-) pole of each battery to the largest
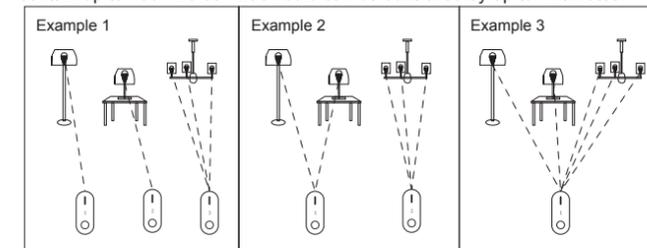spring. Place the battery cover back and install tightly.

P2

3.2 LED Bulb Installation
·Take the led bulb out of the packaging, holding it only by the acrylic lens.
·Switch off the power at the wall or lamp switch before installation.
·Replace the original light bulb with the new Limitless Wireless Smart LED Bulb.
·Switch on the power, the led bulb will light under normal circumstances.
·Sync a remote to the bulb as per 3.3 below and set to full brightness and colour.
·If the bulb does not sync, then firstly clear the previous channel as per 3.3.5.

3.3 Quick Remote Control and LED Bulb Syncronisation
Each bulb must first be securely syncronised to the remote, also known as code
pairing. Each remote can control up to 4 groups of bulbs and each group can
contain up to 100+ Bulbs. Each bulb can be controlled by up to 4 remotes.

Example 1	Example 2	Example 3

① **Please ensure that the remote batteries and bulb are installed.**
② **Bulb and Group syncronisation can only be done in the first 2 seconds of turning the light bulb wall switch on.**

Please choose the smart lights that you want to sync the remote with, then switch
off the power, after the light has gone out, switch on the power again, and within 2
seconds please press the "Channel On" key on the upper side The lamp will
blink 3 times to confirm it is securely synced. Please repeat the above steps to
program more lamps with the remote as needed. Each bulb can belong to one
channel per remote, and 100+ bulbs on each channel. Each bulb can belong to
up to 4 remotes, a different channel on each of the 4 remotes is possible. When a
bulb is syncronised to a 5th remote the 1st remote syncronisation is erased.

P3

---

③ Easy operation with the Limitless Wireless Smart Remote

After syncronisation of the Limitless Smart LED Bulb with a channel on the
Limitless Smart Remote, the following functionality of the remote applies;
·Switch on the power to the light bulb at the wall switch.
·Pressing the "All On" button will illuminate all the lamps that were
syncronised with the channels on that particular remote. If you "press and hold"
the "All On" button, all bulbs will be instantly set to their maximum brightness.
·Pressing the "All Off" button will turn off all the bulbs. If you "press and hold"
the "All Off" button, all bulbs will be placed into Night Mode, see 3.3.4.
·The central control panel controls dimming levels and warm white to cool
white colour levels. Use the up and down for incremental dimming, whilst holding
the up or down will repeat the dimming action until full brightness or full dim is
reached. Use the left for Warm White and right for Cool White, whilst holding the
left or right will repeat the colour change until the full colour change is reached.
·Press the corresponding group "Channel On" button to operate the
particular group that you want. Once this button is pressed the central control
panel will now operate just for that particular group of bulbs on their own. If you
"press and hold" the "Channel On" button all bulbs within the group will
be instantly set to their maximum brightness. If you
"press and hold" the "Channel Off" button all bulbs in the group will be
placed into Night Mode, see 3.3.4.

Tip 1: If you would like to operate two or more groups at the same time, please
press the "All On" button then turn off the groups which are not needed,
then use central control panel to operate the remaining groups at once.

Tip 2: When the power is on, and the LED bulb is turned off by the remote, it
switches into standby mode, the power consumption of each bulb is 0.3W

Tip 3: The Limitless Smart LED Bulbs will remember their colour and dimming
levels even when the power was turned off. Also, if you lose the remote,
the light will still operate as per normal from the wall switch.

P4

---

④ Energy Saver Night Light Mode

Limitless Smart LED Bulbs shine a soft moon like light when the night light
function is activated. Great for hallways and kids rooms during the night.
"Press and Hold" the "All Off" button for 2 seconds to command all bulbs to
go into Night Light Mode. To command only a single channel for Night Light
mode, "Press and Hold" a "Channel Off" button

Each bulb consumes very low energy, using just 0.4W, under night light mode.

⑤ Clear/Reset the Smart LED Bulb for re-sync with remotes

Occasionally you may wish to swap the LED bulb from one channel to another
on the same remote. The best way to do this, is to clear/reset the bulb from all
syncronised remotes, and syncronise each remote to the bulb again, this time
selecting the new channel on each remote.

·Switch off the power of the bulb that you are going to clear/reset.
·Switch it on, and within 2 seconds, quickly press 5 times, the "All On"
button or "Channel On" button
·The lamp will blink 6 times to confirm that it is now cleared/reset.

Special Note:
Each time you change the dim level or colour setting for each bulb, the settings
are saved into the Smart LED bulb's internal solid state memory. If you switch the
wall power off and back on again, the bulb will then return to its previous settings,
the same settings will resume even if the bulb is moved to a new light fitting.

If you turn off the bulb or switch off the power when it is in Night Light mode, the
previous dim level and colour setting, from before the Night Light mode, will
resume when you switch the bulb on. The same applies when the bulb is placed
into "Master Off" or "Channel Off" mode, and then switched back on.

P5

---

4. Addition or Replacement of Limitless Bulbs and Remotes
4.1 Battery Replacement

The remote can be used directly after replacing the batteries, the previous
channel settings stored inside the remote are kept.

4.2 Limitless Smart LED Bulb Replacement

Follow the below steps to syncronise the smart remote when you need to add
new bulbs or replace the original ones.

·Switch off the power of the bulb that you are going to replace.
·Take out the bulb and screw the new or replacement bulb into the lighting
fixture carefully.
·Switch it on, and within 2 seconds press the "Channel On" button that you
want to syncronise the bulb with. For full details see No. 3.3.2.
·Continue this same process for all remotes you wish to syncronise the new
bulb with. You can use a different channel on other remotes to control the same
bulb.

4.3 Limitless Smart Remote Replacement

·Set the new remote after installing the batteries as per No. 3.3.2.
Special Note: Each Limitless Smart LED Bulb can be controlled by 4
remotes Max. When you attempt to syncronise the 5th remote with the same
bulb, the first syncronised remote will no longer operate the corresponding bulb
anymore.

5. Frequently Asked Questions (FAQ)

Question: When I turn the LED bulb off with the remote, does the bulb
consume the power?
Answer: Yes, a very low 0.3W per bulb.

P6

Question: Can four individual remotes control the same bulb?
Answer: Yes, one channel on each remote can control the same bulb.

Question: What is the remote distance and frequency?
Answer: The remote control system is designed to IEEE 802.15.4 standards,
the remote distance is 65 feet / 20 meters, and the frequency is 2.4GHz.

Question: Does the remote have to point at the LED bulb when I use it to
control the light?
Answer: No, 2.4Ghz wireless signals will work through any walls in the home.

6. Troubleshooting
6.1 The bulb doesn't respond to the remote?
·Check if the power is switched on at the wall.
·Check if the battery levels of the remote are normal.
·Check if the bulb is syncronised with other channels on the remote.
·Clear/Reset the bulb using 3.3.5, and then re-syncronise the remote with the
bulb using 3.3.2.

6.2 The bulb changes unexpectedly by itself.
·Possible reason: The bulb may be controlled by another remote.
Solution: You can resolve this by clearing/reseting the bulb as per instructions
in 3.3.5.

7. Please Discard Bulbs Responsibly
As per all electronic devices, please discard the light bulb according to your local
regulations. Please remove the batteries before discarding the remote, the used
batteries should be dealt with according to your local regulations.

8. Technical Details

Item No.	Picture	Voltage (V)	Frequency (Hz)	Power (Rated W)	Lumens (Lm)	Lumens per Watt (Lm/W)	Colour temperature (K)	Lifespan (Hrs)	PF (cosΦ)	Current (mA)	Max diameter (mm)	Max length (mm)	Lamp base
LDL821110		90-260V	50-60	7.5W	560	75	3000-6500	50000	0.65	35-65	60	120	B22
LDL807848													E27

P7

Instruction Manual

LIMITLESS LED

Smart LED Bulb
with 2.4Ghz Wireless Remote Control

www.limitlessled.com