

Installation/Operation Manual

Human Detection Sensor Kit

Make sure that you read the Safety Precautions section before inspection or use of the product. The Safety Precautions section provides information on ensuring safety and preventing property damages.

4-WAY CEILING CASSETTE

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Original instruction



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Safety Precautions

Make sure that you read Safety Precautions before using the product.

The Safety Precautions section provides information on ensuring safety of users and preventing property damages.

After reading this user manual, keep it at a place where it can be easily accessed.

Warning - If these instructions are not followed, serious injuries or even death may occur.

Caution - If these instructions are not followed, injuries or property damages may occur.

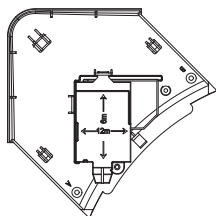
Note

- ▶ Since the installation work requires specialized techniques, it must only be carried out by the service center or the installation center approved by LG Electronics. (If installation is carried out by a person without an installation license, the person is responsible for all problems related to the installation, and, in such cases, LG Electronics shall provide no free maintenance or repair service.)
- ▶ After completing the installation, be sure to show the customer that the product functions normally and has no problem.
- ▶ Before installation, make sure that you read the installation manual.

Warning - Make sure that you turn off the main power before installation.

Caution - This kit can only be installed in designated products. If the kit is not installed according to this manual, it may not be assembled properly.

Components of Human Detection Sensor Kit



Human Detection
Sensor Kit



User Manual



Wired Remote
Control
(separately sold)

Model Name	PREMTB100
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Installation of Human Detection Sensor Kit

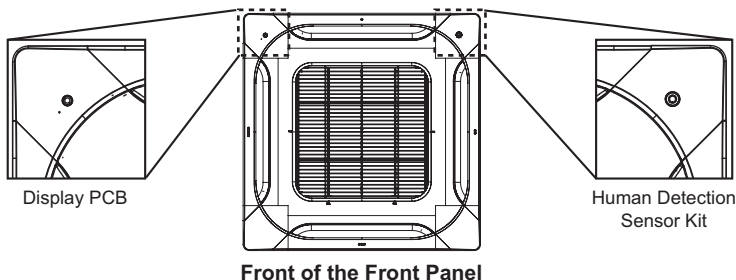
! Caution

- Make sure that you install the Human Detection Sensor kit before installing the front panel.
 - If the front panel has already been installed, you cannot install the Human Detection Sensor kit. In such a case, separate the front panel, install the kit, and re-install the front panel.
 - You can operate the kit using remote controls described in the Components of Human Detection Sensor Kit section (page 3).
 - A protective film is attached on the exterior of the Human Detection Sensor kit. Make sure that you remove the protective film after installation is completed.

1. Check the mounting direction of the Human Detection Sensor kit.

(Install it on the right corner of the front panel when seen from the display PCB.)

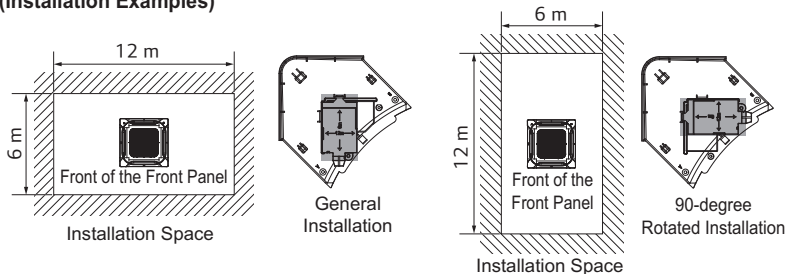
There is no available installation location other than this, and installing the product in another location may cause product malfunction or damage.



1-1. Determine the installation direction of the sensor kit based on the conditions of the site where the air conditioner is to be installed.

- When the horizontal width is greater: General installation
- When the vertical width is greater: 90-degree rotated installation

(Installation Examples)



The horizontal width is greater than the vertical width.

The vertical width is greater than the horizontal width.

1-2. The default factory setting is for general installation, and you can rotate the PCB 90 degrees depending on the site conditions.

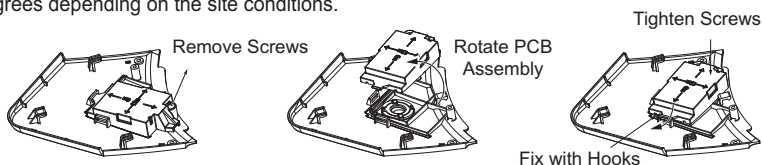


Figure. 90-degree Rotated Installation

1-3. After installing the Human Detection Sensor kit, set the installation direction of the kit (general, 90-degree rotated). Refer to the remote control manual for details on how to set the installation direction.

2. Attach the kit to the product.

Caution

When installing the sensor kit, make sure that the insulating material is not torn or fall off while detaching or attaching the motor cover. (If the finish of the insulating material is defective, air may leak out.)

2-1. Detach the corner cover at the installation location of the kit.

2-2. To mount the kit, insert the connecting wire into the space that appears when the corner cover is detached.

2-3. Detach the motor cover by loosening two screws.

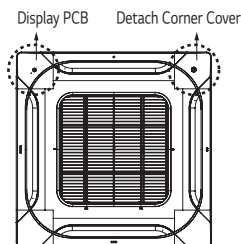


Figure. 2-1

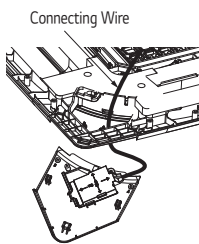


Figure. 2-2

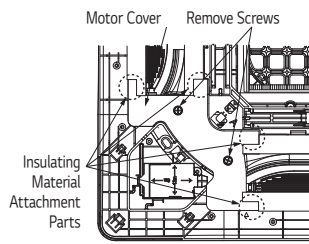


Figure. 2-3

2-4. Organize the connecting wire as shown in the figure, and attach the motor cover. (Secure a margin of approximately 6 - 10 cm for the connecting wire to make it easy to detach the Human Detection Sensor kit.)

2-5. Align the connecting wire to the wire guide and fix it with the hooks.

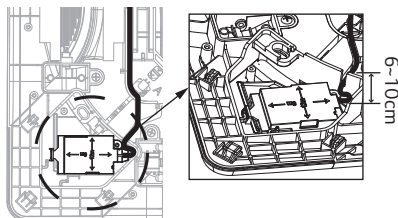


Figure. 2-4

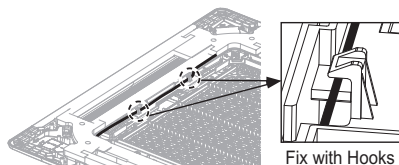


Figure. 2-5

2-6. Detach the motor cover by loosening two screws.

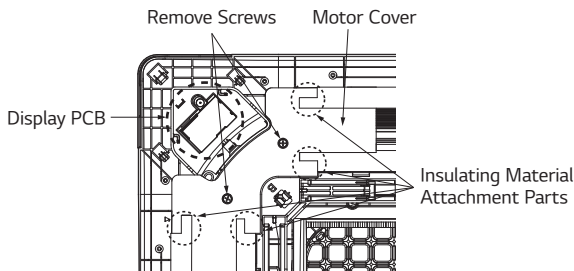


Figure. 2-6

2-7. Place the connecting wire inside the guide and fix it with the hooks, then attach the motor cover.

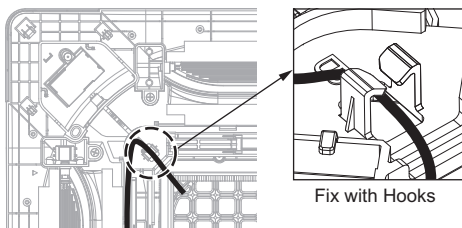


Figure. 2-7

3. Use the front panel fixing bolts to fasten the panel and the main body.
 - Refer to the user manual for the 4-Way front panel.
 - After fixing the panel, remove the protective film from the exterior of the Human Detection Sensor kit.
4. Open the control box cover of the main body.

5. Refer to the wiring diagram attached to the control box to connect all the connecting wires on the panel to the connector inside PCB.

5-1. Connect the connecting wires of the kit to the yellow connector (CN_BLDC2) on the PCB as shown in the figure.



6. Fasten the control box cover and attach the air intake grille.
7. After completing the installation, check for normal operation by performing the following steps:
 - 7-1. Set the installation direction of the sensor kit in the Installer Settings of the remote control.
 - 7-2. After starting the operation, select 'Body Sensing Operation' in the 'Function Settings'.
 - 7-3. Set 'Body Sensing Wind Direction' to 'Indirect Wind'.
 - 7-4. Check if the vane in the direction of the movement operates properly.

Functions of Human Detection Sensor

- The Human Detection Sensor detects movement within the detection range.
- Detection Ranges
Installation height 2.7 m: 12 m X 6 m
Installation height 3.2 m: 15 m X 8 m

Power Saving Operation Using Human Detection Sensor

- On/Off Power Saving: When no movement is detected, the operation is turned off to save power.
- Temperature Power Saving: When no movement is detected, the power saving operation is performed to reach the desired temperature.
- ✱ The time for detecting the absence of a person can be set to 5, 10, 15, 30, 60 or 90 minutes.
- ✱ The effect of the Power Saving operation may differ depending on the model, capacity, or surrounding environment.

Human Detection Wind Direction

- Direct Wind: When a movement is detected, the wind is automatically controlled to reach the location of the movement.
- Indirect Wind: When a movement is detected, the wind is automatically controlled not to reach the location of the movement.

Using the Human Detection Sensor Kit

Precautions

- Do not conceal the sensor or touch it with a hand.
- When the sensor has dirt or other foreign substance, wipe it with a soft cloth. (There is a risk of product malfunction if water enters the product. Do not immerse the product under water. Make sure that you wipe it with a dry cloth.)
- The Human Detection Sensor detects the presence of human body based on movement.
- When there is no movement, the sensor regards that there is no human body around.
- When an object moves away from the sensor, the sensor detects a big movement and regards it as a human movement.
- When there are many moving objects, the wind direction adjustment function may be delayed.
- Setting the detection result transmission period (5 seconds, 30 seconds (Default), 1 minute, 3 minutes) to 30 seconds (Default) or longer is recommended. When setting it to 5 seconds, the probability of false detection can be increased as it judges by motion.
- A change in the indoor lighting condition or the sunlight shown through a window can be sensed as a body movement.
- If you stop the operation using a remote control while On/Off Power Saving is on, the product maintains the stopped state even when a movement is detected.
- If a movement is detected while On/Off Power Saving is on, the air conditioner may not be turned off.
- The turning-off of the air conditioner may be delayed depending on the indoor conditions while On/Off Power Saving is on.

- The Human Detection Sensor does not store any videos, so it does not violate the privacy of the user. LG Electronics is not responsible for any consequences that may arise from arbitrary use of the product for purposes other than originally intended.
- When the sensor is broken, the Direct Wind, Indirect Wind, On/Off Power Saving, and Temperature Power Saving functions are automatically disabled.

Maintenance

- If the product does not operate even after all necessary settings are completed, please contact the installer or the service center.

Please contact the service center if you wish to replace the front panel or receive a service.

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Product Type	Air-conditioner
Model Name/Range	Camera Module for Air conditioner

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alsa-lib 1.0.23, uclibc 0.9.32	LGPL 2.0/2.1

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Version 2, June 1991

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signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

LGPL 2.0/2.1

Version 2.1, February 1999

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission

to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user

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