

MELRemo

Smartphone application

(for users)

Applicable to PAR-CT0*MA series, PAC-SF0*CR, and PAR-4*MA series remote controllers

Instruction Book for iOS and Android™



- MELRemo (hereafter referred to as the Application) is an application software that can operate the remote controllers for MITSUBISHI ELECTRIC air conditioning systems on a smartphone via Bluetooth communication.
- The costs associated with downloading and updating the Application, and costs of telecommunication to use the Application (including the additional costs of telecommunication for reconfiguring the settings when the Application is not properly updated or operated) are the responsibility of the user.

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1. Safety precautions

- Thoroughly read the following safety precautions before using the remote controller.
- Observe these precautions carefully to ensure safety.

 WARNING	Indicates a risk of death or serious injury.
 CAUTION	Indicates a risk of serious injury or structural damage.

- After reading this manual, pass it on to the end user to retain for future reference.
- Keep this manual for future reference and refer to it as necessary. This manual should be made available to those who repair or relocate the remote controller. Make sure that the manual is passed on to any future users.

General precautions

WARNING

- Do not use the remote controller where pacemaker users may be around. If used, turn off its Bluetooth.
 - Bluetooth may cause pacemakers to malfunction and leads to an accident.
- Do not use the remote controller near electrical medical devices. If used, turn off its Bluetooth.
 - Bluetooth may cause these devices to malfunction and leads to an accident.
- Do not use the remote controller near automatic doors, fire alarms, or other automatically controlled devices. If used, turn off its Bluetooth.
 - Bluetooth may cause these devices to malfunction and leads to an accident.

CAUTION

- The remote controller is permitted for use only in the country where it was purchased.
- The remote controller uses signals in the 2.4 GHz band.
 - Signals in the 2.4 GHz band are used by medical devices, other similar devices, and non-licensed amateur radio stations (hereafter referred to as other radio stations).
 1. Before using the remote controller, make sure there are no other radio stations in the vicinity.
 2. If a radio interference occurs between the remote controller and other radio stations, move the remote controller or stop using the remote controller (turn off Bluetooth).
 3. If problems with radio interference occur, consult the dealer from which the remote controller was purchased.
- Keep an appropriate distance between the remote controller and radio-emitting devices, such as cordless phones, microwave ovens, and wireless LANs, to prevent Bluetooth interference from these devices that can affect normal operation and performance of the remote controller.
- The following actions may be punishable by law.
 - Disassembling or alteration of the remote controller
 - Removal of certification labels
- The maximum line-of-sight distance of the remote controller is 10 meters. This distance will be shorter when obstacles or people are in the path of radio waves or radio interference from appliances (e.g., microwave ovens) exists.

Precautions for using smartphone application

- When operating an air conditioner from a remote controller located outside the visibility of the air conditioner, make sure that the operation of the air conditioner will not negatively affect its surroundings or the occupants beforehand.
- When occupants include children, elderly people, people with ailments, or people with disabilities, make sure the remote controller is used in the presence of a capable, supervising adult.
- When one or more people are in a room with an air conditioner, let them know beforehand that the air conditioner is going to be operated from a remote controller located outside the visibility of the air conditioner.
- Children must be supervised to stay away from the remote controller.
- Poor radio-wave conditions due to an existence of obstacles or radio-emitting devices, such as a microwave oven, in the vicinity of the remote controller can lead to a non-response error. Check that the operation content is properly reflected to the remote controller after each operation.
- The maximum line-of-sight distance of the remote controller is 10 meters. Obstacles in the path of radio waves can shorten this distance. If a problem occurs, remove the obstacles or shorten the distance between the remote controller and the connected smartphone.
- When multiple Bluetooth devices are operating near the remote controller or the smartphone, they may cause interference on the communication between the remote controller and the smartphone.
- Some types of smartphone may be slow in responding to the communication from the remote controller.
- The Application is intended for general users. Some functions available on MELRemoPro for administrative users such as building owners and maintenance users are not available on the Application.

2. Basic operations

- Using the Application, air conditioning systems can be operated.
- The following settings can be configured with the Application:
ON/OFF, preset temperature, operation mode, fan speed, vane angle, ventilation, louver On/Off, louver angle, 3D i-See sensor, and HOLD settings

Note: HOLD setting is displayed only when PAR-CT0*MAU is connected.

Note: The louver angle and 3D i-See sensor settings are displayed only when PAR-4*MA is connected.

Note: The display language depends on the language setting of the smartphone.

Note: The remote controller cannot be operated or set when connected to an OA processing unit.

Note: The setting cannot be changed for the function whose operation is prohibited or locked from the centralized controller or the remote controller.

Note: The operation may not be accepted when the air conditioning system is operated from multiple Applications at the same time.

2-1. Remote controller selection

- The window operation procedure is same for iOS and Android. Explanations given below uses the windows displayed on the iOS's screen.

(1) Start up the Application.

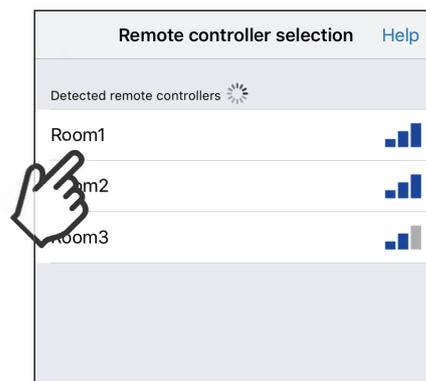
A remote controller selection screen will appear. The remote controllers that have been detected will appear in the ascending order of radio field intensity.

Note: Enable the Bluetooth function on the smartphone.

Tap the remote controller to be connected. The LED on the selected remote controller will light up seven times.

Note: If the LED on the remote controller does not light up, check that the remote controller to be connected is properly selected. If the wrong remote controller is selected, tap a different remote controller on the remote controller selection screen.

Note: If the remote controller to be connected is not displayed on the detected remote controller list, stop and then restart the Application.



(2) Enter the password*1, and then tap the [Send] button.

When [] or [] → [LED] is tapped, the LED on the selected remote controller will light up seven times.

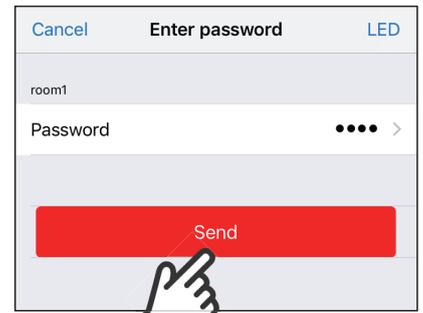
Check if it is the selected remote controller.

Note: The selected remote controller can be connected only when the Status display or Main display is displayed on the selected remote controller. (Refer to the screen images below for the Status display and Main display.)

*The Status display is displayed only when PAR-CT0*MA series or PAC-SF0*CR is connected.

*1 The password can be displayed as follows.

- PAR-CT0*MA series and PAC-SF0*CR
→ Tap [] at the top right corner of the Main display on the remote controller to display the password.
- PAR-4*MA series
→ Press the [F1] and [F2] buttons simultaneously when ON/OFF is set to OFF on the Main display. The password → time → password will blink at one second intervals.



Status display



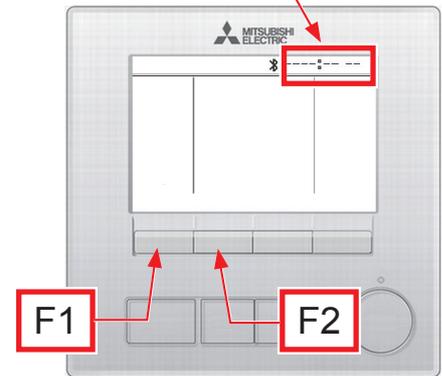
- PAR-CT0*MA series
- PAC-SF0*CR

Main display

When the preset temperature is displayed



Password will be displayed here.



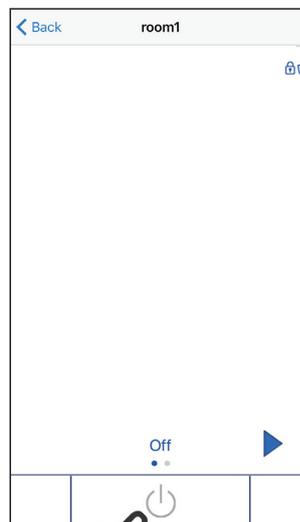
- PAR-4*MA series

2-2. Power ON/OFF

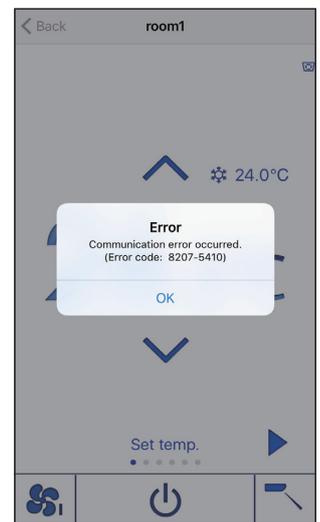
- (1) Tap the [] button to turn on or off the air conditioner. Tap [Back] to return to the remote controller selection screen.

Note: If an error code (4-digit or 8-digit) appears on the screen, check the error code and troubleshoot accordingly, referring to the “Error code and troubleshooting table” on page 15.

ON/OFF operation



Error display

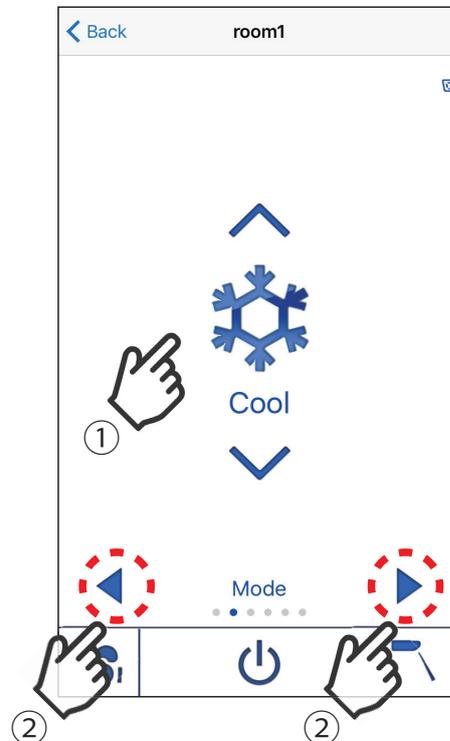


2-3. Preset temperature, operation mode, fan speed, vane angle, ventilation, louver On/Off, louver angle, 3D i-See sensor, and HOLD settings

- The available functions vary with the connected air conditioner models. Only the supported functions are displayed. This section explains all functions.

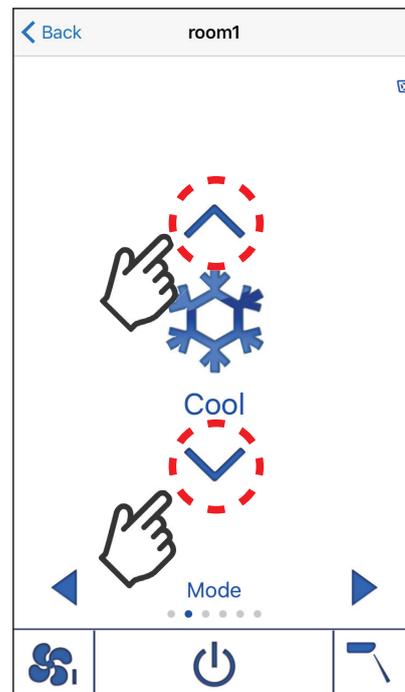
[1] How to switch the displays

- (1) Swipe left or right (①) or tap the [◀] or [▶] button (②) to switch the following setting items: preset temperature, operation mode, fan speed, vane angle, ventilation, louver On/Off, louver angle, and 3D i-See sensor.



[2] How to change the setting

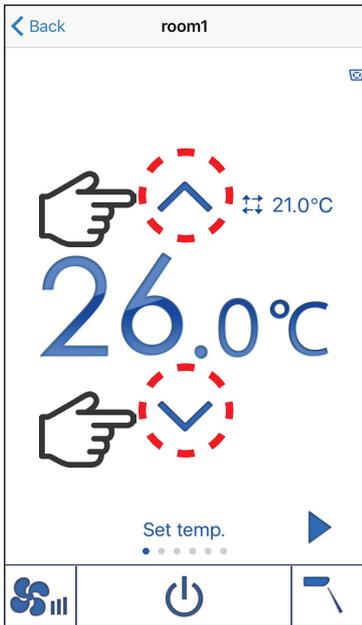
- (1) Tap the [▲] or [▼] button to change the setting.



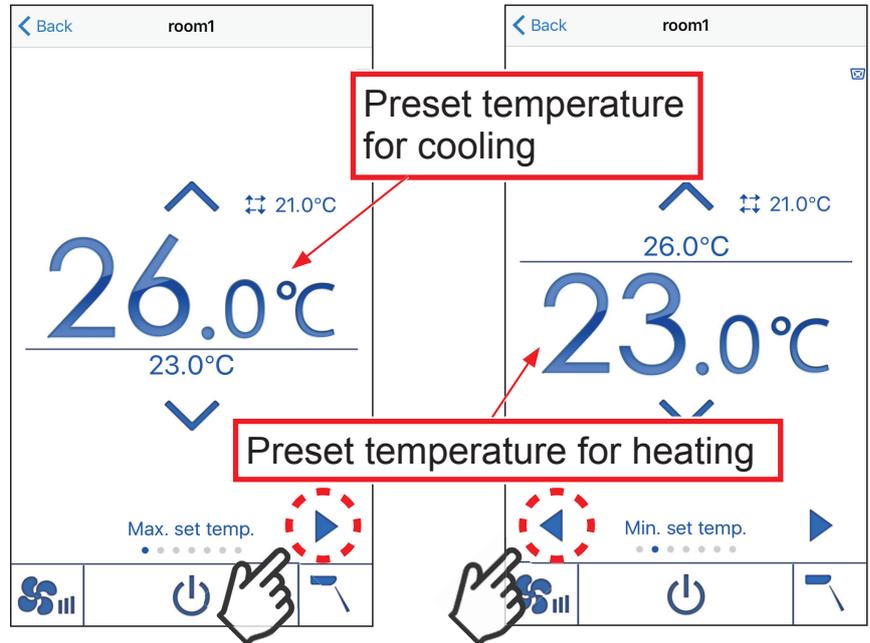
2-3-1. Preset temperature setting

- The preset temperature can be changed when the operation mode is Cool, Dry, Heat, or Auto (dual set point mode or Setback mode).

**Cool, Dry, Heat,
or Auto mode**



Auto (dual set point or Setback) mode

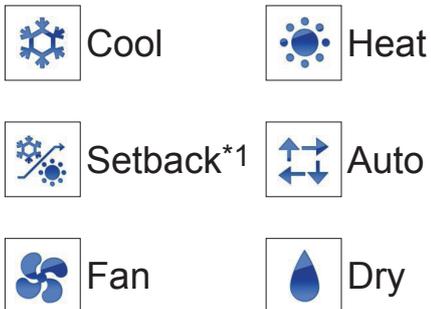


Screen to change the preset
temperature for cooling

Screen to change the preset
temperature for heating

2-3-2. Operation mode setting

- Operation mode can be changed.

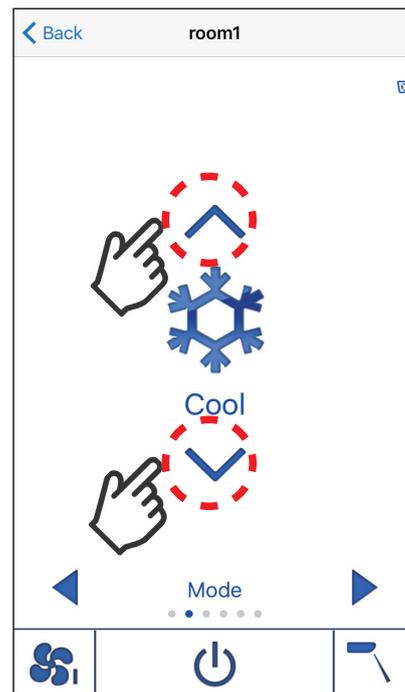


*1 Setback mode can be set only when PAR-CT0*MAU is connected.

Note: The mode icon blinks when other air conditioners in the same refrigerant system (connected to the same outdoor unit) are already operating in a different mode. In this case, the rest of the air conditioners in the same group can only be operated in the same mode.

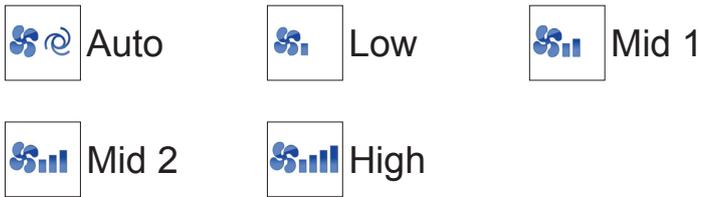
Note: Until the supply air reaches a certain temperature, the fan speed is gradually adjusted to the specified speed according to the temperature of the supply air. "Standby" will be displayed until the fan speed reaches the specified speed.

Note: Frost forms on the outdoor unit at low outside temperature and high humidity. "Defrost" will be displayed during defrost operation.

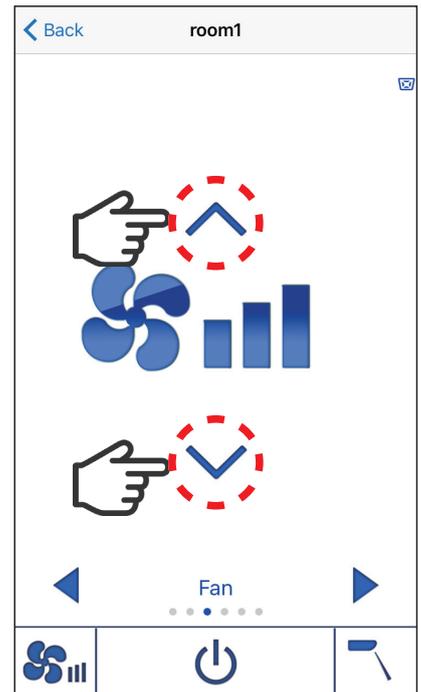


2-3-3. Fan speed setting

- Fan speed can be set.

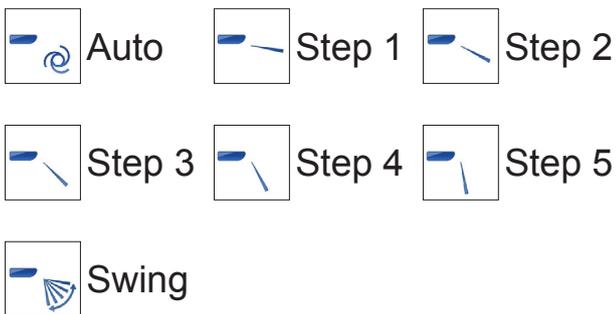


Note: The available fan speeds vary with the connected air conditioner models.



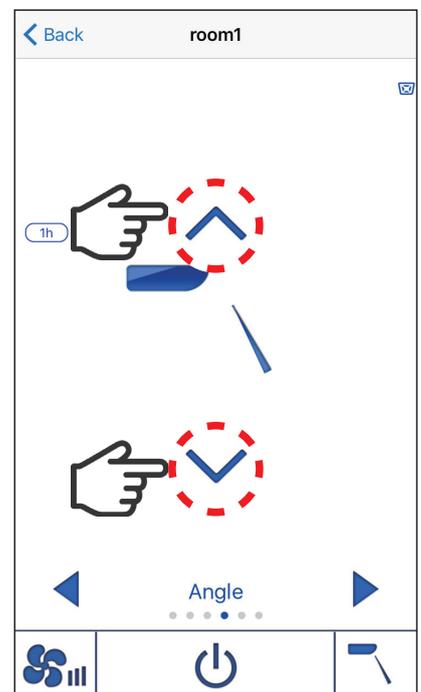
2-3-4. Vane angle setting

- Vane angle can be set.



Note: The icon  may appear when the vane angle is set to Step 2, 3, 4, or 5 during cooling or dry operation. The icon will go off in an hour, and the vane angle setting will automatically change to Step 1.

Note: The available vane angles vary with the connected air conditioner models.



2-3-5. Ventilation setting

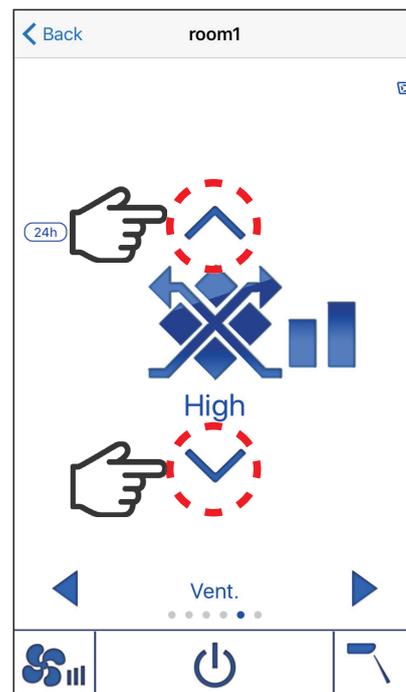
- Ventilation can be set.



Note: The icon  will appear when 24-hour ventilation is set.

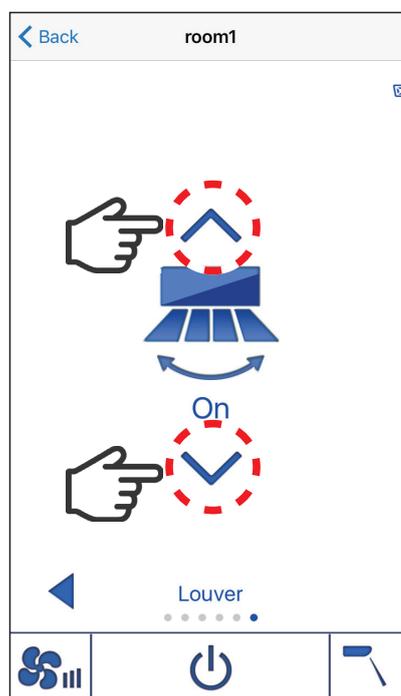
Note: The fan on some models of indoor units may be interlocked with certain models of ventilation units.

Note: The available ventilation settings vary with the connected air conditioner models.



2-3-6. Louver On/Off setting

- Louver can be turned on or off.

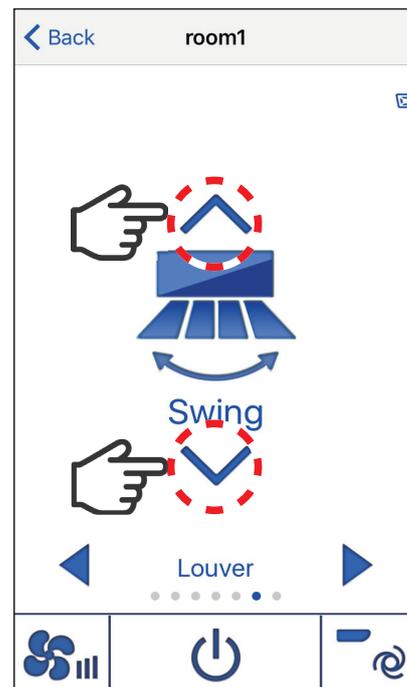


2-3-7. Louver angle setting

- Louver angle can be set.



Note: The louver angle can be set only when PAR-4*MA is connected.



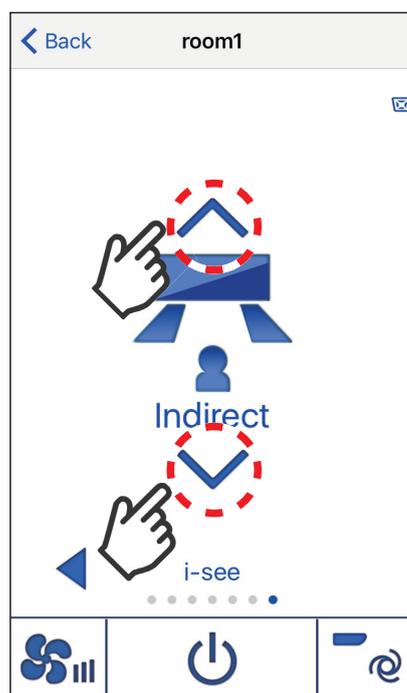
2-3-8. 3D i-See sensor setting

- Air direction can be set with the 3D i-See sensor.



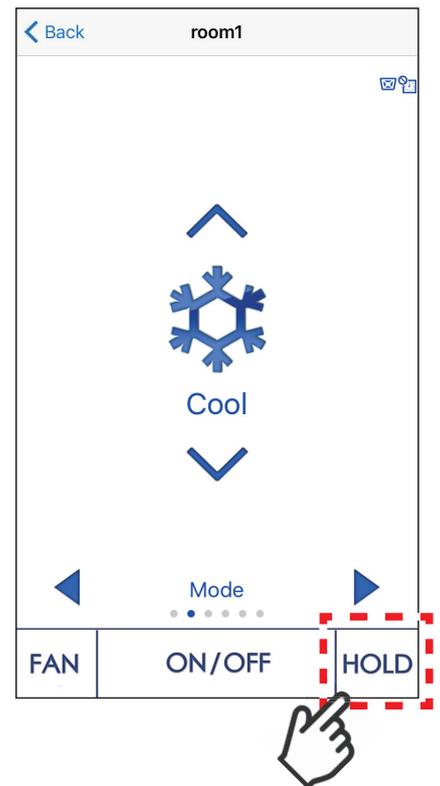
Note: When “Indirect,” “Direct,” or “Area” is selected, the vane angle and louver angle settings become “Auto.”

Note: The 3D i-See sensor setting is displayed only when PAR-4*MA is connected.



2-3-9. HOLD setting

- Tap the HOLD button to enable/disable the HOLD function. If the HOLD function is enabled, the following functions will be prohibited.
 - ON/OFF timer
 - Auto-Off timer
 - Weekly timer
 - Automatic return to the preset temperature
-  will appear while the HOLD function is enabled.
Note: HOLD setting is available only when PAR-CT0*MAU is connected.



2-3-10. Temperature unit (°F/°C) setting

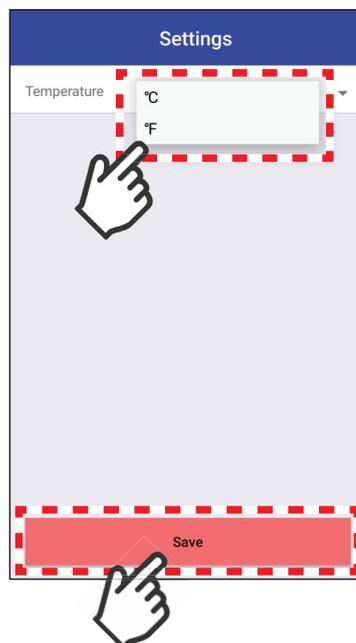
- The unit of the temperature displayed on the Application can be selected from Centigrade and Fahrenheit.

For iOS

- Use the Language setting of iPhone to select the temperature unit.

For Android

- Tap [] → [Settings] at the top right of the screen as shown below to select the temperature unit.



3. Specifications

3-1. Applicable remote controllers

Model name
PAC-SF01CR (-RN)
PAR-CT01MAA-PB/SB
PAR-CT01MAR-PB/SB
PAR-CT01MAC-PB
PAR-CT01MAU-SB
PAR-40MA
PAR-40MAAC

3-2. Applicable smartphones and application download

Applicable smartphones

- iOS 10.0 or later
- Android 5.0 or later

*Android on Galaxy S8 was used for operation check. The latest information on the smartphones used for the operation check is available on the download site.

Download site

The Application is available from the application distribution services shown below. Search for and download the Application using a keyword "MELRemo".

- iOS: App Store™
- Android: Google Play

Note: The Application is for free, but download of the Application involves a communication fee.

Note: For the availability of the latest update, access the download site.

4. Q&A

[1] The remote controller to be connected is not displayed on the remote controller selection screen.

- Check that the Bluetooth is ON on the remote controller and the smartphone that runs the Application, and then restart the Application.

[2] A BLE (Bluetooth Low Energy) equipment error is displayed on the remote controller.

- When a BLE equipment error occurs, 4-digit error code (■ BLE equipment error code) will appear at the top left corner of the Main display of the remote controller. Check the error code, and take the following actions.

■ BLE equipment error code

Error code	Error definitions	Action to take
6860 to 6866	BLE equipment error	Consult the air conditioner manager.
6871	BLE connection error	The smartphone does not support Bluetooth connection with the connected remote controller. Use a different smartphone.

[3] An error code is displayed on the screen of the Application.

- When 4-digit or 8-digit error code appears on the screen while the Application is being operated, check the error code and troubleshoot accordingly, referring to the table below.

■ Error code and troubleshooting table

Error code	Error definitions	Error contents	Action to take
8002 to 8006, 8101, 8102, 8201, 8202, 8204 to 8209, 8301	Bluetooth communication error	An error occurred during the Bluetooth communication.	Check the Bluetooth setting is [ON] on the remote controller and the smartphone that runs the Application, and send the data again. If the error persists, restart the Application and connect the Application and the remote controller again.
8203	Password error	Password is wrong.	Enter the correct password.
8207–5410	Screen display error	The Main display or Status display is not displayed on the remote controller when the Application is connecting to the remote controller.	Display the Main display or Status display on the remote controller.

Error code	Error definitions	Error contents	Action to take
8207-7300	Test run error	The remote controller is operated from the Application while the air conditioning system is running a test run.	No operation from the Application is accepted during the test run. Operate the remote controller after the test run is completed.
8207-7400	Function selection error	The remote controller is operated from the Application during the function selection of the air conditioning system.	Wait until the operations by the other users are finished.
8207-7800	Remote controller error	The remote controller is operated from the Application when an error is occurring on the remote controller.	Check the error contents on the remote controller.
8207-7900	Operation error	The remote controller is operated from the Application while the air conditioning system is being started up.	Wait for the system to start up, and then connect the Application and the remote controller again.
8302-3400	Send/Receive error	Temperature setting is made from the Application while the fan mode is set on the remote controller.	Wait a moment.
8302-3500	ON/OFF error	The target air conditioner is operated while it is stopped.	Switch the ON/OFF status of the target air conditioner from OFF to ON.
8302-3900	Applicable screen error	Temperature setting is made from the Application when the operation modes on the remote controller and the Application are different.	Wait a moment.
8302-5500 -5510 -5520 -5530 -5540 -5550 -5560 -5570 -5600 -5610	Remote controller restriction error	The setting is not configured because its operation is restricted in the initial settings for the remote controller.	Disable the restriction setting for the remote controller.
8301, 8303 to 8305	System information acquisition error	The system information failed to be acquired.	Connect the Application and the remote controller again.

Error code	Error definitions	Error contents	Action to take
8405	Send error	An error occurred when the settings data was sent from the Application.	Check for proper remote controller screen display and the password, then send the settings data again.
8406	Operation request error	The operation performed on the operation screen has failed.	Connect the remote controller again.
8411	Non-applicable model error	Connection has failed.	Check the connected remote controller model again. OA processing unit cannot be used.

5. Trademarks

- iPhone, iPad, and iPod touch are registered trademarks of Apple Inc. in the U.S. and other countries.
- The trademark iOS is used under the license of Cisco in the U.S and other countries.
- App Store™ is the collective name of the service that provides download services of application software for use on iPhones, iPads, and iPod touches.
- Android and Google Play are trademarks of Google LLC.
- Galaxy is a trademark or registered trademark of Samsung Electronics Co., Ltd.
- The word Bluetooth® and its logo mark are trademarks of Bluetooth SIG, Inc., and Mitsubishi Electric Corporation is granted the right to use these trademarks. Other trademarks and trade names are properties of their respective companies.



mitsubishi electric corporation

HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN
MANUFACTURER: MITSUBISHI ELECTRIC CORPORATION Air-conditioning & Refrigeration Systems Works
5-66, Tebira 6 Chome, Wakayama-city, 640-8686, Japan

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