

# WIRED REMOTE CONTROLLER

(Optional parts)

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**MODEL NAME :**

**UTY-RVN\*M**

**UTY-RVNYN**

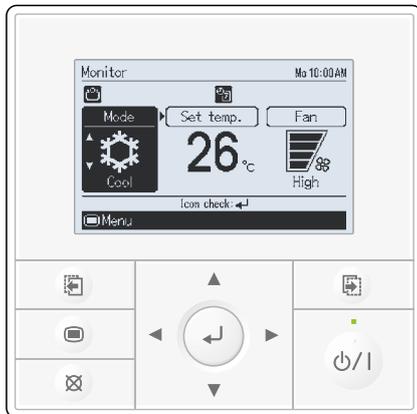
For Zone Controller functions using this remote controller,  
refer to "ZONE CONTROL SYSTEM (DTR\_OP006E)".

# 1. FEATURES

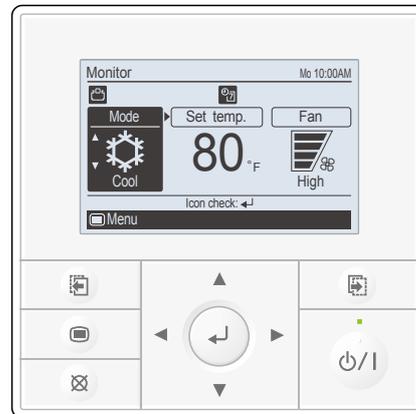
## ■ MODEL

### UTY-RVN\*M, UTY-RVNYN

- Large and full-dot liquid crystal screen
- Screen with backlight can be seen even in the dark
- Wide and large keys easy to press, user-intuitive arrow key



Temperature unit [°C]



Temperature unit [°F]

## ■ FEATURES

### ● Group & Individual Control

- Up to 16 indoor units can be simultaneously controlled.
- Controller is two installation possibility in one indoor unit.  
And controller up to two installation possibility per group control.

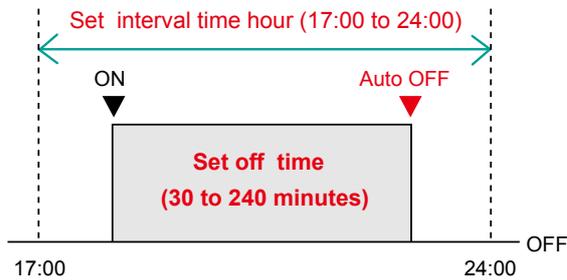
### ● User-friendly operation

- Large backlight LED screen
- Large easy-to-see operation panel
- Multiple Language Supporting  
(English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)

# MAIN FUNCTIONS

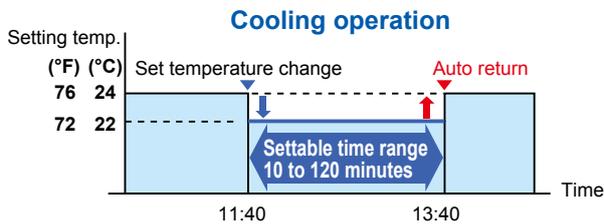
## ● Auto off timer

Ex) At interval time hour (17:00 to 24:00) to prevent forgetting to turn off

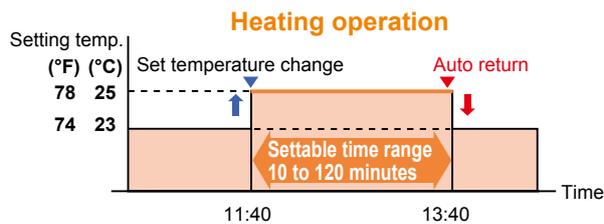


- The indoor unit automatically turns off after a set time has passed.
- The time interval for which auto off works can be set.

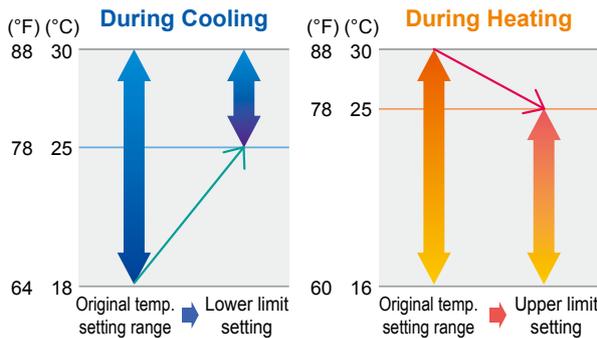
## ● Set temperature auto return



- The setting temperature automatically returns to the previous setting temperature.
- The time range in which the set temperature can be changed is 10 to 120 minutes.



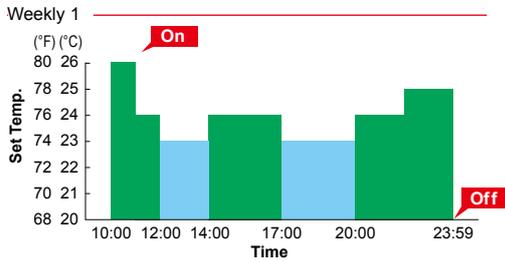
## ● Set temperature upper and lower limit setting



- The set temperature range can be set for each operation mode. (Cooling / Heating / Auto)

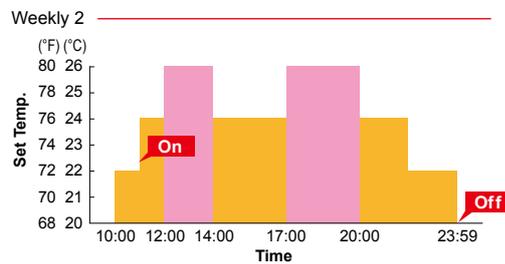
## ● Weekly timer function

- Not only time setting On/Off, but also setting of the operation mode and set temperature can be set by Weekly timer function.  
Two types of setting: Weekly 1 and Weekly 2 for summer and winter are possible.



Setting menu in remote controller

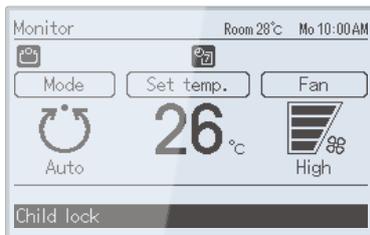
Weekly timer setting		Su 10:00AM						
Weekly 1		Su	Mo	Tu	We	Th	Fr	Sa
Day	1	10:00 AM	On	Cool	26°C			
Time	2	11:00 AM	On	Cool	24°C			
	3	12:00 AM	On	Cool	23°C			
End	4	2:00 PM	On	Cool	24°C			



Setting menu in remote controller

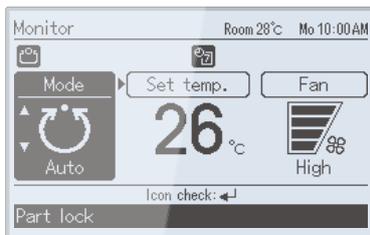
Weekly timer setting		Su 10:00AM						
Weekly 2		Su	Mo	Tu	We	Th	Fr	Sa
Day	1	10:00 AM	On	Heat	22°C			
Time	2	11:00 AM	On	Heat	24°C			
	3	12:00 AM	On	Heat	26°C			
End	4	2:00 PM	On	Heat	24°C			

## ● Child lock



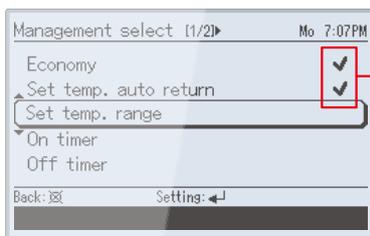
- This function locks all control.

## ● Part lock



- This function locks the setting of functions other than Mode, Set temp., Fan.

## ● Management (Pass word)



Functions with this mark are restricted. ←

- Unwanted functions can be restricted.
- Password is necessary to operate.

## FUNCTION LIST

It's shown below function of UTY-RVN\*M / UTY-RVNYN, UTY-RNN\*M / UTY-RNNYN and mixture use.  
When used in mixture, set the UTY-RVN\*M to Primary unit, and set the UTY-RNN\*M to Secondary unit.

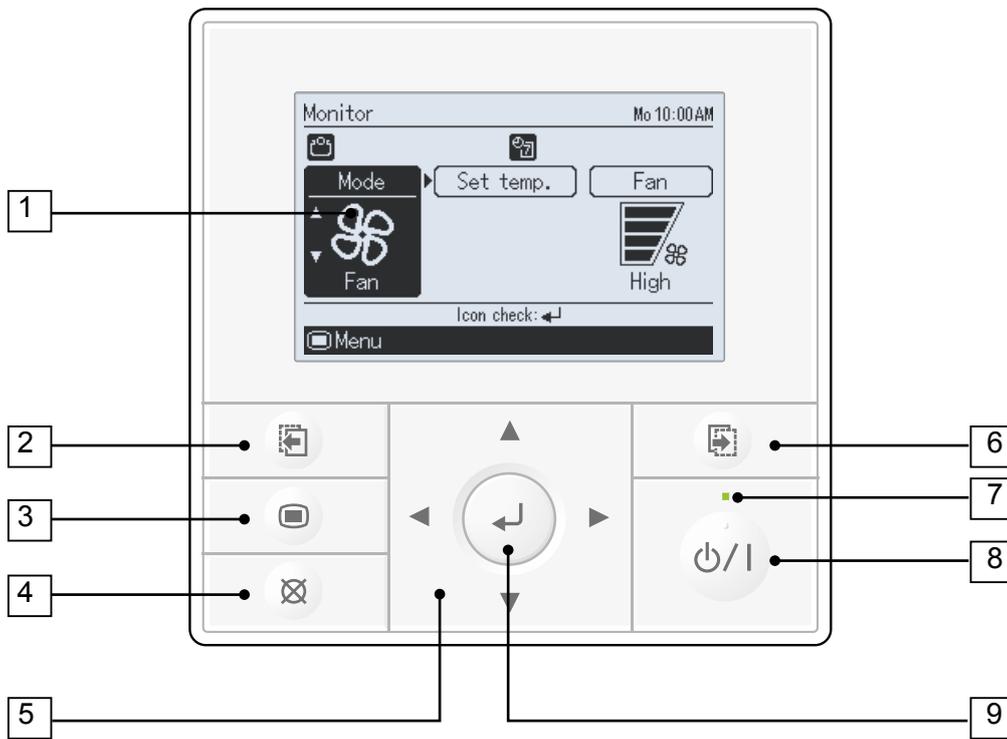
Item		UTY-RVN*M UTY-RVNYN	UTY-RNN*M UTY-RNNYN	Mixture use of UTY-RVN*M UTY-RVNYN and UTY-RNN*M UTY-RNNYN	
Air conditioning control function	On / Off	○	○	○	
	Operation mode setting	○	○	○	
	Fan speed setting	○	○	○	
	Set temp. setting	○	○	○	
	Set temp. range limitation	○	—	○	
	Test run	○	○	○	
	Vertical air flow direction setting	○	○	○	
	Horizontal air flow direction setting	○	○	○	
	Group setting *1	○	○	○	
	Economy setting	○	○	○	
	Set temp. auto return	○	—	○	
Display	Failure	○	○	○	
	Defrosting	○	○	○	
	Current time	○	○	○	
	Day of week	○	○	○	
	R.C. prohibition	○	○	○	
	Address display	○	—	○	
	Room temp	○	—	○	
	Multi language	○	—	○	
	Summer time	○	—	○	
	Filter sign	○	○	○	
	Backlight	○	—	○	
Timer	Schedule timer	Period	Week	Week	Week
		On/off, Temp, mode, time, per day	8×2	4 (On/off, time, per day)	8×2
	On/off timer	○	○	○	
	Auto off timer *2	○	—	○	
	Day off	○	○	○	
Min. unit of timer setting (Minutes) *3	10·30	30	10·30		
Control	Error history	○	○	○	
	Remote controller sensor control	○	○	○	
	Key lock	○	○	○	
	Operation mode exemption	○	—	Prohibited	
	Management (Pass word)	○	—	Prohibited	

\*1: Can be connected to the system forming a remote controller group.

\*2: Counting down of the Auto-off timer is valid only if the air conditioning operation has been started with the [On/Off button] of this remote controller.

\*3: On/off timer can be set in 30 minutes increments. Auto off timer and Set temp. auto return can be also set in 10 minutes increments.

## 2. FUNCTIONS



- |   |                                |   |                              |
|---|--------------------------------|---|------------------------------|
| 1 | Display panel (with backlight) | 6 | Screen switch button (Right) |
| 2 | Screen switch button (Left)    | 7 | Power indicator              |
| 3 | Menu button                    | 8 | On / Off button              |
| 4 | Cancel button                  | 9 | Enter button                 |
| 5 | Cursor button                  |   |                              |

### 3. SPECIFICATIONS

#### ■ SPECIFICATIONS

Dimensions [H x W x D]: mm (in.)	120 (4-23/32) x 120 (4-23/32) x 21.3 (27/32)
Weight: g (oz.)	220 (7.8)

#### ■ WIRING SPECIFICATIONS

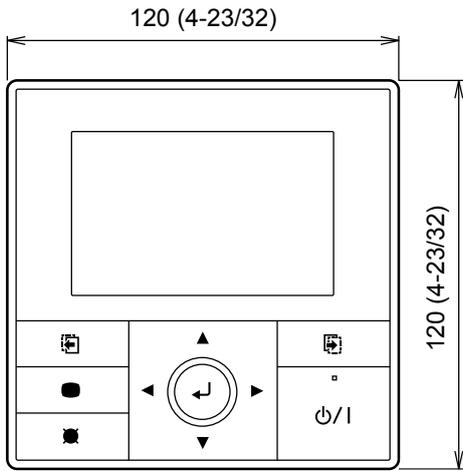
Use	Cable size	Wire type	Remarks	
Remote controller cable	0.33 mm <sup>2</sup> ( 22AWG )	Polar 3 core	UTY-RVN*M	Use sheathed PVC cable.
			UTY-RVNYN	Use shielded cable (field supplied) in accordance with the regional cable standard.

WIRED REMOTE  
CONTROLLER

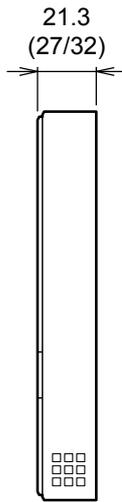
WIRED REMOTE  
CONTROLLER

# 4. DIMENSIONS

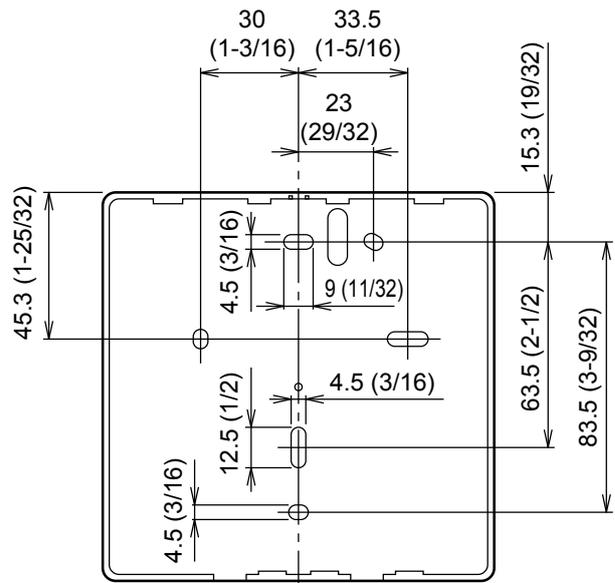
Unit : mm (in.)



Front View



Side View



Rear View

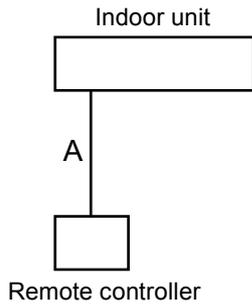
WIRED REMOTE  
CONTROLLER

WIRED REMOTE  
CONTROLLER

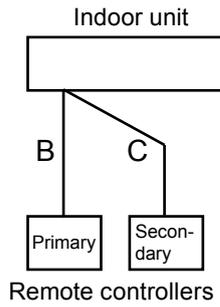
# 5. WIRING DESIGN

## SYSTEM DIAGRAM

### 1 remote controller



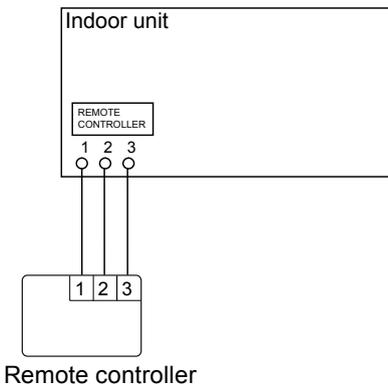
### 2 remote controllers



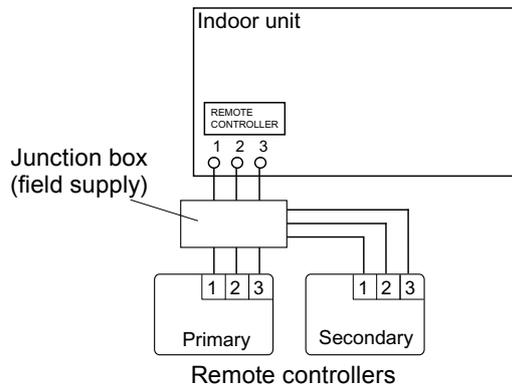
A , B , C : Remote controller cable.

## ELECTRICAL WIRING

### 1 remote controller



### 2 remote controllers

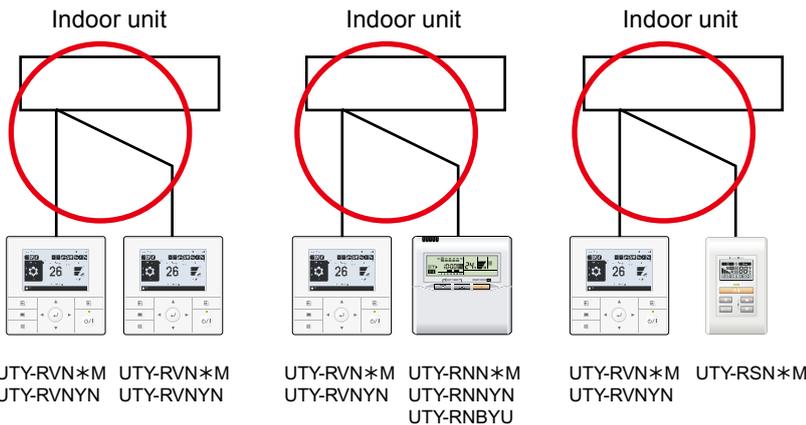


- 1. 12V (Red)
- 2. Signal (White)
- 3. COM (Black)

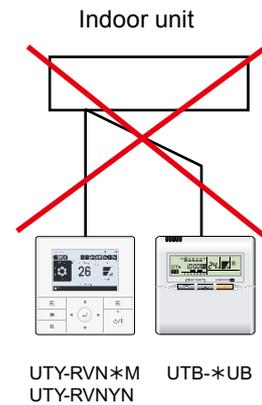
## CONTROLLER COMBINATION

As for the combined usage of the controller, refer to following figures.

### Good



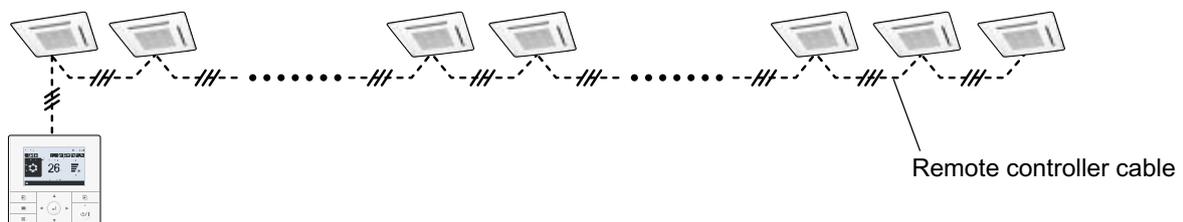
### Prohibited



## REMOTE CONTROLLER GROUP CONTROL

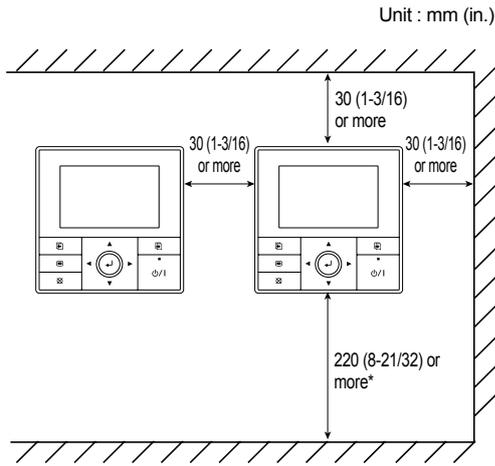
1 or 2-remote controllers can simultaneously control up to 16 indoor units.

### Connection examples



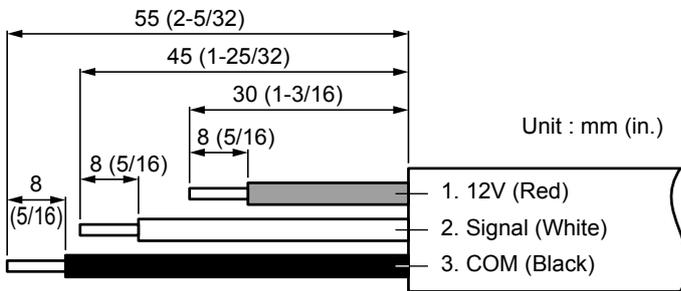
# 6. INSTALLATION

## 1) Installation space.



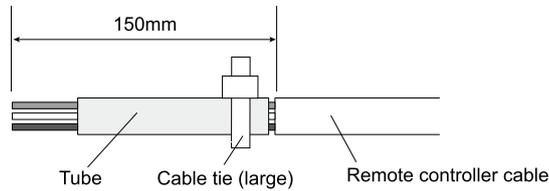
\* Please secure enough space where a flat screwdriver to take off a case can be inserted.

## 2) Processing of the remote controller cable.

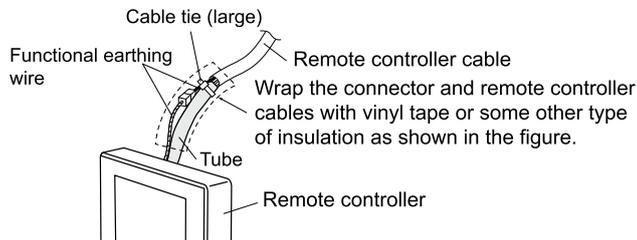


### For UTY-RVNYN

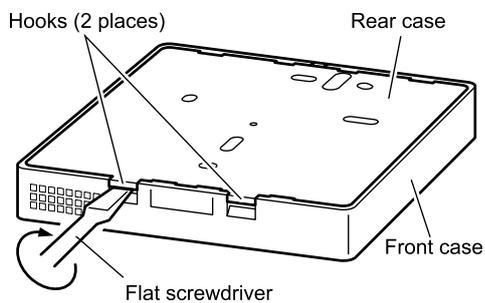
- Fix the near end of the Tube with the cable tie (large) firmly.  
Do not fix the functional earthing wire with the cable tie (large).



- Connect the functional earthing wire of remote controller and the remote controller cable, and perform the insulation.



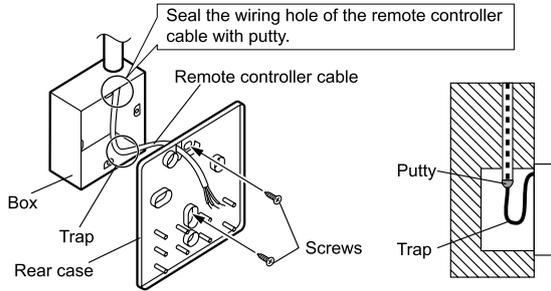
## 3) Insert the flat-blade screwdriver and remove the front case and rear case by twisting it slightly.



#### 4) Installing the remote controller

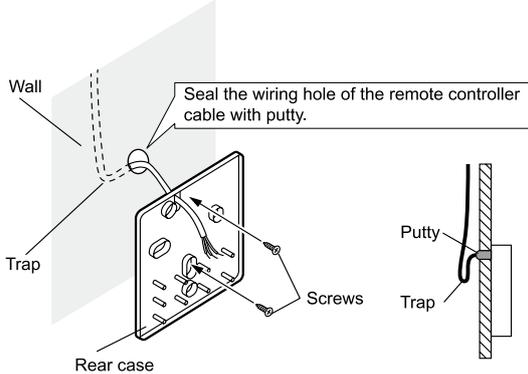
##### A. When attaching to switch box:

- (1) Seal the wiring hole of the remote controller cable.
- (2) Put a remote controller cable through the hole of the rear case.
- (3) Fix the rear case by securing it with attached screws (2 places).



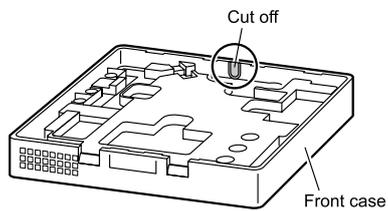
##### B. When attaching to the wall directly:

- (1) Seal the wiring hole of the remote controller cable.
- (2) Put a remote controller cable through the back hole of the rear case of the main body.
- (3) Fix the rear case by securing it with attached screws (2 places).

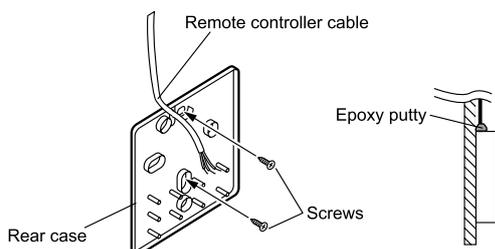


##### C. When routing the cable on-wall:

- (1) Cut off the cable guide of the front case with using a knife or a nipper.
- (2) Deburr the edge of the cable guide.

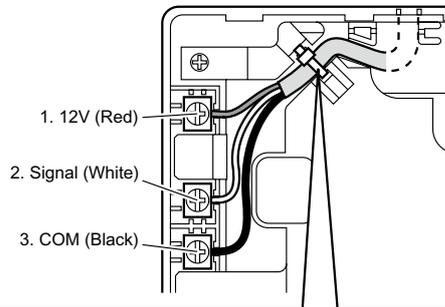


- (3) Fix the rear case by securing it with attached screws (2 places).

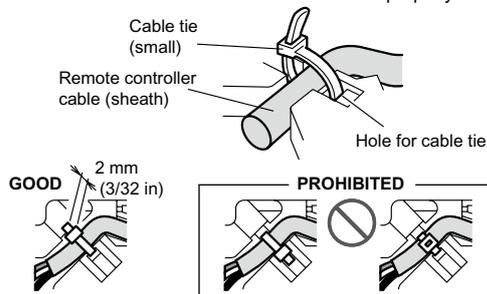


5) Connect the cable to the terminals on the front case. Fix the cable together with the sheath with the cable tie. Cut off the excess cable tie.

Tightening torque	
Terminal screw	0.8 to 1.2N • m (8 to 12 lbf • in)



To avoid an excessive tension or pressure to the terminal block, fix the remote controller cable with the cable tie properly.

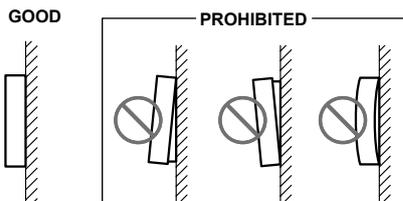
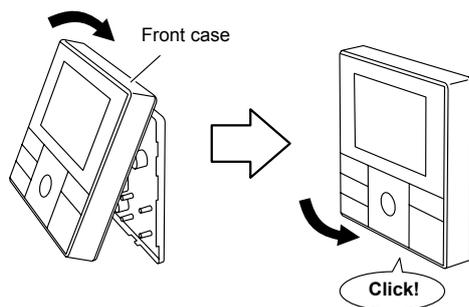


#### ⚠ CAUTION

- Be careful to avoid breaking the cable by over-tightening the cable tie.
- When connecting the remote controller cables, do not over-tighten the screws.

6) Attach the front case.

- Insert after adjusting upper part of front case.
- When insert the front case, do not pinch the cable.



#### ⚠ CAUTION

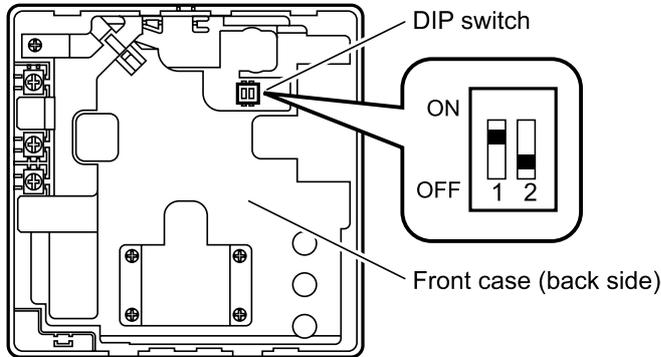
- Insert the upper case firmly. If improperly attached, it will cause the upper case to fall off.

# 7. FUNCTION SETTING

## 7-1. SWITCH SETTING

DIP Switch	SW1	Memory backup setting
	SW2	Dual remote controller setting

### ● Switch position



### ● DIP Switch setting

#### ● Memory backup setting

Set to ON to use batteries for the memory backup.

If batteries are not used, all of settings stored in memory will be deleted if there is a power failure.

(◆...Factory setting)

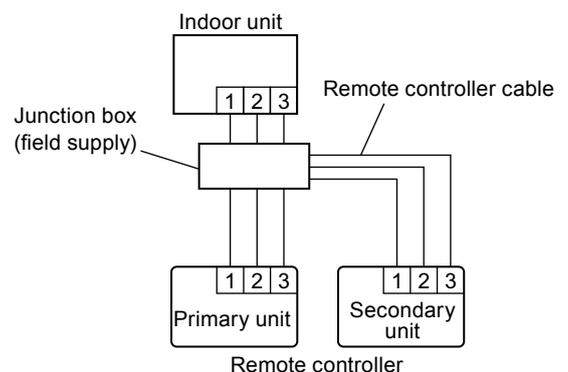
SW1	Memory backup
OFF	Invalidity
ON	Validity

#### ● Dual remote controller setting

Set the remote controller SW2 according to the following table.

(◆...Factory setting)

Number of remote controller	Primary unit	Secondary unit
	SW2	SW2
1 (Normal)	OFF	-
2 (Dual)	OFF	ON

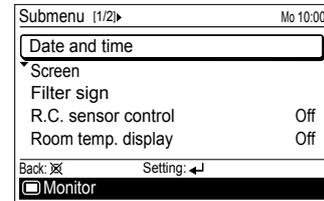


## 7-2. INDOOR UNIT (setting by controller)

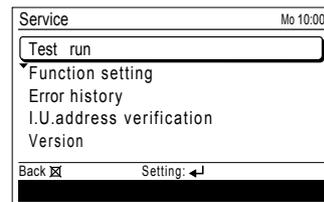
Function setting for indoor unit can be done by using the remote controller.

As for the "FUNCTION SETTING", refer to the DESIGN & TECHNICAL MANUAL for each product.

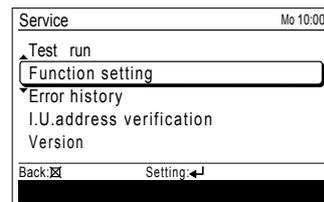
- 1) When [Menu button] is pressed twice while "Monitor" screen is displayed, it switches to the "Submenu" screen. If [Menu button] is pressed while the "Submenu" screen is displayed, the display returns to the "Monitor" screen.



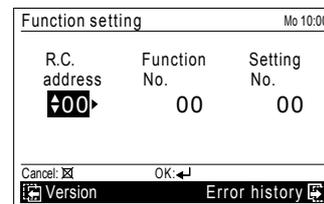
- 2) Press the [Screen switch button (Left)] and [Screen switch button (Right)] simultaneously for 5 seconds to switch to "Service" screen.



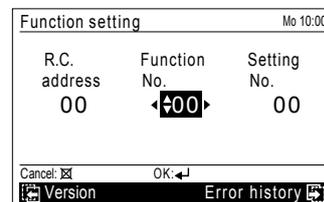
- 3) Select [Function setting] with pressing the [Cursor button (Up/Down)], and press the [Enter button].



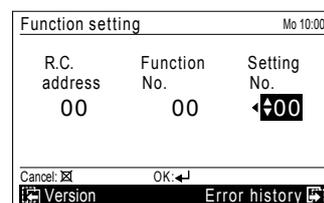
- 4) Select [R.C. address] of the target indoor unit with pressing the [Cursor button (Up/Down)].  
(R.C. Address : Remote Controller Address)



- 5) Select the [Function No.] with pressing the [Cursor button (Left/Right)], and select the Function No. to be set with pressing the [Cursor button (Up/Down)].



- 6) Select the [Setting No.] with pressing the [Cursor button (Left/Right)], and select the Setting No. to be set with pressing the [Cursor button (Up/Down)], and press the [Enter button].



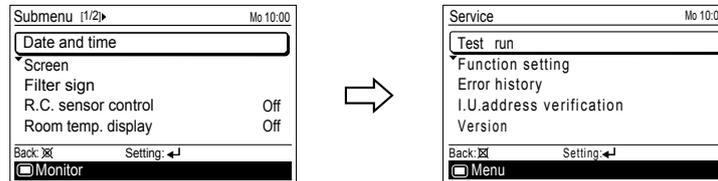
## 7-3. REMOTE CONTROLLER

Perform the following operations within 3 minutes after turning on the power.

- 1) Enter the "Service" screen.

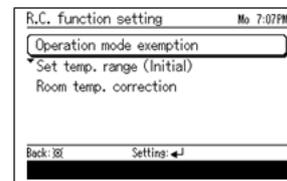
When [Menu button] is pressed twice while "Monitor" screen is displayed, it switches to the "Submenu" screen.

Press the [Screen switch button (Left)] and [Screen switch button (Right)] simultaneously for 5 seconds to switch to "Service" screen.



- 2) Press the [Screen switch button (Left)] and [Enter button] and [Cursor button (Downward)] simultaneously for 5 seconds.

- 3) Switches to the "R.C. function setting" screen.



### Operation mode exemption

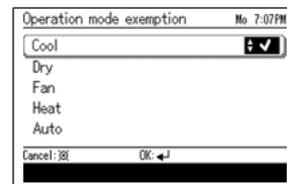
The specified operation mode can be removed from the operation mode menu of the wired remote controller.

\* This does not mean that the operation mode is exempted from the indoor unit.

- Check the operation modes you want to exempt.

Note :

- In the case of dual remote control operation, make the primary unit and the secondary unit setting the same. Even if only the primary unit is set, it will not be reflected at the secondary unit.
- After setting, always perform operation (operation in other than the exempted modes). Since the indoor unit memorizes the last operation, overwriting the memory operation mode is unnecessary.



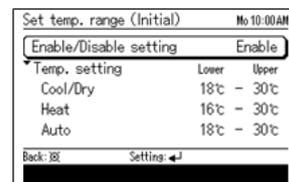
### Set temp. range (Initial)

The set temperature range of the wired remote controller can be restricted from the beginning.

- Set the set temperature range of each operation mode.

Note :

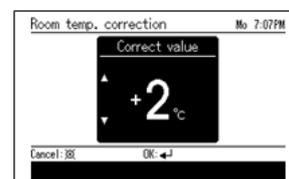
- In the case of dual remote controller operation, make the primary unit and secondary unit settings the same. Even if only the primary unit is set, it is not reflected at the secondary unit.
- After setting, always perform operation. Since the indoor unit memorizes the last operation, overwriting of the memory operation mode is unnecessary.



### Room temp. correction

The value sensed by the temperature sensor listed in the wired remote controller can be corrected.

- Set the correction value.



## 8. ACCESSORY PARTS

Name and shape	Q'ty		Summary
	UTY-RVN*M	UTY-RVNYN	
Installation manual 	1	1	Instruction book for installation
Operating manual 	1	1	Instruction book for operation
Remote controller cable 	1	-	For connecting the remote controller
Connecting cable 	1	1	For connecting the remote controller cable to the wall mounted type and the floor type indoor unit
Screw (M4 × 16 mm) 	2	2	For installing the remote controller
Cable tie (Small) 	1	1	For remote controller and remote controller cable binding
Cable tie (Large) 	-	1	For remote controller and remote controller cable binding
Tube 	-	1	To protect wiring
Screw (M4 × 14 mm) 	1	1	For installing the remote controller cable to the indoor unit
Cable clamber 	1	1	For installing the remote controller cable to the indoor unit