MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.

REMOTE CONTROL INSTALLATION MANUAL



English is Original RC-EX3D PJZ012D151

This installation manual describes the installation method and cautions related to the remote controller. Refer to the manual together with manuals attached to the indoor unit, outdoor unit and other. Be sure to read this manual before work in order to work correctly.

1. Safety precautions

Please read this manual carefully before starting installation work to install the unit properly. Every one of the followings is important information to be observed strictly.
 WARNING Failure to follow these instructions properly may result in serious consequences such as death, severe injury, etc.
 CAUTION Failure to follow these instructions properly may cause injury or property damage.
 It could have serious consequences depending on the circumstances.
 The following pictograms are used in the text.
 Never do.
 Always follow the instructions given.

• Keep this manual at a safe place where you can consult with whenever necessary. Show this manual to installers when moving or repairing the unit. When the ownership of the unit is transferred, this manual should be given to a new owner.

	A WARNING
	 Consult your dealer or a professional contractor to install the unit. Improper installation made on your own may cause electric shocks, fire or dropping of the unit.
	 Installation work should be performed properly according to this installation manual. Improper installation work may result in electric shocks, fire or break-down.
	• Be sure to use accessories and specified parts for installation work. Use of unspecified parts may result in drop, fire or electric shocks.
	 Install the unit properly to a place with sufficient strength to hold the weight. If the place is not strong enough, the unit may drop and cause injury.
	• Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit. Power source with insufficient and improper work can cause electric shock and fire.
	 Shut OFF the main power supply before starting electrical work. Otherwise, it could result in electric shocks, break-down or malfunction.
\bigcirc	Do not modify the unit. It could cause electric shocks, fire, or break-down.
	• Be sure to turn OFF the power circuit breaker before repairing/inspecting the unit. Repairing/inspecting the unit with the power circuit breaker turned ON could cause electric shocks or injury.
\bigcirc	• Do not install the unit in appropriate environment or where inflammable gas could generate, flow in, accumulate or leak. If the unit is used at places where air contains dense oil mist, steam, organic solvent vapor, corrosive gas (ammonium, sulfuric compound, acid, etc) or where acidic or alkaline solution, special spray, etc. are used, it could cause electric shocks, break-down, smoke or fire as a result of significant deterioration of its performance or corrosion.
\bigcirc	• Do not install the unit where water vapor is generated excessively or condensation occurs. It could cause electric shocks, fire, or break-down.
\bigcirc	• Do not use the unit in a place where it gets wet, such as laundry room. It could cause electric shocks, fire, or break-down.
\bigcirc	Do not operate the unit with wet hands. It could cause electric shocks.

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)	• Use the specified cables for wiring, and connect them securely with care to protect electronic parts from external forces. Improper connections or fixing could cause heat generation, fire, etc.
	• Seal the inlet hole for remote control cable with putty. If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down. If dew or water enters the unit, it may cause screen display anomalies.
	 When installing the unit at a hospital, telecommunication facility, etc., take measures to suppress electric noises. It could cause malfunction or break-down due to hazardous effects on the inverter, private power generator, high frequency medical equipment, radio communication equipment, etc. The influences transmitted from the remote control to medical or communication equipment could disrupt medical activities, video broadcasting or cause noise interference.
)	• Do not leave the remote control with its upper case removed. If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.

\bigcirc	 Do not install the remote control at following places. (1) It could cause break-down or deformation of remote control. Where it is exposed to direct sunlight Where the ambient temperature becomes 0 °C or below, or 40 °C or above Where the surface is not flat Where the strength of installation area is insufficient (2) Moisture may be attached to internal parts of the remote controller, resulting in a display failure. Place with high humidity where condensation occurs on the remote controller Where the remote controller gets wet (3) Accurate room temperature may not be detected using the temperature sensor of the remote controller. Where the average room temperature cannot be detected Place affected by outside air in opening/closing the door Place exposed to direct sunlight or wind from air conditioner Where the difference between wall and room temperature is large 	
\bigcirc	 To connect to a personal computer via USB, use the dedicated software. Do not connect other USB devices and the remote controller at the same time. 	

It could cause malfunction or break-down of the remote controller/personal computer.

2. Accessories & Prepare on site

Following parts are provided.

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Accessories R/C main unit, wood screw (ø3.5 x 16) 2 pcs, Quick reference

Following parts are arranged at site. Prepare them according to the respective installation procedures.

Item name	Q'ty	Remark	When the cable	length is longer than
Switch box For 1 piece or 2 pieces (JIS C8340 or equivalent)	1	-	100 m, the max in the R/C case	size for wires used is 0.5 mm ² . Connect
Thin wall steel pipe for electric appliance directly on a wall. (JIS C8305 or equivalent)	As required	Inese are not required when installing directly on a wall.	the outside of R	/C. When wires are
Lock nut, bushing (JIS C8330 or equivalent)	As required		water, etc. from	entering inside.
Lacing (JIS C8425 or equivalent)	As required	Necessary to run R/C cable on the wall.	≦ 200 m	0.5 mm ² x 2-core
Putty	Suitably	For sealing gaps	≦ 300m	0.75 mm ² x 2-core
Molly anchor	As required		≦ 400m	1.25 mm ² x 2-core
R/C cable (0.3 mm ² x 2 pcs)	As required	See right table when longer than 100 m	≦ 600m	2.0 mm ² x 2-core

Secure the installation space shown in the figure.

For the installation method, "embedding wiring" or "exposing wiring" can be selected.

For the wiring direction, "Backward", "Upper center" or "Upper left" can be selected. Determine the installation place in consideration of the installation method and wiring direction.







Up to two units of R/C can be used at the occupation of R/C can be used at the									×: not a	perable	
maximum for 1 indoor unit or 1 group	R/C operations		Main	Sub	R/C operations			Main	Sub		
One is main B/C and the other is sub B/C	Run/Stop, Chang	Run/Stop, Change set temp,				Service setting	Installation	IU back-up func	tion	0	×
One is main into and the other is sub into.	Change flap dire	ction, Auto swi	ng, Change fan speed	0	0		settings	Motion sensor s	etting	0	×
Operating range is different depending	operations							Remote controll	er alarm sound setting	0	×
on the main or sub R/C.	Anti draft			0	×			Auto anti draft c	ontrol setting	0	×
	High power open	ation, Energy-s	saving operation	0	0			UV-C drain setti	ng	0	×
	Silent mode cont	rol		0	×		R/C function	Main/Sub of R/C		0	0
	Useful functions	Individual flap	control	0	×		settings	Return air temp		0	×
		Anti draft sett	ing	0	×			R/C sensor		0	×
		Auto anti draf	t ctl	0	×			R/C sensor adju	stment	0	×
Indoor unit		Timer		0	0			Operation mode		0	×
		Weekly timer		0	×			°C / °F		0	×
⊗ ⊗ R/C cable		Favorite settir	ng	0	0			Fan speed		0	×
(No polarity)		Home leave n	node	0	×			External input		0	×
		External venti	lation	0	0			Upper/lower flag	control	0	×
		Select the lan	guage	0	0			Left/right flap co	ontrol	0	×
		Silent mode o	ontrol	0	×			Ventilation settir	ng	0	×
		Wireless inter	face setting	0	×			Auto-restart	-	0	×
"Main" "Sub"		Control mode	& Eco level	0	×			Auto temp settir	ng	0	×
Cot the "Main" and "Cub" of described	Energy-saving se	etting		0	×			Auto fan speed		0	×
Set the "Main" and "Sub" as described	Filter	Filter sign res	et	0	0		IU settings			0	×
at Section 8.	User setting	Initial settings	3	0	0		Service &	IU address		0	0
		Administrator	Permission/Prohibition	0	×		Maintenance	Next service dat	e	0	×
		settings	setting	_				Operation data		0	×
			Outdoor unit silent mode	0	×			Error display	Error history	0	0
			Cotting town range						Display/erase		
			Setting temp range	0	×				anomaly data	0	×
			Cet temp display	0	×				Reset periodical		0
			Set temp display	0	0				check	0	0
			Change edministrater	0	0			Saving IU setting	gs	0	×
			change auministrator	0	0			Special set-	Erase IU address	0	×
			F1/F2 function setting	0	0			tings	CPU reset	0	0
			Pafrigerant leak datactor						Restore of default	0	×
			setting	0	×				setting		
	Service setting	Installation	Installation date	0	×				Touch panel calibra-	0	0
		settings	Company information	0	0			Indoor unit capa	city display	0	×
			Test run	0	×			Safety system n	naintenance	0	×
			Static pressure adjustment	0	×			LIV-C drain servi	ce setting	0	~
			Change auto-address	0	×	L	1	o. o drain ocra	oo ootung		~
			Address setting of main IU	0	×						



Advice: Initializing of password

Administrator password (for daily setting items) and service password (for installation, test run and maintenance) are used.

 The administrator password at factory default is "0000". This setting can be changed (Refer to User's Manual).

If the administrator password is forgotten, it can be initialized by holding down the [F1] and [F2] switches together for five seconds on the administrator password input screen.

 \circ Service password is "9999", which cannot be changed.

When the administrator password is input, the service password is also accepted.

Advice

When connecting two or more FDT/FDTC to one R/C, unify the panel type either to a panel with anti draft function or a standard panel.



USB port

[F1] [F2] switch

6. Power on and initial setting



7. Installation settings and test run

TOP screen Menu \Rightarrow Service setting \Rightarrow Installation setting \Rightarrow Service password

1 Installation settings menu				
Installation settings		Installation settings		Installation settings
Installation date		Address setting of main IU -12		UV-C drain setting -22
Company information -3	\Rightarrow	IV back-up function -16		
Test run ~6	~	Motion sensor setting -19	1	
Static pressure adjustment -9	$\langle \Box$	Remote controller alarm sound setting -20	$\langle \Box$	
Change auto-address -10		Auto anti draft control setting -21		
Next Back		Previous Next Back		Previous Back
beleet the nem.		Select the Item.		Select the Item.
he selected screen is displayed.				



Company in	formation	
Company In	< <u>4</u>	
Phone No.	~5	
		Back

4	Ente	r the	e Co	mpa	any			
Comp	any r						<u>Se</u>	et
	lumber		A	lphab	et	(K)	ч РИЛЛ	ица
A	В	С	D	E	F	G	Н	Ι
J	К	L	M	N	0	Ρ	Q	R
Del	ete				Next		Ba	ick
Input	the	name	& ta	p [Se	t].			

(6) Test run

Cooling test run

Drain pump test run

Compressor Hz fixed operation

Test run

Enter the company information.

Enter the company name using up to 26 one-byte characters and then tap the Set button. You can enter alphanumeric, Cyrillic, or characters.

⑦ Cooling test run

When tapping [Start], test run starts for 30 min. at 5°C in cooling. Finish-condition of test run is follows.

Cooling test run

(5) Enter th	e Pho	ne No	Э.	
Phone No.				
0123-	456.	- 789	99	-
01	2	3	4	Delete
56	7	8	9	Set
Input the phone N	n & tan [Set1		Back

Back Select the item.

~7)

< 8)

The selected screen is displayed.

(9) Static pressure adjustment

Static pressure adjustment

10

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Tap \blacktriangle \checkmark to set the value of Pa

AUTO

Set

Back

This can be operated while cooling is stopped. When the room temperature is too low to start the cooling test run, it operates for 30 minutes by decreasing the set temperature to 5°C.

Start

Passage of 30 min./Stop the IU/Change "Set temp", "Operation mode" on the TOP screen.

Back

This is operable in case of connecting duct type IU equipped with the external static pressure adjustment function. Select the external static pressure and tap the Set button.

7. Installation settings and test run (Continued)

Back



(11) Change auto-address OU address Tap ▲ ▼ to set address & [Set]

(14)(15) Address setting of main IU

127

Tap ▲▼to set address & [Set].

(Figure shows the Shut-off valve)

Address setting of main IU

Shut-off valve

12 Address setting of main IU Address setting of main IU PFD-Box -13 Shut-off valve ~14) Refrigerant leak detector <15 Back Select the item.

Select the device to set.

Set this when sharing a Shut-off valve/

Refrigerator leak detector among two or more

Set the address of the Main IU to the Sub IUs.

For installation conditions required to be set,

refer to the installation manual of each device

or the safety measure manual.

In case of Multi series (KX) models, the IU addresses registered with the auto-address setting method can be changed with this function.

This function changes the OU address for each IU. Select an IU and,

- I When an indoor unit is selected and the Change button is tapped, the display changes to the Change auto-address screen (1).
- I Tap the Set button to return to the screen (10) and display the new address.
- III Tap the Finish button to register the new address.



In case of Multi Series (KX) models, it is possible to let indoor units (Sub IUs) follow the operation mode (Heating, cooling) of the indoor unit (Main IU). Set the address of the Main IU to the Sub IUs. The Sub IUs to which the Main IU address is set follow the Main IU settings.

IU back-up function	
IU rotation	Disable Details
IU capacity back-up	Disable Details
IU fault back-up	Disable

In case of 2 sets of indoor units (2 groups) connected to one R/C, it is available to perform back-up operation with them.

IUs.

Cancel

Set

Back

1. IU rotation: Operate 2 sets of indoor units alternately at every set time of operation interval.

2. IU capacity back-up: When the temp difference between the set temp and the actual room temp is higher than the set temp diff., 2 sets of indoor units operate. 3. IU fault back-up: If one of the IU has a fault and stops, the other one starts operation.

Since all IU stop operation, if a refrigerant leak is detected (E23 is displayed), the IU fault back-up is invalidated.

Select Enable / Disable (tapping Disable changes to Enable) and tap the Enter button to confirm the settings.





In IU rotation function, the timer to changeover the operation of 2 indoor units is set.

The timer can be set within the range of 1 to 999 hours in increments of ten hours.

After the time is changed, tap Set for temporary setting. After temporary setting, return to the IU Back-up function screen and tap Enter .

Back-up control restrictions

- 1. The back-up control is unavailable when the operation mode is "Auto". When the back-up control is set for the air conditioner that specifies "Auto" for the operation mode, the operation mode changes to "Cooling" automatically.
- 2. When the rotation control is set, the fault back-up control will be enabled automatically. In this case, the fault back-up control cannot be disabled alone. When the rotation operation is disabled, the fault back-up control will also be disabled.
- 3. When the capacity back-up control is set, the fault back-up control will be enabled automatically. In this case, the fault back-up control cannot be disabled alone. When the capacity back-up control is disabled, the fault back-up control will also be disabled. 4. It is also possible to enable the fault back-up control alone.
- 5. The home leave mode, warming up and external input cannot be set together with the back-up control.
- 6. While the rotation or fault back-up control is set, either of the two target indoor units (two groups) will operate. Both units will not operate at the same time.
- 7. An indoor unit having younger address will start the operation first in each control.

(19) Motion sensor se	etting
Motion sensor setting	
Disable	
Enable	
Select the item.	Bac

Caution

· For customers who adapt a motion sensor, please proceed the setting shown on the left and enable the indoor unit to be used to detect the activity amounts of persons.

When the motion sensor is disabled, activity amounts of persons will not be detected and thus the motion sensor control (power saving and auto-off) will not be performed.

For indoor units without a motion sensor, tap the Motion sensor setting to display "Invalid request".

Select Enable / Disable for the motion sensor of the indoor unit connected to the R/C.

20 Remote controller alarm sound setting	
Remote controller alarm sound setting	
nable	
Disable	
Back	
elect the item.	

Select Enable / Disable for R/C alarm sound.

Enable Sounds the alarm if a refrigerant leak is detected or the Refrigerant leak detector gets into trouble. Sound volume of alarm is about 60dB at 1 m from the R/C.

Disable The alarm does not sound even if a refrigerant leak is detected or the Refrigerant leak detector gets into trouble.

The difference between the setting temperature for a change between
one unit and two units for capacity back-up and room temperature is set.
The temperature can be set within the range of 2 to 5 °C in increments
of 1 °C.
After the temperature is changed, tap Set for temporary setting.
After temporary setting, return to the IU Back-up function screen and
tap Enter .



$\begin{array}{c c c c c c c c c c c c c c c c c c c $	B. R/C function settings	Advice: It is valid when unit stops.
Image: Provious Provious Provious Previous	$OP screen Menu \Rightarrow Service setting$	$g \Rightarrow R/C$ function settings \Rightarrow Service password
R/C function settings R/C function settings R/C function settings R/C function settings Main/Sub of R/C <2	① R/C function settings menu	
	R/C function settings Main/Sub of R/C -(2) Return air temp -(3) R/C sensor -(4) R/C sensor adjustment -(7) Operation mode -(8) Next Back	R/C function settings °C / °F •9 Fan speed •10 External input •11 Upper/lower flap control •12 Left/right flap control •13 Previous Next Back Previous
	Main/Sub of R/C	Use this when changing the Main/Sub setting of R/C.
Image: Constraint of B/C Use this when changing the Main/Sub setting of R/C.	Main Sub	
Imain/Sub of R/C Use this when changing the Main/Sub setting of R/C. Main/Sub of R/C		

8. R/C function settings (Continued)

③ Return air temp Return air temp Individual Master IU Averaged temp Select the item. Back Thermo. rule is applied based on the temperature detected with the return air temp sensor of IU. When plural indoor units are connected to one R/C, the return air temp applied to the thermo. rule can be selected.	 Individual : Thermo. rule is applied based on the return air temp of each IU. When plural units are connected to one R/C, it is based on the return air temp of the main unit. Master IU : Thermo. rule is applied based on the return air temp of IU having the youngest address out of IUs connected. If there are several sets of plural units each of which is connected to one R/ C, it is based on the IU having the youngest address out of the main units of each plural units. Averaged temp : Thermo. rule is applied based on the average of return air temperatures of IUs connected. 	Image: Arrow of the select the item. Image: Arrow of the selected screen is displayed.
(5) R/C sensor Note: Note: Disable Note: Enable Note: Enable(Heating only) Note: Enable(Cooling only) Note: Select the item. Back	You can change IU main unit return air ter Disable The Indoor temp display chansensor at the main unit. Enable The Indoor temp display chanses of the Indoor temp display chanses of the Indoor temp display chanses of the Indoor temp measured by the Indo	mperature sensor to the R/C side. nges to the temperature measured by the nges to the temperature measured by the R/ display changes to the temperature R/C side sensor during heating only. display changes to the temperature R/C side sensor during cooling only. Set temp 23.0 °C Room (R/C) 22°C When the R/C sensor is enable, the TOP screen displays "Room (R/C) \bigcirc °C"
(6) Select RC sensor Select RC sensor Main RC Sub RC a Sub RC b Sub RC c Sub RC b Sub RC c Set Back Select a R/C sensor to use. Sonnected R/C is displayed. Image: Select a R/C is displayed. Set Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select a R/C is displayed. Image: Select	⑦ R/C sensor adjustment R/C sensor adjustment Adjustment in cooling Adjustment in heating Back Select the item. You can adjust the R/C sensor detection temperature. Enable or Disable can be set for each operation mode. If the cooling or heating is disabled, the auto is also disabled.	Acjustment in cooling Tap I to set offset value. Image: I

8. R/C function settings (Continued)

(9) °C/°F	
00 / 05	
<u> </u>	
°F	
Select the item.	Back

Select the unit of temperature displayed on the R/C.

10 Fan speed	
Fan speed	
4-speed	
3-speed	
2-speed (Hi-Lo)	
2-speed (Hi-Me)	
1-speed	
Select the item.	Back

Fan speed can be changed to the selected one. It may not be available to select some of fan speeds depending on indoor unit models.

Back Select the item. Set the range to apply the external input received through CNT of either one IU to plural indoor units connected in one system Individual This is applied only to the IU receiving CNT input. All units This is applied to all indoor

(1) External input

External input Individual All units

units connected.

12 Upper/lower flap control Upper/lov Stop at fixe

13 Left/right flap control Left/right flap control

Fixed position stop

Stop at any position

Upper/lower flap control	
Stop at fixed position	
Stop at any position	
Select the item.	

Stop at fixed position The upper/ lower flap can be set to stop at one of four positions.

Stop at any position The flap can be set to stop at any position immediately after operating the R/C switch.

(Figure shows the Auto-restart)

Back Select the item. Fixed position stop The left/right flap can be set to stop in eight different patterns. Stop at any position The flap can

be set to stop at any position immediately after operating the R/C switch.

Disable		
Interlocking		
Independent		

Set this when a ventilation device is connected. Disable No ventilation device is connected. Interlocking Ventilation is interlocked with the Run/Stop of air conditioner and operate the Ventilation output. Independent If the ventilation is selected from the menu, only the ventilation device is operated or stopped independently.

	(15) Auto-restart
(15(16)(17) (Enable/Disable setting)	If the unit stops during operation,
Auto-restart	Enable It returns to the state before the power failure as soon as the power supply is restored (After the end of the primary control at the power on).
Enable	Disable It stops after the restoration of power supply.
Disable	
	(16) Auto temp setting
	Enable Auto can be selected on the room temperature setting screen.
	Disable Auto selection switch will not be displayed on the room temperature
	setting screen.
Select the item.	17 Auto fan speed
igure shows the Auto-restart)	Enable Auto can be selected on the fan speed setting screen.

Disable Auto selection switch will not be displayed on the fan speed setting screen.

TOP screen Menu \Rightarrow Service setting \Rightarrow IU settings \Rightarrow Service password

1 IU se	lect]		
IU select			Menu		IU select	
000	001	002	003	\Rightarrow	008	00
004	005	006	007	\Diamond	012	01
All units Select an IU a	ddress.	Next	Back		All units Select an IU a	Previ ddress.

		(2) Loading
	Menu	
010	011	Loading. Wait a while.
014	015	$\overline{\mathbf{x}}$
	Back	

When plural indoor units are connected, they are displayed on the screen. 000 to 015 Individual settings are performed for indoor units. All units The same setting applies to all units.

data from the IU.

IU settings			IU settings			IU settings	
Fan speed setting	~4)		External input 2 signal	~7)		Anti-frost temp	~12
Filter sign	~5	\Rightarrow	Heating thermo-OFF temp adjustment	~8		Anti-frost control	-13
External input 1	~6	1	Return temperature adjustment	~9	1	Drain pump operation	~14
External input 1 signal	~7)	$\langle \Box$	Fan control in cooling thermo-OFF	~10	$\langle \Box$	Keep fan operating after cool	ing is stopped 🦯 1
External input 2	~6		Fan control in heating thermo-OFF	~11		Keep fan operating after heat	ing is stopped –16
Select the item.	Next Back		Previous Next Select the item.	Back		Previous Select the item.	Next Back

009

013

Previous

Auto fan speed control	-35	
IU overload alarm	-36	
External output setting	-37	
Previous)	Back

IU settings	
Intermittent fan operation in heating	~17)
Fan circulator operation	-18
Control pressure adjust	-19
Auto operation mode	~20
Thermo. rule setting	~31
Previous	Back
Select the item.	

 \Box

④ Fan speed setting Fan speed setting Standard Setting 1 Setting 2 Back Select the item.

(5) Filter sign	
Filter sign	
No display	
Setting 1	
Setting 2	
Setting 3	
Setting 4	
Select the item.	Back

	Standard
No display	None
Setting 1	180Hr
Setting 2	600Hr
Setting 3	1,000Hr
Setting 4	1,000Hr Operation stop

Set the fan speed tap for the IU. Refer to the engineering data for details.

Set the time to display the filter sign.

The display changes to ④ after receiving

9. IU settings (Continued)

6 External input 1		
External input 1		External input 1 Forced thermo-OFF
Run/Stop	\Box	Temporary stop
Permission/Prohibition	, r	Silent mode
Cooling/Heating	$\langle \neg$	Refrigerant leakage
Emergency stop		
Setting temperature shift		
Select the item.		Previous Back Select the item.

⑦ External input 1	signal	
External input 1 signal		
Level input Pulse input		
Select the item.		Back

Set the control at the time when the signal is input to the external input 1 (CNT) of IU. Refer to the engineering data for details.

Set the signal type to input to the external input 1 (CNT) of IU. Refer to the engineering data for details.

This is operable when the IU equipped with the external input 2 is connected. Refer to the engineering data for details.

 ⑧ (Temperature adjustment) Heating thermo-OFF temp adjustment Tap ▲ ▼ to set offset value. + 2.0 ℃ Fet Back 	 (8) Heating thermo-OFF temp adjustment Adjust the temperature for judging to make thermostat ON or OFF during heating operation. Adjustable range is 0°C / +1°C / +2°C / +3°C. (9) Return temperature adjustment Adjust the main return air temperature sensor detection temperature. Adjustable range is -2°C / -1.5°C / -1°C / 0°C / +1°C / +1.5°C / +2°C. (Figure shows the heating room temperature correction.)
(1) (Fan control) Fan control in heating thermo-OFF Low Set fan speed Intermittent Stop Select the item.	 (1) Fan control in cooling thermo-OFF (1) Fan control in heating thermo-OFF Set the fan speed at the cooling/heating thermo-OFF. Low The fan runs at the low speed. Set fan speed The fan runs at the same speed as that during the thermo-ON operation. Intermittent Cycles of Lo fan operation for 2 minutes and stop for 5 minutes are repeated. Stop The fan is stopped. (Figure shows the cooling fan control.)
① Anti-frost temp Anti-frost temp Temp Low Temp High	Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set the fan control during the anti-frost control Image: Set th

Select the item.

Back

Standard (in co	oling & dry)	Operate in standard & fan Operates in cooling, dry and fan modes.
Operate in stan	dard & heating	
Operate in heat	ing & fan	
Operate in stan	dard & fan	
Select the item.	Back	
(15)(16) (Kee Keep fan op No setting Setting 1 Setting 2 Setting 3 Select the item.	p fan operating) erating after cooling is stopped	 (5) Keep fan operating after cooling is stopped (6) Keep fan operating after heating is stopped Select the residual fan operation time period after stopping and the thermo-OFF in cooling/heating mode. No setting Residual fan operation not performed. Setting 1 0.5 hours Setting 2 2 hours Setting 3 6 hours *Residual time may vary.
(7) Intermit Intermittent f Stop Stop for 20 min Stop for 5 min Stelect the item.	tent fan operation in heating an operation in heating & run for 5 min & run for 5 min Back	 Select the fan control after the residual fan operation following stop and thermo-OFF in heating mode. Stop Intermittent fan operation is not done. Stop for 20 min & run for 5 min Check the operating conditions at every 25 min and run the fan for 5 min. Stop for 5 min & run for 5 min Check the operating conditions at every 10 min and run the fan for 5 min.
18 Fan circulator Fan circulator Disable Enable	culator operation	(i) Control pressure adjust Control pressure adjust Standard Type1
Select the item. Set this wher circulator. Disable Du	Back n operating the fan as a uring the fan operation, the	Select the item. Back Set the control pressure when connecting the outdoor air conditioning unit to the Multi (KX) System.
fan runs cont Enable Du the fan runs a	inuously. uring the fan operation, and stops based on the	Standard Normal Type1 When all operating IUs are in this mode, the control pressure value is

this mode, the control pressure value is changed.

9. IU settings (Continued)

14 Drain pump operation

Drain pump operation

Standard (in cooling & dry) Operates in cooling and dry modes.

Operate in heating & fan Operates in all modes.

Operate in standard & heating Operates in cooling, dry and heating modes.

9. IU settings (Continued)

Select the anti-frost control temperature.

Select the item.

Back

9. IU settings (Continued)

difference between temperatures

return air sensor.

detected with the R/C sensor and the



the outdoor temp setting to limit in cooling is 19 °C, and the outdoor temp

setting to limit in heating is 18 °C.

9. IU settings (Continued)



3 Outdoor temperature cooling correction 3 Outdoor temperature heating correction Set the correction value to judge cooling/heating with the thermostat within the following range. Indoor temperature > (Outdoor temperature - Cooling Cooling: 0 -10°C

correction value)

Heating: 0 – 5°C Indoor temperature < (Outdoor temperature – Heating correction value)

35 Auto fan speed control Auto fan speed control Auto 1



Set the switching range of the fan tap at the auto fan speed setting. Auto 1 The fan tap is changed in the range of High \Rightarrow Medium \Rightarrow Low. Auto 2 The fan tap is changed in the range of Powerful high \Rightarrow High \Rightarrow Medium \Rightarrow Low.



When the room temperature differs to some extent from the setting temperature at 30 minutes after the start of operation, the overload alarm signal is transmitted from the external output (CNT-5).

External output function		External output function
External output 1		Operation output
External output 2	$\overline{}$	Heating output
External output 3	$\langle \neg$	Compressor ON output
External output 4		Inspection (Error) output
		Cooling output
Select the item.		Next Back

The following shows output connectors and defaults. External output 1 CNT -2 Operation output External output 2 CNT -3 Heating output External output 3 CNT -4 Compressor ON output External output 4 CNT -5 Inspection (Error) output Refer to the engineering data for details.

Operation output
 Heating output
Compressor ON output
Inspection (Error) output
Cooling output
Fan operation output 1
Fan operation output 2
Fan operation output 3
Defrost/oil return output
Ventilation output
Heater output
Free cooling output
Indoor unit overload alarm output
Refrigerant leakage output
Shut off valve output

Operation data to be displayed

10. Service & Maintenance

TOP screen Menu \Rightarrow Service setting \Rightarrow Service & Maintenance \Rightarrow Service password

① Service & Mainter	nance			
Service & Maintenance			Service & Maintenance	
IU address -2			Special settings	~13
Next service date <3			Indoor unit capacity display	~15
Operation data <4		1	Safety system maintenance	~16
Error display -5		$\langle \Box$	UV-C drain service setting	~25
Saving IU settings <10				
	Next Back		Previous	Back
Select the item.			Select the item.	

The selected screen is displayed.



When 8 or more units are connected, further data are displayed on the next page. When the Check button is tapped after selecting an IU address, the fan of the selected IU can be operated.



When next service date is entered, messages are displayed at the start/stop of operation on the service month. Contents are reset if the next service date is updated. If the No setting button is tapped, messages are not displayed.

Back



Displays operation data. Data on the screen is updated automatically. Tapping the Display button after selecting six items changes the display. Items of operation data to be displayed are as shown by the table at right.

(5) Error display		
Error display		
Error history	6	
Display anomaly data	~7)	
Erase anomaly data	~8	
Reset periodical check	-9	
		Back
Select the item.		

Error history			Delet
Time		IU	ErrorCod
2011/01/19 6	6:57 PM	014	E16
2011/01/19 6	6:57 PM	015	E15
2011/01/19 6	6:57 PM	012	E14
		<u> </u>	
			Back

Date and time when error occurred, IU address and Error Code are displayed. Tap the Delete button to delete the error history.

No.	Item
01	Operation mode
02	Set temp
03	Return air temp
04	R/C temp
05	IU heat exch. Temp 1
06	IU heat exch. Temp 2
07	IU heat exch. Temp 3
08	IU fan speed
09	Reaguired Hz
10	Answer Hz
11	IU EEV opening
12	Supply air temp
13	Relative humidity
14	IU operation Hrs.
15	Cool operation Hrs.
16	Heat operation Hrs.
21	Outdoor air temp
22	OU heat exch. Temp 1
23	OU heat exch. Temp 2
24	OU heat exch. Temp 3
25	Oll heat exch. Temp 4
26	Compressor Hz
20	Compressor Hz 2
28	High pressure
20	
20	Discharge nine temp
21	Discharge nine term 2
30	Comp bottom tomp
32	Comp bottom temp 2
33	
25	
36	
27	
20	Current 2
30	SH control
39	
40	
41	
42	
43	
44	
45	
40	
47	
48	
49	
50	03HI Defreet
51	Dellost
52	UU operation Hrs.
53	Comp. running Hrs
54	Comp. running Hrs 2
55	UU fan ope. Hrs. 1
56	UU fan ope. Hrs. 2
57	52C On/Off times
58	Control mode in OU
59	Eco level in Ou

⑦ Display anomaly data Display anomaly data IU 000 ErrorCode E09 OU Item 01 Operation mode 02 Set temp 03 Return air temp 05 IU heat exch. temp 1 06 IU heat exch. temp 2 Coolin

The operation data obtained just before the occurrence of an error are displayed. Operation data to be displayed are as shown by the table at right.

Next





Operation data to be displayed

Set temp

Answer Hz

Item

No.

01

02

03

05

06

07

08

09

10

11

12

13

21 Operation mode Outdoor air temp OU heat exch. Temp 1 22 OU heat exch. Temp 2 Return air temp 23 IU heat exch. Temp 1 24 Compressor HZ IU heat exch. Temp 2 25 High pressure IU heat exch, Temp 3 Low pressure 26 IU fan speed 27 Discharge pipe temp Required Hz 28 Comp bottom temp 29 Current IU EEV opening 30 SH control IU operation Hrs. 31 SH Supply air temp 32 TDSH 33 Protection control OU fan speed 34 35 63H1 36 Defrost 37 Comp.running Hrs 38 OU EEV1 opening 39 OU EEV2 opening

Item

No.

The anomaly data is erased.

10 Saving IU settings Saving IU settings Save IU settings Automatic saving ~11) Transfer the saved data <12 Back Select the item.

The time count is reset by resetting the periodical check.

Save IU settings All settings of the IUs connected to the R/C are saved in the R/C. Automatic saving Set the time when the automatic saving is performed everyday. Transfer the saved data The IU setting data saved in the R/C are transferred to an indoor unit.

(1) Automatic saving	
Automatic saving	
Saving automatically at the set time.	
	Set
No setting	Back
Tap ▲ ▼ to set clock time & tap [Set].	

Set the time when the automatic saving is performed everyday. If the No setting button is tapped, the automatic saving is not performed.

(12) Transfer the saved data				
IU select				
000	001	002	003	
004	005	006	007	
_				
		Next	Back	

Select an IU address.

Advice Have you ever lost setting contents after replacing an IU board? When IU settings are saved in the R/ C, the saved data can be written to IU using "Transfer the saved data".

If an IU to which the saved date is transferred is selected, the Transfer the saved data acknowledge screen is displayed. Tap Yes to transfer the data.

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10. Service & Maintenance (Continued)



10. Service & Maintenance (Continued)

18 Status of Shut-off valve Status of shut-off valve Item Data Shut-off valve (liq) open Shut-off valve (gas) close Coil electrified time ≥ 100000hours Open/Close times 2times Coil replace Timing to replace. SOV replace Timing to replace.	Displays the state of shut-off valve at screen shift. Items to be displayed are as shown by the table at down. To update the screen, shifts once more to the screen. Display items Shut-off valve (liq) Shut-off valve (gas) Coil electrified time Open/Close times Coil replace SOV replace	Image: Section 1 replacement notice Reset coil replacement notice Do you reset replacement notice? Yes Back
Reset SOV replacement notice Reset SOV replacement notice Do you reset replacement notice? Yes Back Resets Shut-off valve replacement notice.	② Safety system connection check Safety system connection check Item Data Shut-off valve Connected Leak detector A Connected Leak detector C Not connected Back Back	Refrigerant leak detector record setting Refrigerant leak detector record setting Record operation hrs of leak detector kit Transfer the saved data Back Select the item.
Record operation hrs of leak detector kit Record operation hrs of leak detector kit Do you record operation hours ? Yes Back Back Saves operation hours of selected refrigerant leak detector in the R/C.	Image: Constraint of the saved data Image: Constraint of the saved data Do you transfer operation hours? Yes Back Back	Image: Setting of strength and time <26
Image: Setting of strength and time Setting of strength and time Standard High 1 High 2 Back Select the item.	Set UV-C drain radiation time. Standard Repeats 15-minute radiation /60-minute stop. High 1 Repeats 30-minute radiation /60-minute stop. High 2 Operates the drain pump for 1 minute (about once per hour) after repeating 30-minute radiation/60-minute stop + operation stop.	Operation hours reset Deration hours reset Do you reset operation hours ? Yes Back Resets the UV-C drain operation hours.

[Selecting the language with the 🌐 🕢 button]

① Select the langua	age #1
23:02(Mon)	Menu
Now stopping.	
F1:High power F2	Energy-savi

Tap the **mathefactor** button on the TOP screen while the air conditioner is stopped.

Depending on how the Permission/ Prohibition setting (Refer to user's manual) is set, the administrator password input screen may be displayed.



② Select the language #2

The menu for select the language is displayed. Select the language to be displayed on the R/ C and tap the <u>Set</u> button. You can select from the following languages: English/German/French/Spanish/Italian/ Dutch/Turkish/Portuguese/Polish

[Selecting the language with the Menu button]	
TOP screen Menu \Rightarrow Useful functions \Rightarrow Select the language	
① Select the language	
Select the language	
English	
Deutsch	
Français	
Español	
Italiano	

Back

Next

The menu for select the language is displayed. Select the language to be displayed on the R/C and tap the <u>Set</u> button. You can select from the following languages: English/German/French/Spanish/Italian/ Dutch/Turkish/Portuguese/Polish

Set

Select the language