AC124 REMOTE CONTROLLER WITH LCD
(compatible with U-net series)
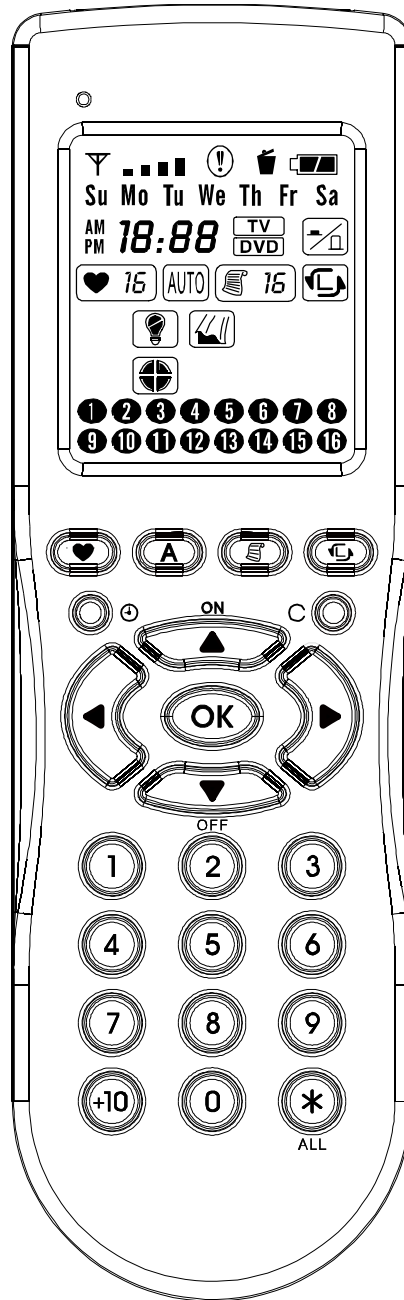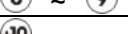
Device Number	Keypad Button	
⑩	+10	0
⑪	+10	1
⑫	+10	2
⑬	+10	3
⑭	+10	4
⑮	+10	5
⑯	+10	6

SYMBOL ON LCD SCREEN

Symbol	Name of Symbol	Significance
Y	Antenna	The remote controller is being communicated with other device.
▄▄▄█	Signal	The strength of RF signal in communication; it means communication failure if the symbol hasn¡t been shown.
①	Not Applicable	The setup made by the remote controller generates conflict.
▄▄	Battery Indicator	▄▄ full ▄ half to full ▢ low
Su~Sa	Day of Week	Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday
AM PM 18:88	Real Time	Time indication, AM means morning, PM means afternoon
♥ 16	Scene Mode	When execute scene settings or select preset scenes, an indication of ♥ will be shown. 16 means the setup is being undertaken or 16th setting is being executed.
📃 16	Schedule Mode	When it is in schedule setting, an indication of 📃 will be shown. 16 means the setup is being undertaken.
AUTO	Auto Mode	In auto mode; actions set in schedule can only be executed in auto mode.
🖳	Learning Mode	In learning mode
⌐	On/Off Status	▄ on, ⊔ off
⧄	Curtain Device	An indication of curtain device being applied.
💡	Incandescent Lamp Status	💡 full brightness, 💡 half brightness, 💡 darkness
⊕	Arm Status	⊕ fully arm, ⊕ part-arm 1, ⊕ part-arm 2, ⊕ disarm
❶~⓰	Device Number	Devices to be controlled
TV	TV	TV controllable status
DVD	DVD	DVD controllable status
🗑	Delete	Upon deletion is taken

KEYPAD BUTTON

| Symbol	Name of Symbol	Significance
♥	Scene Button	Used for setting or executing scene
Ⓐ	Auto Button	Used for entering or leaving the auto mode
📃	Schedule Button	Used for setting schedule
🖳	Learning Button	Used for entering learning mode (RF/TV/DVD)
▲	On Button	To operate together with ⓪~⑨ 、 +10 or ✳ (all) button, let the memorized individual or all devices to be activated; for time setting, it is regarded as UP.
▼	Off Button	To operate together with ⓪~⑨ 、 +10 or ✳ (all) button, let the memorized individual or all devices to be off; for time setting, it is regarded as DOWN.
◀	Leftward	Towards the left
▶	Rightward	Towards the right
OK	OK Button	Used for confirmation while setting or saving
⓪ ~ ⑨	Single Digit Button	Used for entering single digit
+10	Tens Digit Button	Used for entering tens digit
✳	✳Button	Used for controlling all devices
🕐	Time Setup Button	Keep pressing 3 seconds will enter present time setting
C	Mode Switching Button	Used for selecting mode type (RF/TV/DVD/Power Setting Mode)

INTRODUCTION

With this multipurpose remote controller, you can easily and affordably enhance the comfort and security of your home or office. You¡ll see how easy it is to create a full custom system quickly that can remotely control lamps and appliances, without costly professional installation ¡ a system that any do-it-yourself can easily handle.

You can create up to 16 scenes, every of which is controllable to numerous devices. When getting up, simply at a press of a button, the lamps in the porch and corridor will be turned off, a coffee maker will be turned on, the curtain in your bedroom will be rolled up and alarm system will be disarmed.

QUICK GUIDE

The following instructions can help you get started with the unit quickly.

1-1 Battery Indicator

In the right upper corner of LCD screen, a battery indicator is revealed. When battery level drops, it will show low battery.
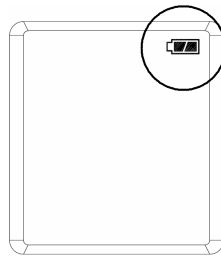

1-2 Battery Monitoring

● When battery level drops to half, watch out the battery and replace it depending on actual condition.
● After replacing the batteries, all of the settings made are still in existence.
● An adoption of alkaline battery is highly recommended. Different types of batteries or new and used batteries should not be mixed.
● Do not expose the battery to heat sources or sunlight.
● Put the battery out of children reach.
● When using depleted batteries, it will reduce the effectiveness of operating distance.
● Take out its batteries if it will not be used for a long period of time.
● To avoid the risk of battery leakage, remove the batteries which have been used for more than 1 year.

1-3 LCD Screen

● Do not use a sharp object to touch the screen, because it will hurt the surface of LCD screen.
● Place the unit in a dry location. If any splashing liquid apply to the LCD screen, wipe it immediately. Do not soak it in liquid.
● Do not place the unit in an extreme cold and hot environment. Keep the unit away from heat sources (e.g. fire, radiator, boiler, etc.)
● Avoid dropping the unit.
● Prevent any objects from falling on to LCD screen.
● Clean it only with a soft cloth or sponge moistened lightly with water. The use of abrasives solvents of any kind is strictly forbidden.

1-4 Operating Notice

● After replacing new batteries, the time clock will re-set. The time for operation set in schedule depends on the preset value of time clock.

1-5 Learning Mode

● To enable the unit to control target devices, the prerequisite is to have it learned with each target device.

● Because the way of entering learning mode for each target device varies, refer to the instructions for each target device.

● Up to 16 device ID can be emitted and received.　Device number ranges from ❶ to ⓰.

1-6 Scene Setup

● The unit can control each single device, in addition several devices can be configured all together as a scene for simultaneous operation which is regarded as scene setup.　The scene devices will be operated simultaneously after pressing scene and single/tens digit buttons.

● Up to 16 set of scene setup can be made.

● When entering scene setting, 180-second countdown will start. If the actions of scene setting have not been completed before 180-second countdown is out, 💟 will disappear and scene setting will stop.
(During setting process, 180-second countdown will re-start upon pressing any of △, ▽, ◁, ▷, OK, ⓪～⑨)

● If the unit enters scene setting without learning the ID code with any target device, an indication of ⓘ will be revealed which implies that the setting is failed.

1-7 Schedule Setup

● Only when the unit is set in auto mode, the devices grouped to the schedule and/or to the scene can periodical execute automatically when the time for operation is up.

● Up to 16 set of schedule setup can be made.

● When entering schedule setting, 180-second countdown will start.　If the actions of schedule setting have not been completed before 180-second countdown is out, 📑 will disappear and schedule setting will stop.
(During setting process, 180-second countdown will re-start upon pressing any of △, ▽, ◁, ▷, OK, ⓪～⑨)

● If the unit enters schedule setup without learning the ID code with any target device, an indication of ⓘ will be revealed which implies that the setting is failed.

● While undertaking schedule setup, ⓘ appears accidentally. It may be ascribed to time conflict between current and other schedule setup. Check out if time overlap exists among schedule setups or fail to group any devices or scene numbers to the schedule setup.

1-8 RF/TV/DVD/Power Setting Mode Selection

● Press ○ to switch among RF, TV, DVD and power setting mode.　Four mode types are provided for selections.

● RF Mode: U-net enabled devices can be controlled in RF mode, including devices such as Lamp Module, ON/OFF Module, Curtain Switch and Alarm System.

● TV Mode: To enable the unit to control TV, the prerequisite is to have the unit learned with TV controller via infrared.
Note: A total of 18 buttons can be used for button learning in TV mode, including △, ▽, ◁, ▷, OK, ⓪～⑨, ⁺¹⁰, ＊ and 💟.

● DVD Mode: To enable the unit to control DVD, the prerequisite is to have the unit learned with DVD controller via infrared.
Note: A total of 18 buttons can be used for button learning in DVD mode, including △, ▽, ◁, ▷, OK, ⓪～⑨, ⁺¹⁰, ＊ and 💟.

1-9 Power Setting Mode Selection

● Two mode types are provided for selections -- Normal Power Mode and Power Saving Mode.　Normal Power Mode is default setting.

● Normal Power Mode: The LCD is always on, for the easy of user to monitor time and other relevant information.

● Power Saving Mode: The LCD will turn off two minutes after use.　Press a button (this button is for awaking the unit only) to turn on the LCD.

1-10 USB Interface

The built-in USB interface is compatible with Everspring PC software. Scene and Schedule editing, RF device code learning, TV & DVD button learning, and time setting can be done via PC software.

Note: Please switch the unit to RF mode before entering USB interface. Avoid the unit entering time setup, learning mode or scene/schedule setup while connecting USB interface to PC.

OPERATING INSTRUCTIONS

To control on/up and off/down status of each target device, follow the below steps for operation:

1. It is of great importance to proceed with **2-2 learning mode** as prerequisite.
2. To display device status (e.g. ⊞ implies fully arm), press single/tens digit button (⓪, ⑨ and +10).
3. Press single/tens digit button and △ for on/up; while pressing single/tens digit button and ▽ for off/down (please refer to table 1 on page 11 for more operating instructions).
4. Using ✳ **(All)** and △ will turn on all of the devices; whereas ✳ **(All)** and ▽ will turn off all of the devices at a time.
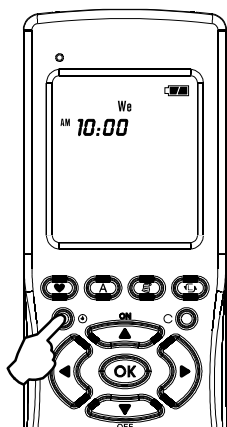   **Note:** When using ✳ **(All)** feature, it is only suitable for use with ⚃ and 🕯 type of products, while ◩ and ⊞ type of products cannot be applied.

PROGRAMMING INSTRUCTIONS

2-1 Time Setup

Set the present time as desired.

1. Press and hold the button next to 🕐 for 3 seconds.

2. Either AM or PM is flashing. Use △ ▽ to choose AM or PM (e.g. AM *12:00*).
3. After pressing ▷, HH of HH:MM starts flashing (e.g. AM *12:00*). Use △ ▽ or ⓪~⑨ to set HH. Further pressing ▷ offers MM adjustment. Use △ ▽ or ⓪~⑨ to adjust MM. (**Note**: Use ◁ ▷ to choose the item that needs to be adjusted)
4. Further pressing ▷ will enter day of week selection. Use ◁ ▷ to choose day of week (e.g. **Su Mo Tu We Th Fr Sa**). Press ◁ continuously will return to step 2 for edition.
5. Upon completion, press OK to save and exit.

2-2 Learning Mode (RF)

To be compatible with U-net devices:

1. Press 🔁 for 3 seconds until 🔁 is flashing then release. 🔁 is on steadily, which implies that the unit enters learning mode. Learning timeout period is 30 seconds.
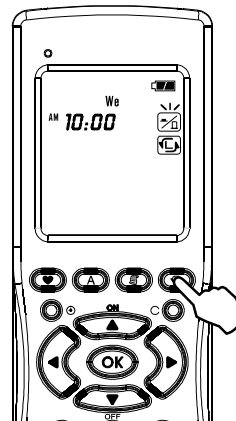
2. The unit will distribute an undistributed device number (❶~⓰) automatically, which will flash as an indication. While if a device number has been allocated, it will be on steadily. Alternatively, press ◁ ▷ or single/tens digit button to choose a device (❶ ~ ⓰) as desired, then press OK as confirmation.
3. The unit will emit its ID code to target device and resume 30 seconds countdown.
   (**Note:** To terminate 30 seconds countdown before timeout and return to step 2, please press OK).
4. Once the unit receives ID code of target device, the

device type -- 🖼, 💡 🖼 or ⊕ and strength of RF signal ▽ ▪▪▪▪ will be shown; the unit will return to step 2. Press 🔄 to exit the learning mode. If the unit exits the learning mode due to timeout without pressing 🔄, the setting will still be saved.

5. Check whether the learned device also shows an indication of successful learning. Repeat step 1-4 if learning fails.

   Note: The remote controller can only learn one set of Alarm System ID code. If there is second Alarm System ID code needs to be learned, the ID code of first will be replaced by second.
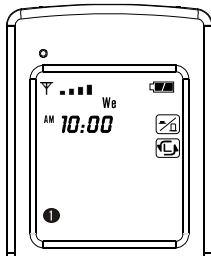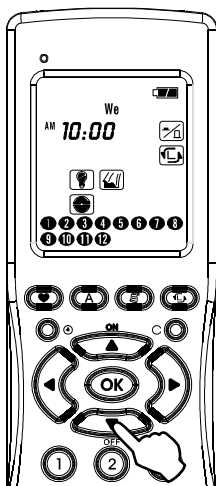
2-3 Clearing Mode

1. Press 🔄 for 3 seconds until 🔄 is flashing then release. 🔄 is on steadily, which implies that the unit enters learning mode. Learning timeout period is 30 seconds.
2. Press ▽ for 3 seconds, the device numbers (❶~⑯) allocated and their corresponding type of product -- 🖼, 💡, 🖼 or ⊕ will be on steadily.

3. If only some of the device numbers need to be cleared, follow steps 1,2,3. The clearing should be done within a time period of 30 seconds.

Use ◁ ▷ or single/tens digit button to select the device number that is to be cleared. The chosen device number and its corresponding type of product will be flashing. Press OK, the chosen device number and its corresponding type of product will be turned off. Press 🔄 to save and exit. Wait for a while until 🗑 is shown. It implies that the clearance is completed.
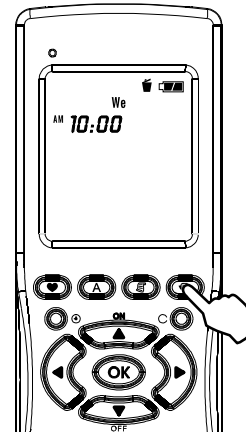
4. If you plan to clear all of the device number at a time, follow steps 1.2.4. The clearing should be done within a time period of 30 seconds.

   Simply press ✳ **(All).** All of the device numbers and their corresponding type of products will be flashing. Press OK, all of chosen device numbers and their corresponding type of products will be turned off. Press 🔄 to save and exit. Wait for a while until 🗑 is shown. It implies that the clearance is completed.

5. Make sure the target device also clears off the ID code of remote controller.

   Note: If the unit exits the learning mode due to time out without pressing 🔄, the setting will not be saved.

3-1 Scene Setup

When getting up, turn off the lights in the porch and corridor, turn on a coffee maker to make a cup of coffee, and roll up the curtain in your bed room. These three scenarios are set all together as a group which for instance has been configured for scene number 1. Simply pressing ♥ and then ① will take the actions as you wish. In short, when you plan to control several devices all at a time, make use of scene setting as the best and quickest solution.

1. Press ❤ for 3 seconds until ❤▭ is flashing then release. ❤▭ is on steadily.
2. Use ◁ ▷ or single/tens digit button to select the scene number for which you plan to configure. The scene number inside the ❤▭ is flashing.

   Note: ✳ (ALL) button is not suitable for use in scene setup.
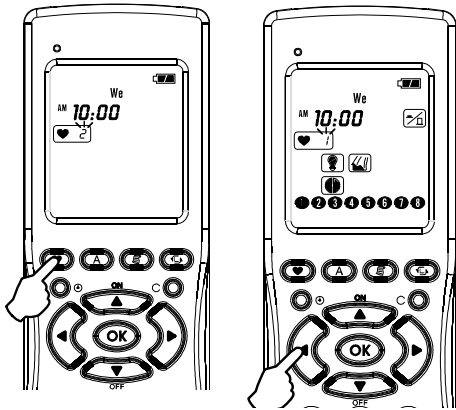
3. Press OK to enter scene setup.
4. Choose device number using ◁ ▷ or single/tens digit button, and then use △ ▽ to control ¡on¡ or ¡off¡ status directly for each device (e.g. for device number ❶ to be turned on, press ① and then △ for on or up; while ▽ for off or down. Repeat this procedure until designated devices are all set.
5. If all of the device numbers under the designated scene number are well set, press OK to save and exit. Press ❤ to exit without saving.

3-2 Operating Scene Command

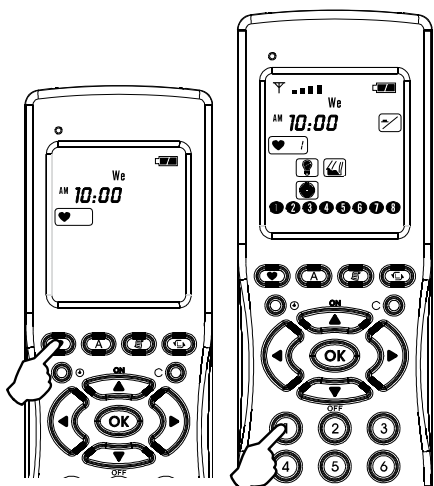Press ❤ and the scene number.

3-3 Editing Scene Setup

If modification is required, follow the below steps for revision.
1. Press ❤ for 3 seconds until ❤▭ is flashing then release. ❤▭ is on steadily.
2. Use ◁ ▷ or single/tens digit button to select one of the preset scene numbers. The scene number selected inside the ❤▭ starts flashing.
3. Press OK to enter scene setup.
4. Use ◁ ▷ or single/tens digit button to choose one of the preset devices. The chosen device whose corresponding device number will be flashing and type of product will be on steadily.
5. Modify its ¡on¡ or ¡off¡ status using △ ▽ one by one. If any preset device needs to be cleared, press ▽ for 3 seconds.
6. Upon completion, press OK to save and exit. ❤▭ disappear simultaneously. Press ❤ to exit without saving.

3-4 Clearing Scene Command

If you would like to disregard preset scene command, clear the setup according to the following instructions:
1. Press ❤ for 3 seconds until ❤▭ is flashing then release. ❤▭ is on steadily.
2. Use ◁ ▷ or single /tens digit button to select one of the preset scene numbers. The scene number selected inside the ❤▭ starts flashing.
3. Keep pressing ▽ for 3 seconds, the device number ❶~⓰ shown on the LCD screen will be extinguished. It means the chosen scene number has been cleared.
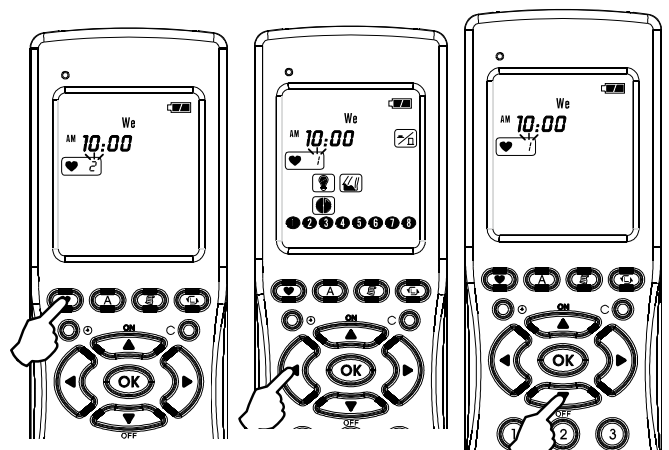

4. If other scene number needs to be cleared, repeat step 2 and 3.
5. Upon completion, press OK to save and exit. ❤▭ disappears simultaneously. Press ❤ to exit without saving.

4-1 Schedule Setup

Turn on the dim light and radio with soft music while going to bed at 9:00pm. When you fall asleep usually at 10:00pm, the dim light and radio will be turned off automatically when 10:00pm is due using schedule setup. In short, besides the devices included to the schedule function, this feature also allows the devices which are grouped to one of the scene numbers take actions automatically when preset time for operation is up.

1. Press ⒠ for 3 seconds until ⒠▭ is flashing then release. ⒠▭ is on steadily, which implies that the unit enters schedule setting.
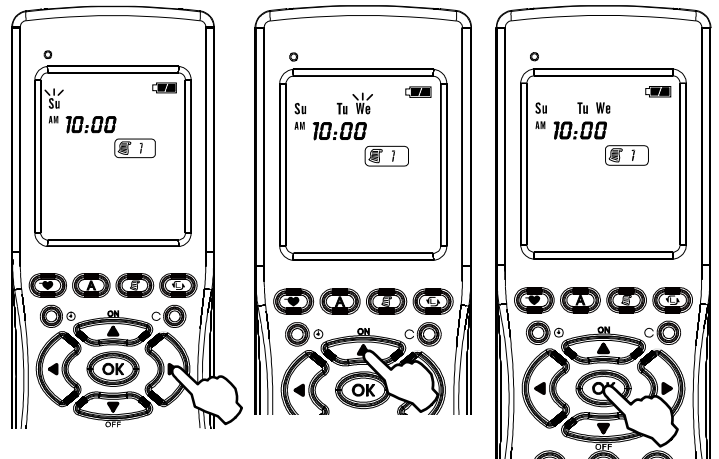2. Use ◁▷ or single /tens digit button to select one of the schedule numbers. Press OK.
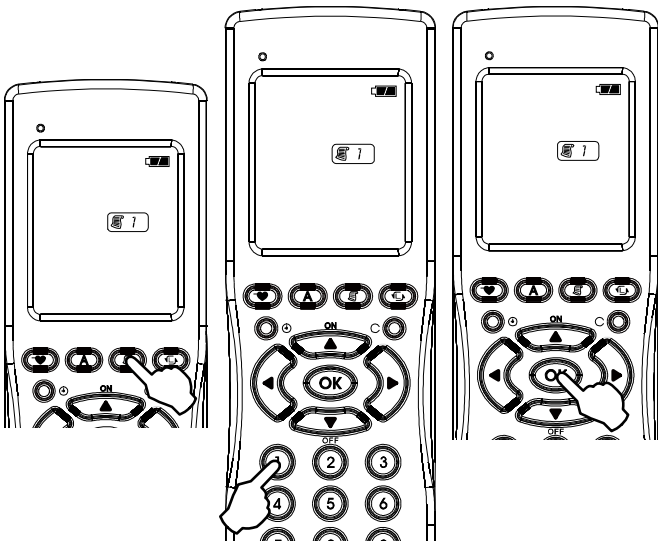
3. Either AM or PM starts flashing. Select AM or PM using △▽.
4. Pressing ▷ enables HH of HH:MM to flash. Further pressing ▷ enables MM of HH:MM to flash.
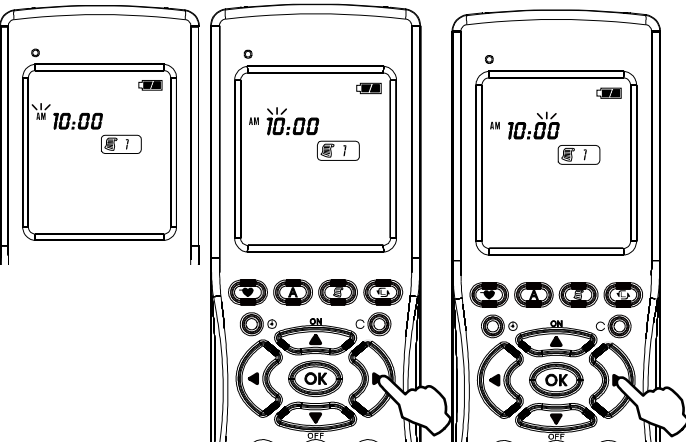

5. Use △ ▽ or ⓪ ~ ⑨ to adjust HH and MM. (**Note:** use ◁▷ to choose the item that needs to

be modified)
6. Press ▷ again to enter day of week selection. Use ◁▷ to choose day of week as needed.
    (**Note:** Keep pressing ◁ will return to step 3 for edition.)
7. Selection for day of week can be single or multiple choices. Use △ to confirm or ▽ to delete.
    (If planned schedule will be taken actions from Monday to Friday regularly, use △ to confirm one by one; while among fixed day of week - Monday to Friday, if you want to delete Monday, use ▽ to delete.)

8. Press OK. If the chosen time and day have been set prior with other schedule, ⒤ will be shown. Please reselect a day.
9. Use ◁▷ or single/tens digit button to select the devices which have been fixed. (The chosen device whose corresponding device number will be flashing and its corresponding symbol -- ⚏, 🕯, 🖾 or ⊕ will be on steadily.)
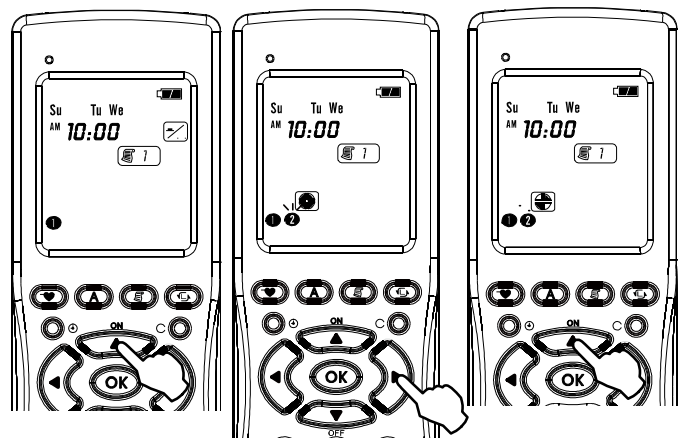
10. If including a scene number to schedule setup is needed, press ♥ and ♥ will start flashing. The scene number will be on steadily if it is already included in the schedule, else scene number will be flashing. Use ◁ ▷ or single/tens digit button to choose one of the scene numbers.
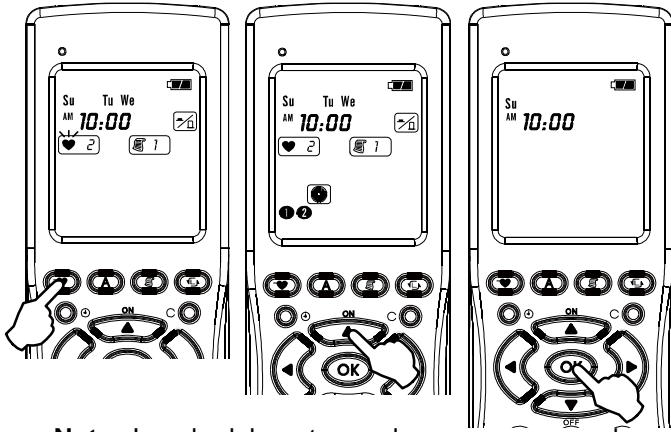

Note: In schedule setup, only one scene can be included.

11. Press △ to confirm which scene number will be included to the schedule setup.

12. Press ▽ for 3 seconds, the device number/scene number will be excluded from schedule setup if needed.

13. Upon completion, press OK to save and exit. Or press 📖 to exit without saving.

Note: ✳ (ALL) button is not suitable for use in schedule setup.

4-2 Auto Mode

This feature enables automatic execution of devices which have been included to schedule setup. By pressing Ⓐ button to enter auto mode, AUTO will be indicated on the LCD screen and the devices grouped to the schedule function will execute their preset status automatically when the preset time for operation is up. Press Ⓐ button again to exit the auto mode and AUTO will not be shown on the LCD screen. Beware AUTO is extinguished after replacing batteries, press Ⓐ button again to enable auto execution. In short, only when AUTO is appeared on the LCD screen, the schedule function would become effective.
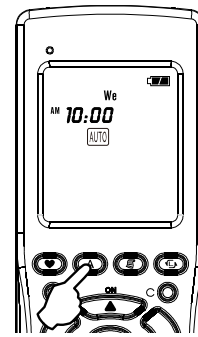
4-3 Clearing Schedule Command

1. Press 📖 for 3 seconds until 📖 is flashing then release. 📖 is on steadily, which implies that the unit enters schedule setting.

2. Use ◁ ▷ or single/tens digit button to select one of the schedule numbers that needs to be cleared.

3. Press ▽ for 3 seconds. The time for execution, day of week and ♥ will be off. It means the particular schedule number is cleared.

4. Repeat step 2 and 3 to clear the rest of schedule numbers one by one.

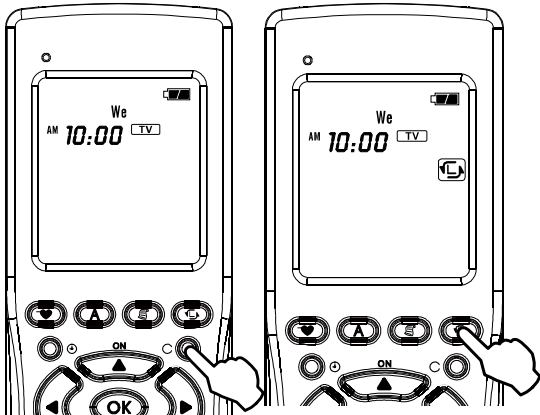5. Upon completion, press OK to save and exit. Or press 📖 to exit without saving.
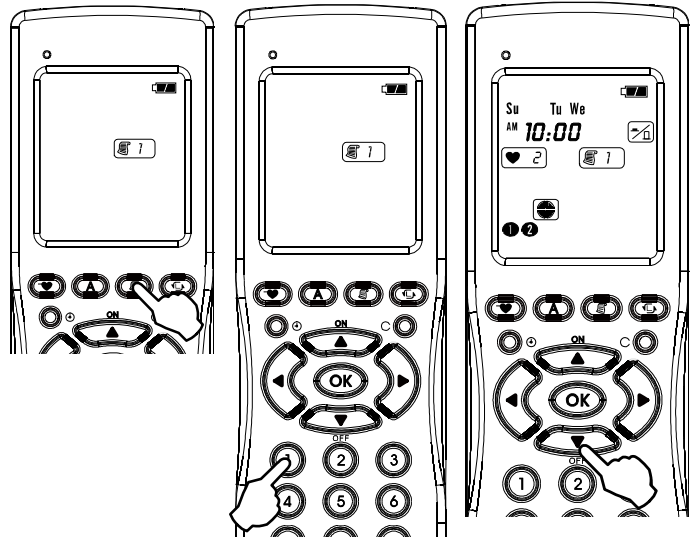
Note: Press any of setting buttons (e.g. ♥), the set up mode will remain for 3 seconds. If no command is given within this period of time, the set up will be extinguished automatically.
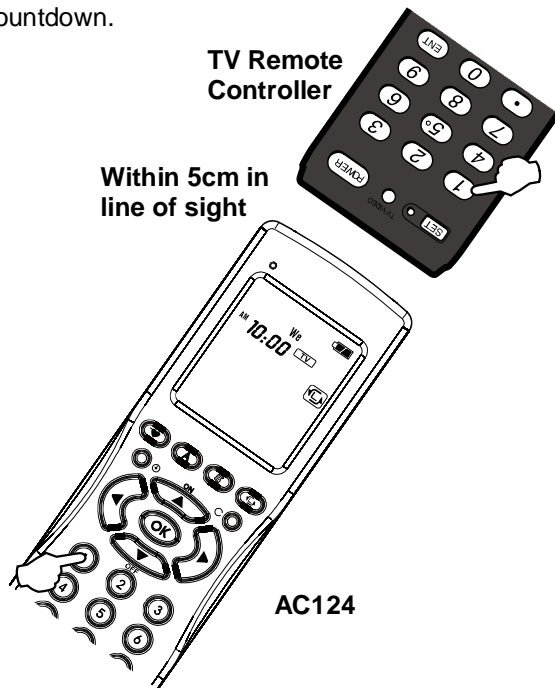
5-1 TV Mode

To learn the functions of TV Remote Controller (IR):

1. Press the button next to C once to switch the unit from RF mode to TV mode. TV is on.

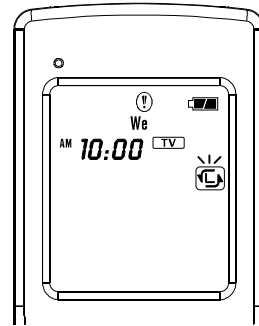2. Press 🔄 for 3 seconds until 🔄 is on steadily

then release. 🖵 is flashing, which implies that the unit enters learning mode. Learning timeout period is 30 seconds.

3. Press a button (△, ▽, ◁, ▷, OK, ⓪-⑨, ⁺¹⁰, ✳ or ♥) on the unit, 🖵 is on steadily, hold the button while pressing a corresponding button of TV remote controller. Release both buttons, 🖵 is flashing, which implies that the unit is ready for learning next button and resumes 30 seconds countdown.

TV Remote Controller

Within 5cm in line of sight

AC124

4. If learning fails, ⓘ will be shown.

   Note: If button pressing is too long during learning process, IR signal will be repeated when using the unit to control TV (e.g. press button 2 on the unit, the TV received 22).

5. To learn next button, repeat step 1-4.
6. Upon completion, press 🖵 to save and exit learning mode.

   Note: The unit cannot replace all the functions of TV remote controller.

5-2 TV Mode Operating Instructions

1. Press the button next to ⟲ once to switch the unit from RF mode to TV mode, ⎡TV⎤ is on.
2. Press a learned button (△, ▽, ◁, ▷, OK, ⓪-⑨, ⁺¹⁰, ✳ or ♥) on the unit to control TV.
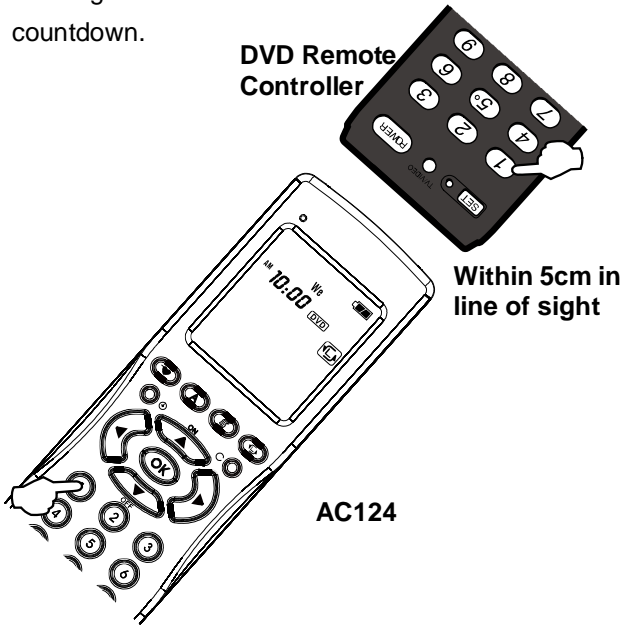
6-1 DVD Mode

To learn the functions of DVD Remote Controller (IR):

1. Press the button next to ⟲ twice to switch the unit from RF mode to DVD mode. ⎡DVD⎤ is on.
2. Press 🖵 for 3 seconds until 🖵 is on steadily then release. 🖵 is flashing, which implies that the unit enters learning mode. Learning timeout period is 30 seconds.
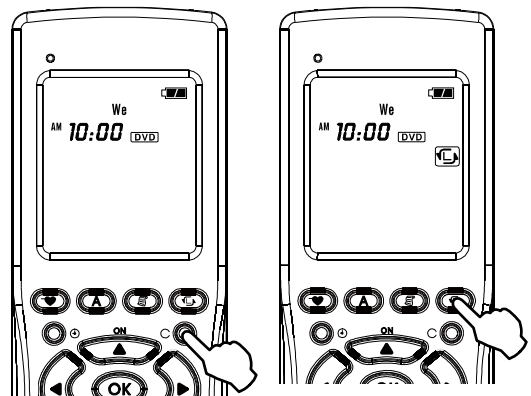

3. Press a button (△, ▽, ◁, ▷, OK, ⓪-⑨, ⁺¹⁰, ✳ or ♥) on the unit, 🖵 is on steadily, hold the button while pressing a corresponding button of

DVD remote controller. Release both buttons, 🔁 is flashing, which implies that the unit is ready for learning next button and resumes 30 seconds countdown.

DVD Remote Controller

Within 5cm in line of sight

AC124

4. If learning fails, ⓘ will be shown.

   Note: If button pressing is too long during learning process, IR signal will be repeated when using the unit to control DVD (e.g. press button 2 on the unit, the DVD received 22).
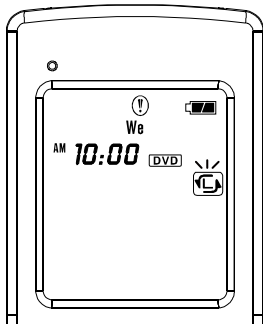
5. To learn next button, repeat step 1-4.
6. Upon completion, press 🔁 to save and exit

learning mode.

Note: The unit cannot replace all the functions of DVD remote controller.

6-2 DVD Mode Operating Instructions

1. Press the button next to ◯ twice to switch the unit from RF mode to DVD mode, DVD is on.
2. Press a learned button (△, ▽, ◁, ▷, OK, ⓪~⑨, +10, ✱ or ❤) on the unit to control DVD.

7-1 Power Setting Mode

1. Press the button next to ◯ three times to switch the unit from RF mode to power setting mode. ▬ flashing implies that the unit is in power setting mode.

   Note: Normal power mode is default setting.
2. Press △ to set the unit in normal power mode ▬; while pressing ▽ for power saving mode ▬.
3. Wait 30 seconds to return to RF mode automatically or alternatively press ◯ to exit power setting mode.

SPECIFICATIONS

Battery Type	1.5V AAA alkaline battery x 4 pieces
Battery Life	About 12 months, @25℃ standby mode
Operating Frequency	868.30MHz or 923.00MHz

Specifications are subject to change without prior notice.

A501111256R

Operation Reference

Normal operation			
Type of Product	**Operation**	**Command**	**Action of Device**
🔲 On/Off Module	△	Remote on	On
	▽	Remote off	Off
💡 Lamp Module	△	Remote on	On
	▽	Remote off	Off
	▷	Dimmer level up	Upgrade one degree of brightness (Only applicable for lamp module at ON status)
	◁	Dimmer level down	Reduce one degree of brightness (Only applicable for lamp module at ON status)

⬚ Curtain Switch	△	Up	Rolling up
	▽	Down	Rolling down
	OK	Stop	Stop rolling
⬚ Alarm System	△ + OK	Arm	Enter fully arm
	▷ + OK	Part-arm 1	Enter part-arm 1
	▽ + OK	Disarm	Disarm
	◁ + OK	Part-arm 2	Enter part-arm 2
	Note: After the first button (△,▷,▽ or ◁) is pressed, then press OK.		

Scene and schedule setup			
Type of Product	**Operation**	**Command**	**Action of Device**
⬚ On/Off Module	△	Remote on	On
	▽	Remote off	Off
⬚ Lamp Module	Use △▽ to choose on/off action or brightness of lighting		
⬚ Curtain Switch	△	Up	Rolling up
	▽	Down	Rolling down
⬚ Alarm System	Use △ ▽ to choose mode	Arm	Fully arm
		Part-arm 1	Part-arm 1
		Disarm	Disarm
		Part-arm 2	Part-arm 2

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

WARNING:
Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

Contact your local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new once, the retailer is legally obligated to take back your old appliance for disposal at least for free of charge.