

Youshiko YC9416
Radio Control Projection Clock & Weather station

PROJECTION CLOCK USER MANUAL



One Step Automatic Set Up:

Connect main colour display indoor unit with power supply and insert required batteries in the sensor and wait for clock to **self set automatically** by MSF Radio control system, with in few minutes to few hours or maximum by 05:00 am, depending on the signal or your location . (After this you never have to do anything, Automatic time change for Spring & Autumn and automatic time checks). In some cases it may take up to 24H to self set everything.

Keep the clock display unit well away from TV / Computer / Wifi Hub / Mobile phones etc to avoid any interference .

Please Note:

- 1. When clock is searching for Radio control signal, Colour Display will go dim for few mins, at this stage please don't press any buttons, once weather station receive the radio control signal , Bright colour display will come back on automatically.**
- 2. It may take several attempts before weather station can or pick the radio control signal over the course of 24h from the start.**
- 3. We recommend a minimum distance of 2.5 meters (8.2Feet) to all sources of interference, such as televisions or computer monitors or mobile phones or Wi-Fi Hub etc.**
- 4. If you use batteries in the main display unit only , the colour display will not be on all the time.**

5. please use power supply for continuous colour display .

6. You may set the date display as Month/Date or Date/Month, for this please follow the instructions for Manual time setting .

We recommend to use Duracell or Energizer Alkaline Power Batteries for best results.

Frequently Asked Questions:

► 1 : Why does the screen turn off after powering on the projection clock? And sometimes during the night? What is RCC or MSF?

A : After powering on the projection clock, it will soon activate RCC function (Radio-controlled automatic time-calibration, abbr. RCC or MSF). During the process, the display screen will automatically turn off to reduce other interference. After the process (in 7 minutes), the screen will light up again.

Every night, at 1:00am, 2:00am, 3:00am, it will start RCC. If the reception of RCC signal fails due to signal interference or weak signal, it will start again at 4:00am. If fails again, it will start again at 5:00am. After 5:00am, whether successful or not, it will not automatically start RCC.

During the RCC process (in 7 minutes), if you want to light up the screen, please press "SNOOZE", at the same

time RCC will continue. If you want to stop RCC, please hold " $\overline{\text{C/F}}$ " for 3 seconds, RCC will stop and the screen will light up.

If you want to activate RCC manually, please hold " $\overline{\text{C/F}}$ " for 3 seconds, the clock will start RCC.

If you want to completely turn off RCC function, please long press "SET" and then "+" or "-" to turn the flashing part to "OFF". RCC function won't turn on automatically.

► 2 : Why does the weather station not display the outdoor temperature? Why is there a horizontal line on the screen? Why does the temperature and humidity data on the screen show inconsistencies?

A: In order to ensure that the device can receive signals quickly, please follow the steps below:

Power on the weather station first.

Then power on the sensor.

Confirm that the clock and the sensor are in the same channel.

After establishing a connection, the sensor transmits data every 60 seconds to update the temperature and humidity data.

If the connection failed, please hold " $\overline{\text{CH}}$ " for 2-3 seconds to clean up the data and restart to receive the data. And press the button "TX" on the back of the sensor to transmit a signal. The connection will be re-established.

If there is a horizontal line on the screen (not displaying the temperature and the humidity), please ensure your station and the sensor are in the same channel. And if you have only 1 sensor, please deactivate the automatic channel switching by pressing " $\overline{\text{CH}}$ ", the "loop" mark will disappear in the channel zone on the screen.

Please note that the transmitting distance is within about 60m/196feet. The displayed temperature and humidity will be more accurate after 3 hours. If there is some error, please wait about 3 hours. Indoor and outdoor temperature error within $\pm 1^{\circ}\text{C}$, indoor and outdoor humidity error within $\pm 5\%$.

► 3 : Can this projection clock powered by batteries?

A: No, the projection clock can be powered only by plugging in the adapter (in the package). The button battery in the product is only used to record historical data. It cannot power the clock.

Features:

- ▶ MSF Radio control time function
- ▶ Perpetual Calendar Up to Year 2099
- ▶ Time in optional 12/24-hour format.
- ▶ Two daily alarms
- ▶ Automatic snooze function

Humidity: Indoor & Outdoor measurable range: 20%RH ~ 95%RH

- ▶ Temperature:
 - Indoor temperature measurement ranges: -9.9°C (15°F) to 50°C (122°F)
 - Outdoor temperature measurement ranges: -40°C (-40°F) to 70°C (158°F)
 - Temperature alternatively in °C or °F.
 - Outdoor thermometer and frost alert
- ▶ Minimum/maximum display for air humidity and temperature
- ▶ Outdoor dew point temperature and heat index query
- ▶ Three level display mold risk
- ▶ Wireless Outdoor Sensor:
 - Wall Mount or Table Stand
 - 433.92MHz RF transmitting frequency
 - 60meters transmission range in an open area

▶ The weather forecasting function

▶ Colorful backlight function

▶ Power Supply:

Weather

Station:

Battery: 1x CR2032

DC-POWER: AC5V 150mA

Wireless Remote Sensor:

Battery: 2 x LR06 AA

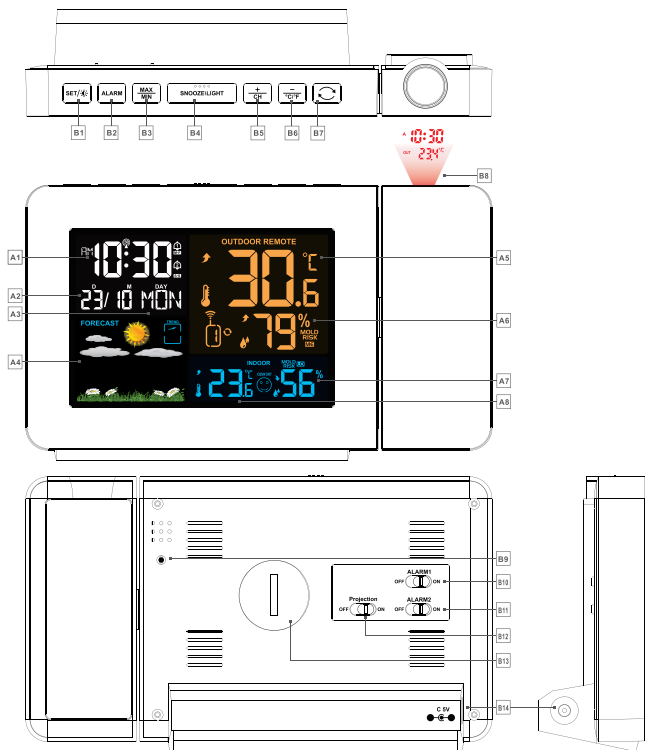
Please note: Batteries are not included

F.Y.I.:

The wireless remote sensor can work at -30°C to +70°C. Please choose the right battery according to the limit temperature of the wireless sensor:

Alkaline zinc manganese battery can work at -20°C to +60°C Polymer lithium ion rechargeable battery can work at -40°C to +70°C.

Projection Clock / Weather station Appearance:



Part A-Positive LCD

A1: Time

A2: Calendar

A3: Week

A4: Weather Forecasting

A5: Outdoor Temperature

A6: Outdoor Humidity

A7: Indoor Humidity

A8: Indoor Temperature

Part B – Back button and power

B1: "SET" button

B2: "ALARM" button

B3: "MAX/MIN" button

B4: "SNOOZE/LIGHT" button

B5: "+CH" button

B6: "-CH" button

B7: "Projection" button

B8: Projection display

B9: Temperature sensor

B10: Alarm1 on/off shift switch

B11: Alarm2 on/off shift switch

B12: Projection on/off shift switch

B13: Battery compartment

B9: Temperature sensor

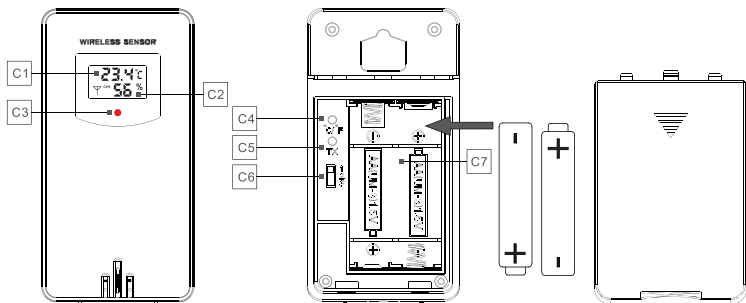
B10: Alarm1 on/off shift switch

B11: Alarm2 on/off shift switch

B12: Projection on/off shift switch

B13: Battery compartment

B14: Power supply socket



Part C –Wireless Remote Sensor:

- C1: LCD display – Temperature
- C2: LCD display – Humidity
- C3: Transmit signal LED
- C4: "°C/°F" button
- C5: "TX" button
- C6: "CHANNEL 1 or 2 or 3" switch
- C7: Battery compartment

Initial operation:

- ▶ Open Weather Station battery compartment cover
- ▶ According to the appearance of the Weather Station, the power adapter is inserted from the B14 position, and the power supply of the power adapter is also noted.
- ▶ When the Weather Station is successfully connected to the power supply, all the icon on the LCD display will briefly light up for 3 seconds, and you will hear a beep tone, and detect indoor temperature and humidity.
- ▶ At the same time, according to the battery slot prompt of the appearance of the weather station B13, dial out the battery insulation sheet, or unscrew the battery cover according to the OPEN direction label to insert the battery. Screw the battery cover back.
- ▶ The Weather Station will now start to make a connection to the Remote Sensor. This operation takes about 3 minutes and is displayed by a flashing reception RF antenna symbol in the "OUTDOOR REMOTE" display area on the receiver.
- ▶ This now, replace Wireless Remote Sensor battery compartment cover, according to the channel to be set, the channel of the sensor is set through the shift switch of the C6 position of the sensor, and Insert 2 x AA batteries observing polarity ["+" and "-" marks]
- ▶ When the wireless sensor is loaded into the battery, all the icon on the LCD display will briefly light up for 3 seconds, and detect the temperature and humidity of the sensor, At the same time, LED lights flicker once, the wireless sensors automatically transmit wireless signals.
- ▶ When the Wireless Sensor is launched, the Weather Station alarm automatically receives its signal, and the OUTDOOR REMOTE column displays the temperature and humidity values. At the same time, the number of channels is shown in the icon of the sensor.
- ▶ The time of automatically receiving the wireless sensor signal after the weather station is started is 3 minutes. In 3 minutes, if all the channels are received, the radio control time receiving mode will be automatically entered, and the backlight will be extinguished automatically.

F.Y.I.:

- ▶ The Weather Stations can receive up to 3 channels of wireless sensors.
- ▶ The CR2032 battery is the backup power source for the clock / weather station only . When the power supply of the power adapter is not connected to the weather station, the weather station's display will automatically not be displayed.
- ▶ Note that when you enter the radio control time receiving mode, the backlight will automatically turn off. This is a normal phenomenon. After the radio control time receiving reception, the backlight will be automatically lit.

Reception of the Radio signal:

- ▶ The clock automatically starts the **MSF** signal search after 7 minutes of any restart or changing of new fresh

batteries. The radio mast icon starts to flash.

- ▶ At 1:00 /2:00 / 3:00 am, the clock automatically carries out the synchronization procedure with the **MSF** signal to correct any deviations to the exact time. If this synchronization attempt is unsuccessful (the radio mast icon disappears from the display), the system will automatically attempt another synchronization at the next full one hour. This procedure is repeated automatically up to total 5 times.
- ▶ To start manual **MSF** signal reception, press and hold " $\overline{\text{C/F}}^{\ominus}$ " button more than 3 seconds. If no signals received within 7 minutes, then the **MSF** signal search stops (the radio mast icon disappears) and start again at the next full one hour.
- ▶ During the radio control time receiving reception to stop searching radio signal, press and hold " $\overline{\text{C/F}}^{\ominus}$ " button more than 3 seconds

F.Y.I.:

- ▶ A flashing radio mast icon indicates that the **MSF** signal reception has started
- ▶ A continuously displayed radio mast icon indicates that the **MSF** signal was received successfully
- ▶ We recommend a minimum distance of 2.5 meters to all sources of interference, such as televisions or computer monitors
- ▶ Radio reception is weaker in rooms with concrete walls (e.g.: in cellars) and in offices. In such extreme circumstances, place the system close to the window.
- ▶ During the radio control time receiving mode, only the " $\overline{\text{C/F}}^{\ominus}$ " button function, other button operation has no function, if you need to carry out other functions of operation, please press and hold the " $\overline{\text{C/F}}^{\ominus}$ " button more than 2 seconds to exit the RC receiving mode.

Manual time setting:

- ▶ Press and hold down the "**SET/** $\overline{\text{C/F}}^{\ominus}$ " button more than 3 seconds, the RCC icon display starts to flash. Use the " $\overline{\text{C/F}}^{\ominus}$ " and " $\overline{\text{C/F}}^{\ominus}$ " buttons to set the radio control time receive function to ON or OFF.
- ▶ Press "**SET/** $\overline{\text{C/F}}^{\ominus}$ " to confirm your setting, the 24Hr display starts to flash. Use the " $\overline{\text{C/F}}^{\oplus}$ " and " $\overline{\text{C/F}}^{\ominus}$ " buttons to set the time format to 24Hr mode or 12Hr mode.
- ▶ Press "**SET/** $\overline{\text{C/F}}^{\ominus}$ " to confirm your setting, the Hour display starts to flash. Use " $\overline{\text{C/F}}^{\oplus}$ " and " $\overline{\text{C/F}}^{\ominus}$ " buttons to set the correct hour.
- ▶ Press "**SET/** $\overline{\text{C/F}}^{\ominus}$ " to confirm your setting, the Minute displays starts to flash. Use " $\overline{\text{C/F}}^{\oplus}$ " and " $\overline{\text{C/F}}^{\ominus}$ " buttons to set the correct minute.
- ▶ Press "**SET/** $\overline{\text{C/F}}^{\ominus}$ " button to confirm your setting, the Year display 2018 starts to flash, Use " $\overline{\text{C/F}}^{\oplus}$ " and " $\overline{\text{C/F}}^{\ominus}$ " buttons to set the correct year.
- ▶ Press "**SET/** $\overline{\text{C/F}}^{\ominus}$ " button to confirm your setting, the Month display starts to flash. Use " $\overline{\text{C/F}}^{\oplus}$ " and " $\overline{\text{C/F}}^{\ominus}$ " buttons to set the correct month.
- ▶ Press "**SET/** $\overline{\text{C/F}}^{\ominus}$ " button to confirm your setting, the Date display starts to flash. Use " $\overline{\text{C/F}}^{\oplus}$ " and " $\overline{\text{C/F}}^{\ominus}$ " buttons to set the correct date.
- ▶ Press "**SET/** $\overline{\text{C/F}}^{\ominus}$ " button to confirm your setting, the Month and Date icon display starts to flash. Use " $\overline{\text{C/F}}^{\oplus}$ " and " $\overline{\text{C/F}}^{\ominus}$ " buttons to set the date display on Month/Date or Date/Month.
- ▶ Press "**SET/** $\overline{\text{C/F}}^{\ominus}$ " button to confirm your setting, the weather forecast pattern display starts to flash. Use " $\overline{\text{C/F}}^{\oplus}$ " and " $\overline{\text{C/F}}^{\ominus}$ " buttons to select the current weather pattern.
- ▶ Press "**SET/** $\overline{\text{C/F}}^{\ominus}$ " to confirm your setting and to end the setting procedures, enter the clock mode.

F.Y.I.:

- ▶ After 30 seconds without pressing any button, the clock switches automatically from Set Mode to Normal Time Mode.

Setting the daily alarms:

- ▶ Press "**ALARM**" button can switch the display ALARM1 time or ALARM2 time.
- ▶ Press and hold down "**ALARM**" button more than 3 seconds until Alarm 1 Time hour display of the Alarm 1 time starts to flash. Use the " $\overline{\text{C/F}}^{\oplus}$ " and " $\overline{\text{C/F}}^{\ominus}$ " buttons to set the required hour.
- ▶ Press "**ALARM**" button to confirm your setting, The Minute display of the Alarm 1 time starts to flash. Use the " $\overline{\text{C/F}}^{\oplus}$ " and " $\overline{\text{C/F}}^{\ominus}$ " buttons to set the required minute.
- ▶ Press "**ALARM**" button to confirm your setting, The Repeat icon "M-F" of the Alarm 1 time starts to flash. Use the " $\overline{\text{C/F}}^{\oplus}$ " and " $\overline{\text{C/F}}^{\ominus}$ " buttons to set the alarm repeat in "M-F" or "S-S" or "M-F" and "S-S".
- ▶ Press "**ALARM**" button to confirm your setting, the snooze time of the Alarm1 starts to flash. Use the " $\overline{\text{C/F}}^{\oplus}$ " and " $\overline{\text{C/F}}^{\ominus}$ " buttons to set the minute of snooze you need.
- ▶ Press "**ALARM**" button to confirm your setting, The Hour display of the Alarm 2 time starts to flash. Use the " $\overline{\text{C/F}}^{\oplus}$ " and " $\overline{\text{C/F}}^{\ominus}$ " buttons to set the required hour.

- ▶ Press "**ALARM**" button to confirm your setting, The Minute display of the Alarm 2 time starts to flash. Use the " $\overset{+}{\text{CH}}$ " and " $\overset{-}{\text{CHF}}$ " buttons to set the required minute.
- ▶ Press "**ALARM**" button to confirm your setting, The Repeat icon "M-F" of the Alarm 2 time starts to flash. Use the " $\overset{+}{\text{CH}}$ " and " $\overset{-}{\text{CHF}}$ " buttons to set the alarm repeat in "M-F" or "S-S" or "M-F" and "S-S".
- ▶ Press "**ALARM**" button to confirm your setting, the snooze time of the Alarm2 starts to flash. Use the " $\overset{+}{\text{CH}}$ " and " $\overset{-}{\text{CHF}}$ " buttons to set the minute of snooze you need.
- ▶ Press "**ALARM**" button to confirm your setting and to end the setting procedure.

F.Y.I.:

- ▶ After 30 seconds without pressing any button the clock switches automatically from setting mode to Normal clock mode.
- ▶ The alarm will sound for 2 minutes if you do not deactivate it by pressing any button. In this case the alarm will be repeated automatically after 24 hours.
- ▶ The alarm is repeatedly set to M-F, the alarm function will be activated from Monday to Friday, the Saturday and Sunday will be invalid. The alarm is repeatedly set to S-S, and the alarm function will be activated on Saturday and Sunday, and will expire from Monday to Friday. When the alarm is repeatedly set to display both M-F and S-S, the alarm function will be activated throughout the week.
- ▶ Rising alarm sound (crescendo, duration: 2 minutes) changes the volume 4 times whilst the alarm signal is heard.
- ▶ the snooze time setting range: 5 ~ 60MIN, OFF, when set to OFF, means no snooze function. Snooze time unit is minutes.

The alarm for opening and closing

- ▶ The alarm 1 or alarm 2 shift switch is pushed in the "ON" position, LCD display the " 🔔 " or " 🔔 " icon, the alarm 1 or alarm 2 function is open, The repeat of alarm icon at the same time is also displayed.
- ▶ Product back of the alarm shift switch is pushed in the "OFF" position, the " 🔔 " or " 🔔 " icon disappears, the alarm 1 or alarm 2 function is close

F.Y.I.:

- ▶ The alarm will sound for 2 minutes if you do not deactivate it by pressing any button. In this case the alarm will be repeated automatically after 24 hours.
- ▶ Rising alarm sound (crescendo, duration: 2 minutes) changes the volume 4 times whilst the alarm signal is heard.

Switching off the alarm signal

- ▶ Press any button except the "**SNOOZE/LIGHT**" button to stop the alarm signal. It is not necessary to reactivate the alarm. It switches itself automatically to the alarm time which has already been set.

Snooze function:

- ▶ Press the "**SNOOZE/LIGHT**" button the alarm signal sounds to get to SNOOZE mode. After waiting for snooze time, the alarm signal will ring again.
- ▶ In snooze mode, press any button except the "**SNOOZE/LIGHT**" button or press hold the "**SNOOZE/LIGHT**" button for 2 seconds to exit the snooze mode.

Displaying temperature/humidity and temperature/humidity trend

- ▶ The current indoor temperature/humidity and the temperature/humidity trend (indoors) are shown in the LCD display.
- ▶ After successfully connecting with the remote sensor, the weather station can display the remote temperature/humidity and the temperature/humidity trend (remote)
- ▶ You may see the following displays:



The temperature/humidity is rising.



The temperature/humidity is falling.

No display: The temperature/humidity is remaining constant.

°C or °F temperature display

- ▶ The temperature is displayed either in °C or °F. Briefly pressing the " $\overset{-}{\text{CHF}}$ " button allows you to switch between the individual modes.

Wireless sensor transmission:

- ▶ When the Weather Station successfully receives signals from the Wireless Sensor, the temperature and humidity of the "**OUTDOOR REMOTE**" are displayed on the "**OUTDOOR REMOTE**" column of the weather station.

- ▶ The Weather station can connect up to 3 channel wireless sensor registration, the use of multiple wireless sensor, the wireless sensor channel cannot choose the same channel at the same time (a total of 1, 2, 3 channel can choose)
- ▶ Press the "CH" button can switch the display of different channels of outdoor temperature and humidity, when displaying the symbol "🔄", will display the channel every 5 seconds automatically switch a channel
- ▶ If the Weather Station failed to receive transmission from outdoor sensor ("--" display on the LCD), press and hold "CH" button for 3 seconds to receive transmission manually. the outdoor temperature will show an animation of the RF antenna symbol. the Weather Station will re receive the wireless signal of the outdoor sensor.

One sensor included and extra sensors you can buy it separately.

F.Y.I.:

- ▶ when the wireless sensor set up different channels, the weather station "OUTDOOR REMOTE" also want to switch to the same channel. When there is no wireless sensor signal transmission on the channel, "--" will be displayed in the channel of the weather station

Maximum/Minimum Temperature/Humidity and Dew point temperature and heat index

- ▶ To toggle indoor/ outdoor remote maximum, minimum temperature data, outdoor remote dew point temperature date, heat index, press the "MAX/MIN" button:
 - Once to display the maximum temperature values of indoor and outdoor remote.
 - Twice to display the minimum temperature values of indoor and outdoor remote
 - Three times to display the dew point temperature values of outdoor remote
 - Four times to display the heat index values of outdoor remote
 - Five times to return to the current temperature levels
- ▶ In view mode, press "CH" button to switch to display data from other channels of outdoor remote.
- ▶ To reset the maximum and minimum temperature, press and hold down the "MAX/MIN" button more than 2 seconds. This will reset all minimum and maximum data recorded to the current displayed values.

F.Y.I.:

- ▶ If the temperature reading is below ranges, the LL.L will be displayed. If the temperature reading is above ranges, the HH.H will be displayed.

Outdoor Remote temperature frost alert

- ▶ When the temperature of outdoor is -1°C to $+3^{\circ}\text{C}$ or $+30^{\circ}\text{F}$ to $+37^{\circ}\text{F}$, the frost alarm will be activated, the frost alert icon 🌨️ flashing.

Outdoor Remote MOLD RISK

Moldy risk total 3 levels: LO ME and HI, when the risk level is HI, please pay attention to the items and the room to pay attention to dehumidification

Low battery:

- ▶ If the "INDOOR" column is display the battery icon 🔋, you need to replace the weather station's battery as soon as possible,
- ▶ If the "OUTDOOR REMOTE" column is to display the battery icon 🔋, you need to replace the wireless sensor battery of your channel as soon as possible based on the channel display.

The weather forecast:

- ▶ The weather station calculates a weather forecast for about the next 12 hours based on the barometric pressure trend. Of course this forecast can't compare to that of professional weather services supported by satellites and high performance computers, but merely provides an approximate indication of current developments. Please take the weather forecast from your local weather forecasting service into account as well as the forecast from your weather station. If there are discrepancies between the information from your device and from the local weather forecasting service, please take the advice of the latter as authoritative.
- ▶ The weather station displays the following weather symbols:



sunny	slightly cloudy	cloudy	rainy	Heavy rainy	Snowy
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- ▶ The weather station can display the barometric pressure trend.
- ▶ You may see the following displays:



The barometric pressure will rise.






The barometric pressure will remain constant.



The barometric pressure will fall.


Projection description

- ▶ The projection shift switch is pushed in the "ON" position, the projection display will light up.
- ▶ The projection shift switch is pushed in the "OFF" position, the projection display will be closed.
- ▶ Press and hold  button more than 3 seconds set the brightness of the projection to low. Press and hold the  button for 3 seconds, and the brightness will change back to high.
- ▶ The effective distance of projection display is 1 meters to 3 meters. in the night, there is no light wall or ceiling, can clearly display the contents of a projection.
- ▶ The contents of the projection display are time and indoor or temperature composition, wherein the temperature will be displayed every 5 seconds for indoor / outdoor, has been circulating
- ▶ Press  button To change the projection display direction, 2 angles can be changed.

F.Y.I.:

- ▶ During the reception of the time radio wave signal, the projection display will be automatically closed to prevent the interference of the radio wave.

Background lighting

- ▶ When the power supply of the product is inserted into the power supply adapter, the battery will automatically disconnect the power supply, and the backlight will always be bright. Press the **SET/ ** button to adjust the brightness of the backlight, you can adjust the 4 state: 3 different brightness backlight and close the backlight. Users can choose according to the personal preferences of different brightness backlight or turn off the backlight. Turn off backlight when you can press the "SNOOZE/LIGHT" field to light the backlight 15 seconds

F.Y.I.:

- ▶ During the reception of the time radio wave signal, the backlight will be automatically closed to prevent the interference of the radio wave.

Battery replacement:

Use alkaline batteries only. Observe correct polarity, Low batteries should be changed soon to avoid the damage resulting from a leaking battery. Batteries contain harmful acids. Wear protective glasses and gloves when handling with leaked batteries.

Please do not dispose of old electronic devices and empty batteries in household waste. To protect the Environment, take them to your retail store or to appropriate collection sites according to national or local recycling centre.

All enquires: service@youshiko.co.uk