

Thank you for purchasing the new generation of 7" TFT weather station & photo album. Designed and engineered with the state-of-art technology and components, this instrument will provide accurate and reliable measurement of weather forecast, wind speed/direction, rainfall and indoor/outdoor temperature/humidity as well as a digital photo album. Read this manual carefully to fully explore the features and functions of the new product.

The package includes

- Photo Frame (Main unit)
- Infrared (IR) remote control
- Wind meter (built-in thermo-hygrometer)
- Rain gauge
- Adapter

Additional tools needed for installation

- Small Phillips screwdriver
- Hexagonal Key
- Electric drill
- Pencil
- Level
- Mast, 1 – 1.25 inch (2.54 – 3.18 cm) in diameter (to mount the anemometer)

Buttons on the photo frame

Press Functions

POWER	Turn on or off the unit
UP/DOWN	Move up or down in the setup mode
LEFT/RIGHT	Select photos or move left or right in the SETUP mode
Enter	Enter the display mode or confirm setting in setup mode
Exit	Exit the current display mode

(When display is off, press any buttons except [POWER] to turn on the weather display mode for around 1 minute)

Buttons on the IR remote control

Press Functions

POWER	Turn on or off the unit
PHOTOS	Enter photo mode
WEATHER	Enter weather mode
WEATHER + PHOTOS	Enter weather & photo mode
CALENDAR	Enter calendar mode
SETUP	Enter setup mode
SLIDESHOW	Enable or disable slideshow function (only available in photo mode)
MENU	Enter menu mode
ENTER	Enter the display mode or confirm setting in setup mode
Exit	Exit the current display mode
UP/DOWN	Move up or down in the setup mode
LEFT/RIGHT	Select photos or move left or right in the display mode
ZOOM	Zoom in the photo
ROTATE	Rotate the photo

(When display is off, Press any buttons except [POWER] on the remote control to turn on display for around 1 minute)

INITIAL SETUP

BATTERY & ADAPTER INSTALLATION

Photo Frame:

Main Power Source: Plug in the 5.0V adapter into the adapter socket on the right for basic operation

IR Remote Control

Battery (CR2025) is included in the IR remote control. For initial setup, pull out the battery insulation sheet from the bottom of the IR remote control.

To replace the battery, follow the instruction on the back of the IR remote control to pull out the battery door. Follow the battery polarity and replace a new CR2025 battery. Close the battery door.

Installation

The weather station operates at 915MHz and does not require wire installation among the component parts. To ensure successful installation and the best performance, we recommend you follow the installation instructions in the order they appear in this manual.

1. Selecting a location for the anemometer

Select a mounting location for the anemometer that is:

- Outdoors, not blocked on top or sides, so wind can freely reach the anemometer
- Within 75 meter open area from the monitor. Reduce distance if obstacles is between the anemometer & the monitor

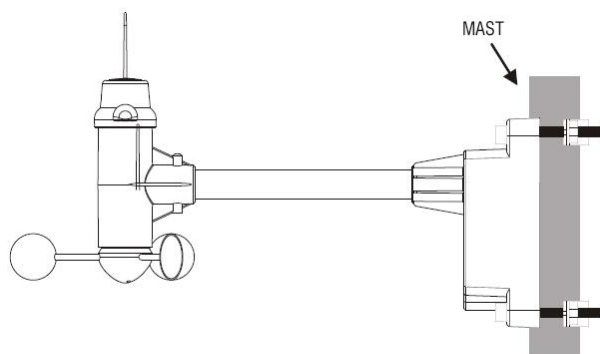
The best location for the anemometer is usually mounted on a mast in an open area where wind is not blocked on top or sides, or above roof level on the building where the monitor is located.

2. Mounting the anemometer

Important: Before mounting, be sure the monitor & anemometer are within the effective transmission range.

Note: To mount the anemometer, you need a mast (not supplied) about 1 – 1.25 inches (2.54 – 3.1 cm) in diameter, and the hardware necessary to fasten it to the mounting location. If you previously installed such a mast (for mounting antenna, for example), you can mount the anemometer on that mast.

1. If necessary, mount and ground a mast as directed in the instructions provided by the mast.
2. Place the supplied U-shape metal plates around the mast. Insert 4 pieces of the supplied Hex screws through the holes of the U-shape plates and the holes on the anemometer's mounting bracket.
(The wind vane is above the wind cup and the metal bar of the anemometer is in horizontal level)
3. Tighten the supplied Hex nut onto both ends of each screw

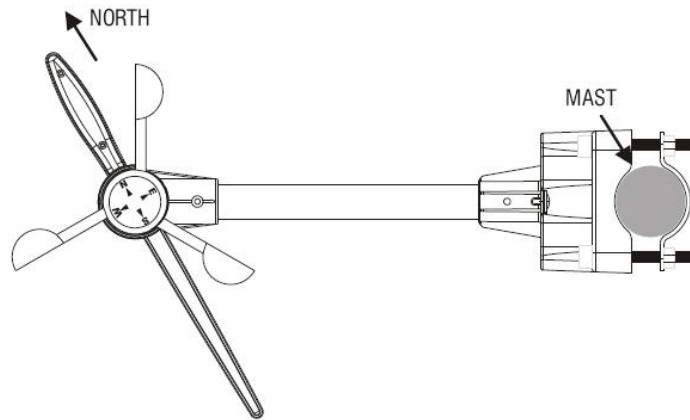


4. Calibrating the anemometer & installing batteries

After mounting the anemometer, follow these steps to calibrate the wind direction so that the anemometer properly measures the wind direction and transmit to the monitor. Be sure battery has been removed from the anemometer before the calibration.

Important: The same calibration is needed for the first set up and every battery replacement.

1. After mounting the anemometer, loosen the screws on the battery door with a small screwdriver and open the battery door.
2. Use the compass on the anemometer and turn the wind vane so it is pointing due north.



3. Hold the wind vane pointing due north and do not allow it to turn. Insert 2 pieces of AA batteries according to the polarity indicated. The red LED indicator above the battery cover of the anemometer will flash few times right after battery installation. Be sure the vane is pointing due north at the moment when red LED flashes and the calibration is now completed. Replace the battery cover and tighten the screws.
4. If the wind vane is not pointing due north when the red LED first flashes, remove batteries and repeat step 2 & 3.
5. Go to "SET UP" mode, select "SEARCH NOW" in the "WIRELESS SENSOR RECEPTION" section and exit. Wind direction, wind speed, wind chill & channel-1 temperature/humidity readings will appear within 2 minutes if the RF transmission is successful.
6. If the wind reading does not appear after 2 minutes of searching, the RF transmission is failed. Shorten the distance between the monitor & wind meter and search for the sensor again. If the RF transmission still failed, then shorten the distance again and reset the wind meter by removing all batteries from the wind meter and wait for 10 seconds before re-installing the batteries again. Then repeat above step until the RF communication is completed.

5. Selecting a location for the rain gauge

Select a mounting location for the rain gauge that is:

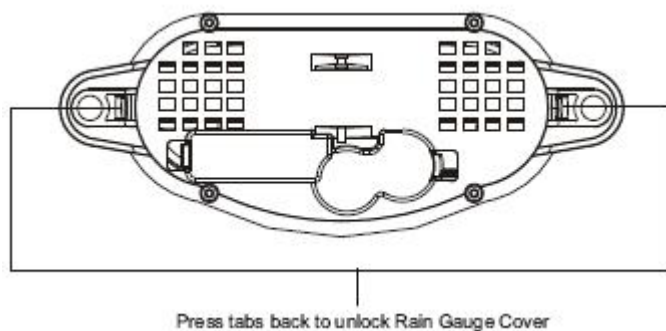
- a flat, level surface and suggest to look for a location where the rain gauge can be placed 1 meter or more above ground level.
- within 40 meter (131 feet) open area from the monitor. Reduce distance if obstacles is between the rain gauge & the monitor
- in an area not blocked on the top or sides, so rain can freely reach the rain gauge (for example, not under an overhang or too close to a building or fence)

Cautions:

- To prevent false rainfall readings caused by water splashes, do not choose a location that is not level or that is too close to the ground, a swimming pool, lawn sprinklers, or anywhere water might accumulate or run off
- The screen in the cylinder of the rain gauge filters most debris (such as leaves) that might fall into the rain gauge. To avoid frequent build-up of debris in the cylinder, do not mount the rain gauge too close to the trees or plants

6. Battery Installation for the rain gauge

1. Press the tabs back as indicated below to unlock the rain gauge cover



2. Lift the rain gauge cover off its base. Then carefully remove the packing tape from the bucket assembly
3. Open battery cover and insert 2 pieces of AA batteries according to the polarity indicated. Close the battery cover
4. Replace & lock the rain gauge cover on the base
5. Go to "SETUP" mode, select "SEARCH NOW" in the "WIRELESS SENSOR RECEPTION" section and exit. The monitor is now searching for all remote sensors. Total rainfall reading (in this case "0" mm or inch) will appear within 2 minutes if the RF transmission is successful and the monitor & rain gauge are now within the effective transmission range.
6. If the rainfall reading remain "- - -" after 2 minutes of searching, the RF transmission is failed.
Shorten the distance between the monitor & rain gauge and search for the sensor again. If the RF transmission still failed, then shorten the distance again and reset the rain gauge by removing all batteries from the rain gauge and wait for 10 seconds before re-installing the batteries again. Repeat step 5 (& 6) until the RF communication is completed.

7. Mounting the rain gauge

Before mounting the rain gauge, be sure the rain gauge & monitor are within the transmission effective range and batteries are installed.

1. Hold the base of the rain gauge flat against the mounting surface then use a level to make sure the rain gauge (as it rest on the mounting surface) is horizontally level.
2. Use a pencil to trace the inside of the mounting holes on the base of the rain gauge to mark the screw locations.
3. Drill a hole in the center of each marked location and insert the supplied plastic screw plugs
4. Hold the rain gauge against the mounting surface so the holes on the base are aligned with the plugs, then thread the supplied washer head screws into each hole and use a screwdriver to tighten them.

WEATHER FORECAST SETTING

To obtain an accurate weather forecast, you need to input your current weather condition as initial setting.

Go to "SETUP" display mode and use [UP]/[DOWN] to select "Weather Forecast". Press [LEFT]/[RIGHT] to select your current weather condition between "Sunny", "Partly Cloudy", "Cloudy", "Rainy" or "Stormy" as the initial weather forecast setting. Press [ENTER] to confirm setting and [EXIT] to exit the "SETUP" mode.

The unit predicts weather condition of the next 12 – 24 hours based on the change of atmospheric pressure. The coverage area is around 30 – 50 km. The weather forecast is based on atmospheric pressure change and is about 70-75% correct. As weather conditions cannot be 100% correctly forecasted, we cannot be responsible for any loss caused by an incorrect forecast.



SUNNY



PARTLY CLOUDY



CLOUDY



RAINY



STORMY

NOTE:

Different geographical location such as inland area or coastal region has different weather forecasting response. In case your weather forecast always show the wrong weather forecast over a long period of time and does not reflect the actual weather condition, it is necessary to adjust the weather forecast to the current weather condition with the above setting procedure.

OPERATION

There are 5 display modes in the menu selection.



PHOTO



WEATHER



WEATHER & PHOTO



CALENDAR



SETUP

Press [LEFT] or [RIGHT] to select and [ENTER] to enter the selected display mode.

PHOTO MODE

Save your photos (JPEG format) into your memory device (USB memory stick, SD or MMC card) and insert into the connector on the side of the photo frame when the unit is off. Turn on the photo frame and enter PHOTO mode to view the photos.

Press [LEFT] / [RIGHT] to view the next or previous photo

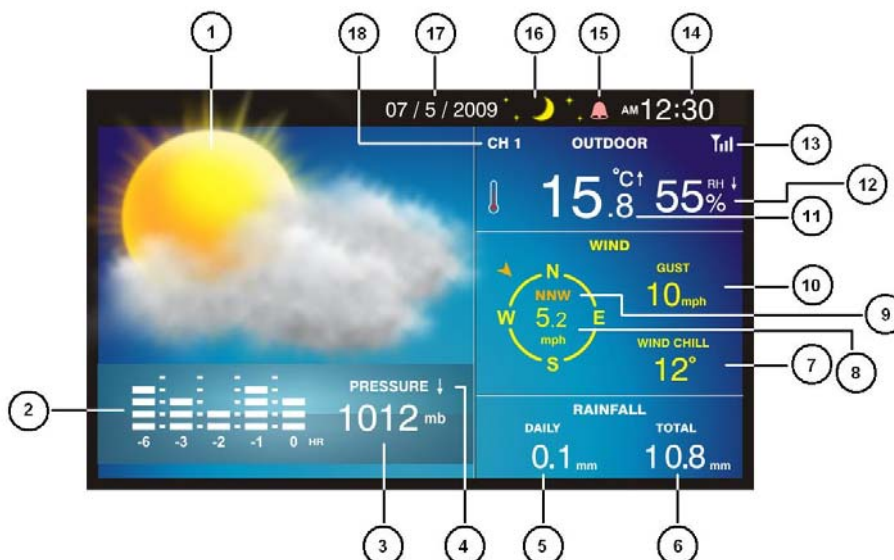
Press [SLIDESHOW] to enable or disable the slideshow

Press [ZOOM IN] to enlarge the photo (press repeatedly to resume to the original photo size)

Press [ROTATE] to rotate the photo

To set the time interval & transition effect of the slideshow, enter the SETUP mode for setting.

WEATHER MODE



- 1) Weather forecast – includes sunny, partly cloudy, cloudy, rainy & stormy
- 2) Pressure bar chart – shows pressure level & trend of the past 6 hours
- 3) Barometric pressure - pressure reading (refer SETUP mode for pressure unit setting)
- 4) Pressure trend – rising, steady or falling
- 5) Daily, weekly or monthly rainfall in inch or mm
- 6) Total Rainfall in inch or mm
- 7) Wind chill in degree F or C
- 8) Average wind speed in m/s, knots, mph & km/h
- 9) 16 resolution of average wind direction
- 10) Gust wind speed in m/s, knots, mph & km/h
- 11) Outdoor or indoor temperature in degree C or F (with trend – rising, steady or falling)
- 12) Outdoor or indoor humidity (with trend – rising, steady or falling)
- 13) RF signal indicator – flashes when it is searching for RF signal from remote sensor; stays on when it has successfully received RF signal from the remote sensor
- 14) Clock – displays in 24 or 12 hour format (refer “Time format” in SETUP mode for setting)
- 15) Alarm icon – appears when alarm is enabled
- 16) Moon phase with stars icons – New moon (the moon icon disappears), Waxing Crescent moon, First Quarter Moon, Waxing gibbous moon, Full Moon, Waning gibbous Moon, Last Quarter Moon & Waning Crescent Moon
- 17) Calendar – displays in Day/Month or Month/Day format (Refer SETUP mode for setting)
- 18) Channel number of outdoor remote sensor – channel 1, 2 or 3 (Default channel 1 for wind meter)

WEATHER & PHOTO MODE



- 1) Clock – displays in 24 or 12 hour format (refer “Time format” in SETUP mode for setting)
- 2) Alarm icon – appears when alarm is enabled
- 3) Weather forecast – includes sunny, partly cloudy, cloudy, rainy & stormy
- 4) Daily, weekly & monthly rainfall in inch or mm
- 5) Average wind speed and wind direction
- 6) Indoor or outdoor temperature in degree C or F (with trend – rising, steady or falling)
- 7) Indoor or outdoor humidity (with trend – rising, steady or falling)
- 8) RF signal indicator – flashes when it is searching for RF signal from remote sensor; stays on when it has successfully received RF signal from the remote sensor
- 9) Photo

CALENDAR MODE

Press [LEFT] / [RIGHT] to show the calendar of the previous or next month

Press [UP] / [DOWN] to show the calendar of the previous or next year

To set the calendar, enter SETUP mode for setting


SETUP MODE

Press [UP]/[DOWN] to move to your setting item. Press [LEFT]/[RIGHT] to select the setting and press [ENTER] to confirm the setting.

Language:	Select between English, Dutch & French
Slideshow Time:	Select between 3s, 5s, 15s, 1 min, 15 min & 1 hour for photo slideshow mode
Transition Effect:	Select the transition effect of the photo slideshow mode
Photo repeat mode:	Select between random, manual or repeat all for the photo slideshow mode
Display mode:	Select the photo display mode (cinema, stretch, crop)
On/Off Timer 1 - On:	Adjust the first automatic power on time in HH:MM; enable or disable
On/Off Timer 1 - Off:	Adjust the first automatic power off time in HH:MM; enable or disable
On/Off Timer 2 - On:	Adjust the second automatic power on time in HH:MM; enable or disable
On/Off Timer 2 - Off:	Adjust the second automatic power off time in HH:MM; enable or disable (For power saving, you can select when to turn on or off the photo frame automatically throughout the day using the On/Off timer 1 or 2)
Brightness:	Select the brightness of the display from level 1 to 16
Contrast:	Select the contrast of the display from level 1 to 16
Saturation:	Select the saturation of the display from level 1 to 16
Radio-Controlled Reception:	(This function is not available for this unit. Please keep this setting to "Off") Automatic - search for radio-controlled daily at around 2:03am Search now - start searching for radio-controlled clock signal Off – turn off the daily radio-controlled clock reception
Time Zone:	Adjust the clock to your local time using the time offset setting
Time/Date:	Adjust the calendar and time
Calendar Display Format:	Select between Day/Month or Month/Day format
Time Format:	Select between 24 & 12 hour format
Alarm:	Adjust the alarm time and enable/disable the alarm
Wireless Sensor Reception:	Automatic – default RF reception mode Search now – Search for remote sensor immediately
Temperature Unit:	Select between degree C & F for temperature
Weather Forecast:	Select between sunny, partly cloudy, cloudy, rainy & stormy
Rainfall unit:	Select between mm & inch
Wind unit:	Select between m/s, knots, mph & km/h
Sea Level Pressure:	Adjust the sea level pressure for your local area
Pressure Unit:	Select pressure unit between hPa, mmHg, inHg & mb
Remote Channel Display:	Automatic – Show the channel(s) being registered Channel 1 only – Shows only channel 1 reading only Channel 2 only – Shows only channel 2 reading only Channel 3 only – Shows only channel 3 reading only

Clear All Rainfall Record Now: Yes / No
Default Setting: Yes / No
S/W Version: Software version

TROUBLE SHOOTING

- In case of power outage, the unit will shut off completely and the synchronization of RF remote sensor will be lost. You are required to set up the remote sensor & weather forecast again following the procedures in the manual.
- After every battery replacement of the remote sensor, you are required to follow the procedure in the manual to setup the remote sensor again.
- The USB port on the side of the photo frame should not be used as a power source or charger to provide power to your USB device other than a USB flash drive. The extra power provided may affect the reception & performance of the photo frame and may reset the unit. We are not responsible for any damage to the photo frame due to this reason.
- If your photo frame does not receive RF temperature & humidity signal from the remote sensor, check the battery level of the remote sensor. Replace the batteries of the remote sensor when the “” low battery icon appears on the sensor’s display and repeat the setup procedure in the manual. If it continues to fail, try to shorten the distance between the photo frame & remote sensor and repeat the setup procedure in the manual to link up the sensor. Obstacle or wall between the remote sensor & photo frame will shorten the effective reception range of the unit. Do not place the photo frame & remote sensor near metal or electrical appliances such as TV, computer or WiFi system due to the RF interference emitted from these devices. Avoid placing the remote sensor in direct sunlight as it will heat up the sensor and provide inaccurate outdoor temperature reading. In cold weather below 0 C, the battery voltage level of the remote sensor will drop and the overall transmission range will reduce and this is normal. Shorten the distance between the sensor & the photo frame. For extreme low outdoor temperature below 0C, you are advised to use lithium AAA battery on the remote sensor as normal alkaline battery may freeze at extreme low temperature.
- If your weather forecast reading does not reflect the actual weather condition for a long period of time, you are required to adjust the weather forecast setting in the SETUP mode as described in the manual.
- If the IR remote control does not function even at a short distance in front of the photo frame, the battery inside the IR remote control may be flat. Replace a new CR2025 battery following the battery polarity indicated on the back of the IR remote control.

BATTERY DISPOSAL

Replace only with the same or equivalent type recommended by the manufacturer. Please disposal of old, defective batteries in an environmentally friendly manner in accordance with the relevant legislation.

SPECIFICATIONS

Memory	: Supports USB flash drive (up to 32GB), SD & MMC cards (up to 32GB)
Photo format	: Supports Jpeg format
Indoor Temperature	: 0 C to + 50 C (+32 F to +122 F) (Shows LL when below 0C or 32F; shows HH when above 50C or 122F)
Outdoor Temperature	: -20 C to +60 C (-4 F to +140 F) (Shows LL when below -20C or -4F; shows HH when above 60C or 140F)
In/Out Humidity	: 20% - 99% RH
RF Frequency	: 915MHz
Transmission	: Wind meter – up to 75 meter (246 feet) in open area Rain gauge – up to 40 meter (131 feet) in open area
Resolution	: 0.1 degree C for temperature, 1% for humidity
Wind speed range	: 0 – 30m/s

: 0 – 108 km/h

: 0 – 67 mph

: 0 – 58.3 knot

Rain Gauge reading : 0 – 9999 mm

: 0 – 393.66 inch

Power : 5.0V adapter for photo frame

: AA x 2 pcs for wind meter

: AA x 2 pcs for rain gauge

: CR2025 x 1 pc for IR remote control

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER AUTHORITY TO OPERATE THE EQUIPMENT

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.

NOTE: 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 or more 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.**