AC INFINITY

SMART OUTLET ENVIROMENTAL CONTROLLED

USER MANUAL

WELCOME

Thank you for choosing AC Infinity. We are committed to product quality and friendly customer service. If you have any questions or suggestions, please don't hesitate to contact us. Visit www.acinfinity.com and click contact for our contact information.

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LOCATION Los Angeles, CA

MANUAL CODE SOT2107X1

PRODUCT
CONTROLLER 7

CONTROLLER 75 CONTROLLER 76 MODEL

CTR75A CTR76A UPC-A

819137022508 819137021525

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KEY FEATURES

SMART CONTROLLER

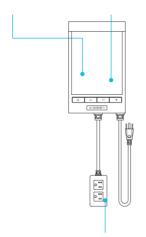
Features automation controls that power devices based on temperature, humidity, timers, and schedules.

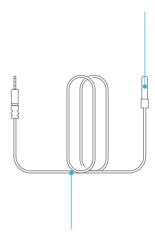
ACTIVE MONITORING

LED display shows key data like outlet power status, temperature, humidity, trends, clock, and countdowns.

SENSOR PROBE

Corded probe made of stainless steel to ensure precise temperature and humidity readings.





WALL MOUNTING

Black powder-coated finish, fire-resistant casing with keyhole hanger for easy mounting on any hook or screw.

DUAL OUTLETS

Built with a detached electrical socket module that allows for powering and controlling two devices at the same time.

EXTRA CORD LENGTH

Extended cord length of 144 inches (12 feet) for ease of management and flexible mounting options.

PRODUCT CONTENTS



WALL HANG CONTROLLER (x1)



SENSOR PROBE (x1)



WALL-HANG WOOD SCREWS (x2)



WIRE TIE (x1)



CABLE TIE MOUNT (x1)



DESKTOP CONTROLLER (x1)



SENSOR PROBE (x1)



WALL-HANG WOOD SCREWS (x2)



WIRE TIE (x1)



CABLE TIE MOUNT (x1)

POWERING AND SETUP

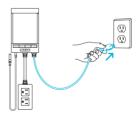
STEP 1

Plug the sensor probe into the 3.5mm port located at the bottom side of your controller.



STEP 2

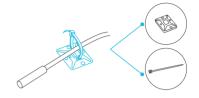
Insert the power plug into a wall outlet to power your controller.



POWERING AND SETUP

STEP 3

Position the corded sensor probe and secure it by using the included zip ties and tie mounts.



STEP 4

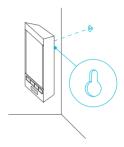
Locate a spot free of obstruction and secure the anchor into your wall. Twist the wood screw into the anchor.



POWERING AND SETUP

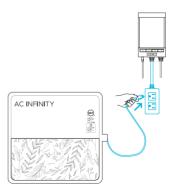
STEP 5

Hang your controller by the screw using the hole located on its backside.



STEP 6

Plug your device (not included) into one of the two sockets to power it with your controller.



CONTROLLER 76



1 MODE BUTTON

Cycles through each of the controller's mode: OFF, ON, AUTO (4 triggers), TIMER TO ON, TIMER TO OFF, CYCLE (On and Off), and SCHEDULE (On and Off).

2. UP/DOWN BUTTONS

Adjusts the value of your current mode. The up button increases and down button decreases the setting. Hold both to reset values to OFF or 0.

3. SETTING BUTTON

Cycles through each of the controller's settings: DISPLAY BRIGHTNESS, °F/ °C, CLOCK, CALIBRATION (Temperature and Humidity), and BUFFER (Temperature and Humidity).

4. OUTLET STATUS

Displays the outlet controller's power status, indicating whether or not electricity is being fed to your device. ON will display if your devices are being powered and OFF will display if your devices are not being powered.

5. PROBE TEMPERATURE

Current temperature the probe is detecting. Displays "--" if no probe is plugged in. Includes a trend indicator that signals a rise, fall or no change in temperature within the last hour.

6. PROBE HUMIDITY

Current humidity the probe is detecting. Displays "--" if no probe is plugged in. Includes a trend indicator that signals a rise, fall or no change in humidity within the last hour.

7. CONTROLLER MODE

Displays the controller's current mode. Pressing the mode button cycles through the available modes.

8. STATUS ICONS

Flashes or displays the alert icons of the controller. The icons include TIMER ALERT and DISPLAY LOCK

9. CURRENT TIME

Displays the current time. The internal battery sustains the clock so it does not default to 00:00 if power is cut off. See page 22 to learn how to set the clock time.

10. COUNTDOWN

Displays the countdown of the TIMER TO ON, TIMER TO OFF, CYCLE, or SCHEDULE modes.TO ON shows the amount of time left before your devices power on. TO OFF shows the amount of time left before your devices power off.

11. USER SETTING

Displays the value of your current mode. Use the up and down buttons to adjust the value.

CONTROLLER 75



1. POWER BUTTON

Cycles through each of the controller's mode: OFF, ON, AUTO (4 triggers), TIMER TO ON, TIMER TO OFF, CYCLE (On and Off), and SCHEDULE (On and Off).

2. MODE BUTTON

Cycles through each of the controller's mode: OFF, ON, AUTO (4 triggers), TIMER TO ON, TIMER TO OFF, CYCLE (On and Off), and SCHEDULE (On and Off).

3. SETTING BUTTON

Cycles through each of the controller's settings: DISPLAY BRIGHTNESS, °F/ °C, CLOCK, CALIBRATION (Temperature and Humidity), and BUFFER (Temperature and Humidity).

4. UP/DOWN BUTTONS

Adjusts the value of your current mode. The up button increases and down button decreases the setting. Hold both to reset values to OFF or 0.

5. OUTLET STATUS

Displays the outlet controller's power status, indicating whether or not electricity is being fed to your device. ON will display if your devices are being powered and OFF will display if your devices are not being powered.

6. PROBE TEMPERATURE

Current temperature the probe is detecting. Displays "--" if no probe is plugged in. Includes a trend indicator that signals a rise, fall or no change in temperature within the last hour.

7. PROBE HUMIDITY

Current humidity the probe is detecting. Displays "--" if no probe is plugged in. Includes a trend indicator that signals a rise, fall or no change in humidity within the last hour.

8. CONTROLLER MODE

Displays the controller's current mode. Pressing the mode button cycles through the available modes.

9. STATUS ICONS

Flashes or displays the alert icons of the controller. The icons include TIMER ALERT and DISPLAY LOCK.

10. CURRENT TIME

Displays the current time. The internal battery sustains the clock so it does not default to 00:00 if power is cut off. See page 22 to learn how to set the clock time.

11. COUNTDOWN

Displays the countdown of the TIMER TO ON, TIMER TO OFF, CYCLE, or SCHEDULE modes.TO ON shows the amount of time left before your devices power on. TO OFF shows the amount of time left before your devices power off.

12. USER SETTING

Displays the value of your current mode. Use the up and down buttons to adjust the value.

(BOTH CONTROLLERS)

CONTROLLER MODES

Pressing the mode button will cycle through the controller's available programming modes: OFF, ON, AUTO (4 triggers), TIMER TO ON, TIMER TO OFF, CYCLE (On and Off), and SCHEDULE (On and Off).

OFF MODE

Your device will remain off regardless of temperature, humidity, or time-based triggers.

Jump back to OFF Mode anytime by holding the MODE button while in other modes or settings.



ON MODE

Your device will stay on regardless of temperature, humidity, or time-based triggers.



AUTO MODE (HIGH TEMPERATURE TRIGGER)

Pressing the up or down button sets the high temperature trigger. Your device will turn on if the probe's reading meets or exceeds this threshold.

If the probe's reading falls below this trigger point, your device will turn off. This shut off point can be adjusted using the buffer setting as shown on page 23.

You may also set this trigger below the low temperature trigger to create a specific range, in which your device will only be on when it's within this range.



Note that this trigger can activate as long as you are in AUTO Mode, even if you are viewing a different trigger within AUTO Mode.

AUTO MODE (LOW TEMPERATURE TRIGGER)

Pressing the up or down button sets the low temperature trigger. Your device will turn on if the probe's reading meets or falls below this threshold.

If the probe's reading rises above this trigger point, your device will turn off. This shut off point can be adjusted using the buffer setting as shown on page 23.

You may also set this trigger above the high temperature trigger to create a specific range, in which your device will only be on when it's within this range.



Note that this trigger can activate as long as you are in AUTO Mode, even if you are viewing a different trigger within AUTO Mode.

AUTO MODE (HIGH HUMIDITY TRIGGER)

Pressing the up or down button sets the high humidity trigger. Your device will turn on if the probe's reading meets or exceeds this threshold.

If the probe's reading falls below this trigger point, your device will turn off. This shut off point can be adjusted using the buffer setting as shown on page 23.

You may also set this trigger below the low humidity trigger to create a specific range, in which your device will only be on when it's within this range.



Note that this trigger can activate as long as you are in AUTO Mode, even if you are viewing a different trigger within AUTO Mode.

AUTO MODE (LOW HUMIDITY TRIGGER)

Pressing the up or down button sets the low humidity trigger. Your device will turn on if the probe's reading meets or falls below this threshold.

If the probe's reading rises above this trigger point, your device will turn off. This shut off point can be adjusted using the buffer setting as shown on page 23.

You may also set this trigger above the high humidity trigger to create a specific range, in which your device will only be on when it's within this range.



Note that this trigger can activate as long as you are in AUTO Mode, even if you are viewing a different trigger within AUTO Mode.

TIMER TO ON MODE

Pressing the up or down button sets a countdown time. During the countdown, your device will be set to OFF. Once the timer ends, your device will trigger to turn on.

The countdown will begin if no buttons are pressed for 5 seconds. The time left on the countdown is shown on the lower right corner of the display above the setting. Leaving the timer mode while the countdown is running will pause it until you return to this mode.



TIMER TO OFF MODE

Pressing the up or down button sets a countdown time. During the countdown, your device will be set to ON. Once the timer ends, your device will trigger to turn off.

The countdown will begin if no buttons are pressed for 5 seconds. The time left on the countdown is shown on the lower right corner of the display above the setting. Leaving the timer mode while the countdown is running will pause it until you return to this mode.



CYCLE MODE (ON AND OFF)

Sets an ON duration and an OFF duration for your device to cycle through continuously. Press the up or down button to set a countdown for your device to turn on. Then press the mode button and use the up or down button to set a countdown for your device to turn off.

The countdown will begin if no buttons are pressed for 5 seconds. Leaving the CYCLE mode while the countdown is running will pause it until you return to this mode.





SCHEDULE MODE (ON AND OFF)

Sets an ON clock-time and an OFF clock-time schedule for your device to follow daily. Press the up or down button to set a clock time for your device to turn on. Then press the mode button and use the up or down button to set a clock time for your device to turn off. Refer to page 22 to learn how to set the controller's clock time.

The countdown will begin if no buttons are pressed for 5 seconds. The time left on the countdown before the next ON or OFF phase is shown on the lower right corner of the display above the setting. Your device will not follow this schedule if you leave this mode. If you re-enter the schedule mode, it will continue to follow the latest schedule you have set.





CONTROLLER SETTINGS

Pressing the setting button will cycle through the controller's available settings: DISPLAY, °F/ °C, CLOCK, CALIB. T°, CALIB. H%, BUFFER T°, and BUFFER H%.

DISPLAY SETTING

Adjusts the display brightness and auto-dimming. Press the up or down button to cycle through levels 1, 2, 3, A2 and A3; 3 being the highest brightness setting, while 1 is the lowest. In settings 1, 2 and 3, the display will stay at that brightness level and will not automatically dim the display.

A2 and A3 will set the brightness level at 2 and 3, respectively, and will dim down the brightness level 1 when the controller is not being used after 15 seconds.



°F/°C SETTING

Changes the displayed units to Fahrenheit or Celsius. Press the up or down button to cycle through °F and °C. All displayed units will automatically convert when adjusting this setting.



CLOCK SETTING

Adjusts the current clock time. Press the up or down button to increase or decrease the time. Once you cycle through 12:00 each time, the units will automatically change to AM or PM. The clock time is located at the lower left corner of the display.



CALIBRATION TEMPERATURE SETTING

Adjusts the temperature reading the sensor probe is measuring. Press the up or down button to increase or decrease the value by 2°F (or 1°C) increments. The calibration cycle ranges from -8°F to 8°F (or -4°C to 4°C) and will be applied to the sensor probe's measurements.



CALIBRATION HUMIDITY SETTING

Adjusts the relative humidity reading the sensor probe is measuring. Press the up or down button to increase or decrease the data figure by 1% increments. The calibration cycle ranges from -8% to 8% and will be applied to the sensor probe's measurements.



BUFFER TEMPERATURE SETTING

Sets a gap from your set temperature trigger to prevent your device from shutting off too quickly. Press the up or down button to cycle through buffer range from 0°F to 8°F (or 0°C to 4°C).

In high temperature triggers, your device will turn on, only turning off when the temperature falls below your buffer setting.

In low temperature triggers, your device will turn on, only turning off when the temperature rises above your set buffer setting.



BUFFER HUMIDITY SETTING

Sets a gap from your set humidity trigger to prevent your device from shutting off too quickly. Press the up or down button to cycle through buffer range from 0% to 8%.

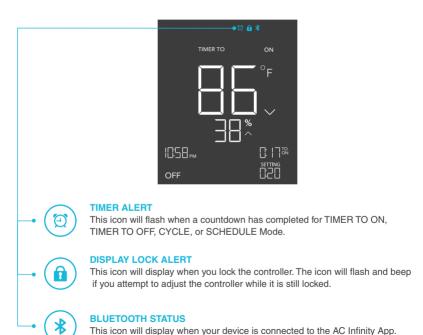
In high humidity triggers, your device will turn on, only turning off when the humidity falls below your buffer setting.

In low humidity triggers, your device will turn on, only turning off when the humdity rises above your set buffer setting.



ALERT / STATUS ICONS

On the top left of the display is the alert icon section. Icons may flash when the controller wishes to alert you that a particular function or alarm is being triggered.



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OTHER SETTINGS

CONTROLLER LOCK

Holding the setting button will lock the controller in your current mode. While your controller is locked, no parameters may be adjusted, nor will you be able to switch modes. Holding the setting button again will unlock the controller.

HOLD + •

HIDE SCREEN

Lock the controller so no settings can be adjusted. See above. Then press the setting button to turn the display off. Pressing it again will turn the display back on. Programs will still run in the background while the LCD screen is off.

PRESS + •

JUMP TO OFF MODE

Holding the mode button for 3 seconds while in any mode or setting will automatically jump to OFF Mode. This function is disabled if the controller is locked.

HOLD + ≡

RESET TO OFF OR ZERO (0)

Holding the up and down buttons together for 2 seconds will reset the value of your current mode to OFF or 0. Pressing either the up or down button will return the value to the mode's last setting.

HOLD + □ □ □

AUTO INCREASING OR DECREASING

Holding the up or down button will increase or decrease the user setting automatically until you release them.

HOLD + □ □

FACTORY RESET

Holding the mode, up, and down buttons together for 5 seconds will reset your controller and restore factory settings. This clears all user parameters in each controller mode and setting.



DOWNLOAD THE APP

THE AC INFINITY APP

The AC Infinity app enables you to connect with the next generation of our intelligent controllers, giving you access to advance programs and environmental data.



Download the AC Infinity app from the App Store or Play Store by searching "AC Infinity".



Open the AC Infinity app and follow the instructions on page 25 to pair your controller with the app.







QUICK TIP FOR EASY ACCESS

Open the smart phone camera and scan the QR code below to download the AC Infinity app. Please visit our website at www.acinfinity.com for more information on the AC Infinity app.



ADD A DEVICE

SETUP AND PAIRING

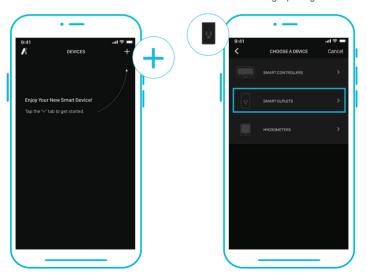
Power your device on before pairing your device with the app. Refer to pages 8-10 for more information regarding controller setup.



Tap on the "+" tab to add your smart device.



To launch the app, tap on the "SMART OUTLETS" tab to begin pairing.



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ADD A DEVICE



Once the app displays the pairing success screen, tap the DONE button to finish the pairing process. This may take a few seconds to complete.



Your controller will appear in your smart device with a unique ID.





Please note: when pairing the app around multiple controllers, move your mobile device closer to your desired controller.

1. MODE BUTTON

Dropdown displays all available controller modes: OFF, ON, AUTO, TIMER TO ON, TIMER TO OFF, CYCLE, and SCHEDULE.

2. TEMPERATURE/HUMIDITY

Toggles between current temperature and humidity readings.

3. SETTINGS

Adjusts app settings including Device Name, Temperature Display, Device Brightness, Buffers, and Calibrations.

4. CONNECTION STATUS

Displays the last time and date the app is paired with the controller and whether or not they are currently connected.

6. SLIDERS

Adjusts the setting of your current mode. Slide left to decrease and slight right to increase. The (+/-) steppers may also be used.

8. ADV. PROGRAMMING

Creates automated activations, alarms, and push notifications.

10. HISTORY LOG

Logs all advance programming notifications and controller activity. Can be filtered by controller functions.



5. CONTROL WHEEL

Lays out your current mode's controls and displays temperature/humidity, current settings, and time.

7. CONTROLS TAB

Gives access to the controller mode dashboard, control wheel, mode button, temperature/humidity button, and sliders.

9. DATA TAB

Logs and stores all temperature and humidity information. Tracks trends and distribution. Data can be sorted by hour, day, week, month, and year.

CONTROLS TAB

Contains all controller modes including the OFF, ON, AUTO, TIMER TO ON, TIMER TO OFF, CYCLE and SCHEDULE modes.



Tap the paired device to enter the Controls tab, where you can adjust the controller modes.



Tap the menu button to access the controller modes. Tap the temperature/humidity button to switch between readings.





CONTROLS TAB

The control wheel displays the temperature/humidity, current settings, and time.



Use the wheel hands, (+/-) stepper, or sliders to set your parameters.



Use the toggle switch to activate or deactivate any climate triggers.





ADVANCE PROGRAMMING

Creates automated activations, alarms, and push notifications. The adjustable modes in each program include those listed in controls tab.

Once an advance program completes its programming (i.e. scheduling), the app will no longer override the controller's onboard settings. Only when the advance program activates will the app override the controller.

Programs can be edited by tapping on them, deactivated by tapping on the toggle switch, or deleted by swiping right and tapping DELETE.

All activity is logged in the History Logs tab.





ADVANCE PROGRAMMING - AUTOMATION

Each automation can support one mode at a time. To automate multiple modes, you must create additional programs, except for TIMER TO ON and TIMER TO OFF in automation. The app will override the controller while an automation is active.



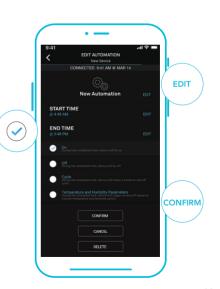
Tap the (+) button to create an automation program.

Set a start time and end time using the time picker. Then select your desired mode to trigger. Choose between ON mode, OFF mode, CYCLE mode, or Temperature and Humidity.

When selecting CYCLE mode, use the sliders to set your CYCLE ON and CYCLE OFF timers

When selecting Temperature and Humidity, use the sliders to select and the toggle switch to activate or deactivate them.

Tap CONFIRM to save the program.



ADVANCE PROGRAMMING - ALARMS

Alarms will tell your controller to beep whenever your outlet switches on or off as a result of the mode(s) you select in the program. Choose between PARAMETERS, AUTO, TIMER TO ON, TIMER TO OFF, CYCLE and SCHEDULE modes. Alarm programming will also have a climate points setting in which the alarm will go off when temperature and humidity hits a high or low point.



Tap the (+) button to create an alarm program. You may select multiple modes to trigger an alarm in a single program.

When selecting Temperature and Humidity, use the sliders to select and the toggle switch to activate or deactivate them.

You may edit the name of the program by tapping EDIT.

Tap CONFIRM to save the program.



ADVANCE PROGRAMMING - NOTIFICATIONS

Notification programs will send push notifications to your mobile device whenever your fan switches on or off as a result of the mode(s) you select in the program. Choose between PARAMETERS, AUTO, TIMER TO ON, TIMER TO OFF, CYCLE and SCHEDULE modes. Notification programming will also have a climate points setting in which you receive push notifications when temperature and humidity hits a high or low



Tap the (+) button to create a notification program. You may select multiple modes to trigger an alarm in a single program.

When selecting Temperature and Humidity, use the sliders to select and the toggle switch to activate or deactivate them.

You may edit the name of the program by tapping EDIT.

Tap CONFIRM to save the program.



DATA TAB

Logs and stores all temperature and humidity information. Readings are displayed in fluctuation charts and bar graphs and can be viewed in hours, days, weeks, months, and years. Data can be exported as a spreadsheet and sent to other devices by tapping EXPORT CSV DATA.



The Fluctuation Charts readout displays the detected temperature or humidity over a given timespan. Swipe left or right to scroll through the readings. As you scroll, the dotted line will move up or down and display the average reading of the timespan you selected.

The maximum reading of the given time span is displayed at the top of the chart, while the minimum reading is displayed at the bottom of the chart.



DATA TAB

The fluctuation charts and bar graphs allow you to see trends in temperature and humidity and enable you to make the necessary adjustments to your space. Tap on any point in the charts and graphs to see detailed information on the picket.



Bar Graphs - This readout displays how often a detected temperature or humidity point occurs over a given timespan.

The minimum and maximum readings of the given timespan are displayed at the top of the graph.



HISTORY LOG

Logs all advance programming notifications and controller activity. Entries can be filtered by controller functions and programming including triggers, timers, cycles, schedules, automation, alarms, and notifications.



2

Swipe up and down to scroll through the history log.

Tap SHOW FILTERS to reveal activity options.
Unchecked functions will filter them from the log.



APP SETTINGS

SETTINGS

Tap the gear icon to access the settings. Sets all controller-related parameters including Device Name, Temperature Display, Screen Brightness, Buffers, and Calibrations. Tap CONFIRM to save your settings. Tapping CANCEL will leave the settings menu without saving changes. Tapping DELETE DEVICE will unpair your controller from the app.





APP SETTINGS

DEVICE NAME

Supports a maximum of 20 characters.

TEMPERATURE DISPLAY

Toggles between Celsius and Fahrenheit scales.

DEVICE BRIGHTNESS

Sets the controller screen brightness using three standard levels [1, 2, and 3] and two autodimming levels [A2 and A3].

BUFFER TEMPERATURE AND HUMIDITY

Sets a gap from your set temperature or humidity trigger to prevent your device from shutting off too quickly. Your device will continue to run until the temperature or humidity crosses this buffer setting.

CALIBRATION TEMPERATURE AND HUMIDITY

Adjusts the controller's temperature and humidity readings to match your other measuring device's readings. The calibration will apply the changes on the app and the controller.

AC INFINITY PRODUCTS

Seedling Mats

The SUNCORE series is a line of seedling mat designed to improve germination success and accelerate your seeds' growth process by emitting steady heat. Each mat is lined with an innovative far-infrared film that provides even heating distribution.



Booster Duct Fans

An inline fan for duct boosting designed to improve airflow in heating and air conditioning applications, and ventilate home rooms like attics, workshops, bathrooms, and kitchens. Each fan uses an easy-to-use knob controller that adjusts fan speed for your specific airflow boosting needs.



Axial Fans

The AXIAL series fan kit is designed for various DIY projects that requires cooling or ventilation; or as a replacement fan for many products on the market. Each fan kit includes fan guards and everything needed to mount the unit onto a wall and power it through a wall outlet. S-series models include a speed controller.



WARRANTY

This warranty program is our commitment to you, the product sold by AC Infinity will be free from defects in manufacturing for a period of two years from the date of purchase. If a product is found to have a defect in material or workmanship, we will take the appropriate actions defined in this warranty to resolve any issues.

The warranty program applies to any order, purchase, receipt, or use of any products sold by AC Infinity or our authorized dealerships. The program covers products that have become defective, malfunctioned, or expressively if the product becomes unusable. The warranty program goes into effect on the date of purchase. The program will expire two years from the date of purchase. If your product becomes defective during that period, AC Infinity will replace your product with a new one or issue you a full refund

The warranty program does not cover abuse or misuse. This includes physical damage, submersion of the product in water, incorrect Installation such as wrong voltage input, and misuse for any reason other than intended purposes. AC Infinity is not responsible for consequential loss or incidental damages of any nature caused by the product. We will not warrant damage from normal wear such as scratches and dings.

For more information about our dealers and distributors, please contact our customer service at support@acinfinity.com or (626) 923-6399 Monday to Friday (9:00 am to 5:00 pm PST).



If you run into any issues with this product, contact us and we'll happily issue a replacement or a full refund!

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