

2GIG-CAM-100W

INDOOR Wi-Fi IP CAMERA 1.3MP

INSTALLATION INSTRUCTIONS

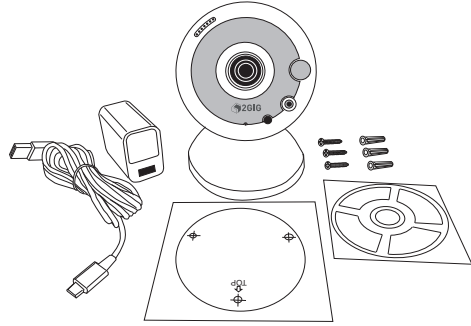
1 Contents

- 1—2GIG Indoor IP Wi-Fi Camera
- 1—10' Power Cable
- 1—Plug-in Power Supply
- 1—3" Support CD with Documentation & Tools
- 1—Paper Mounting Template
- 3—3/4" Mounting Screws and Anchors

2 Installation Tools Required

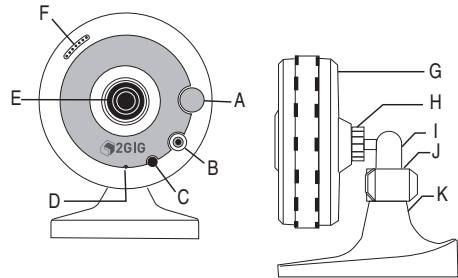
- Phillips and Flat Head Screwdrivers
- Electric Drill

Figure 1. Camera Contents



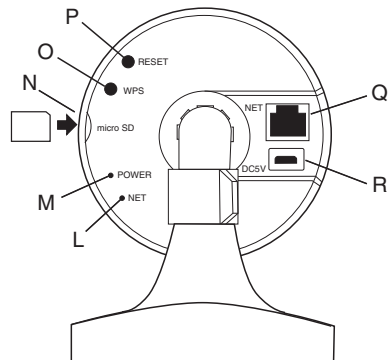
PART	DESCRIPTION
A	Passive Infrared Motion Sensor (PIR)
B	Infrared Illuminator
C	Photosensor
D	Microphone
E	Lens
F	Speaker
G	Camera Body
H	Locking Screw
I	Azimuth rotating shaft
J	Rotating Lock Nut
K	Camera Base

Figure 2. Camera Front/Side Features



PART	NAME	FUNCTION
L	NET Indicator	Lights green during network traffic
M	POWER Indicator	Lights red when camera has power
N	Micro SD Card Slot	Fits an SD card for recording audio and video
O	WPS button (Wi-Fi Protected Setup)	Press for 5 seconds to initiate WPS
P	RESET Button	Press and hold for 20 seconds for factory reset
Q	NET Jack	Connects to network. (PoE is not supported)
R	DC5V Power Input	Connects to plug-in 5 VDC power supply with USB cable.

Figure 3. Camera Rear Features



3 Camera Installation

The camera can be installed in one of three positions.

- A. Bracket horizontally attached to flat surface
- B. Bracket vertically attached to wall
- C. Bracket horizontally attached to ceiling

Mounting the Camera

1. Using a flat head screwdriver, pry off the bottom cover of the camera base at three points.
2. Locate the screw hole template, remove the adhesive backing. Stick the template in the camera installation location. Pay attention to the top hole location making sure the camera is in the orientation desired. Drill three 1/4" holes.
3. Install the screw anchors (included) into the holes. Attach the camera baseplate in place with the three mounting screws. Snap the camera base over the baseplate.
4. Use the locking screw (H) and the rotating locknut (J) to set the camera to the desired angle and view.

SD Memory Card

If the camera will be using an SD memory card, insert the card into the SD card slot (N) on the side of the camera.

NOTE: When installing an SD card, make sure that write protect is OFF before inserting the card. When removing an SD card, put the write protect ON first, or data may be lost or the SD card may be damaged. When hot plugging an SD card, stop recording first.

Figure 4. Camera Mounting Options

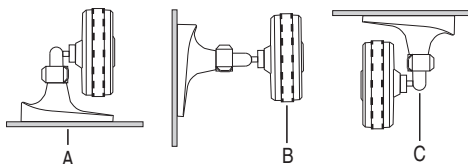


Figure 5. Prying Off Camera Base

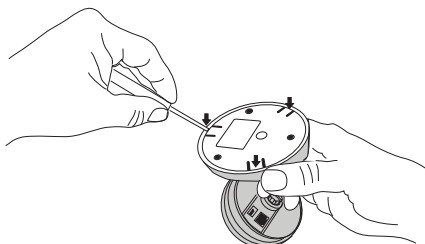


Figure 6. Positioning Drill Template

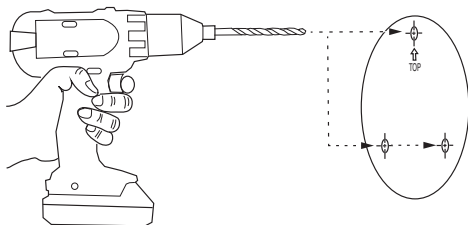


Figure 7. Installing Camera Base to Surface

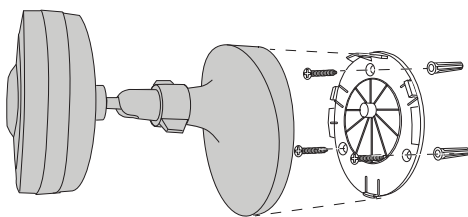
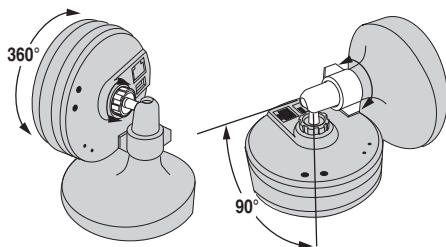


Figure 8. Camera View Adjustments



4 Camera Power

The camera is powered by the plug-in power supply. PoE power is **not** supported.

1. Plug the power cord into the camera's power supply input jack (R).
2. Plug the other end of the power cord into the plug-in power supply.
3. Plug the power supply into an **un-switched** 120 VAC power outlet.

5 Camera Network Connection

This IP Wi-Fi camera can connect to the network four different ways. Choose the connection that best suits the installation.

Wireless Wi-Fi Connection to Router

Use either the WPS button or a manual Wi-Fi setup to the camera to the local area network's Wi-Fi router.

NOTE: Refer to the *Initial IP Camera & 2GIG NVR Software Setup sheet* included with the camera for step-by-step details on setting up a Wi-Fi connection.

Hardwired Connection to Router

1. Plug one end of a Cat5 (Cat-5e or Cat-6) cable into the camera's NET jack (Q).
2. Plug the other end of the cable into an available port on the local area network's router.

Hardwired Connection to a 2GIG NVR

1. Plug one end of a Cat5 (Cat-5e or Cat-6) cable into the camera's NET jack (Q).
2. Plug the other end of the cable into an available camera port on the 2GIG NVR.

Refer to the 2GIG NVR Operation Instructions for details on setting up the NVR.

Power line adapters (PLA) send network traffic through the installations 120 VAC wiring.

NOTE: Power Line Adapters need to be "synced" with each other before use. Refer to the PLA instructions for details.

1. Plug one end of a Cat5 (Cat-5e or Cat-6) cable into the camera's NET jack (Q).
2. Plug the other end of the cable into a PLA. Plug the adapter into a power outlet.
3. Plug one end of another Cat5 (Cat-5e or Cat-6) cable into another PLA. Plug the adapter into a power outlet.
4. Plug the other end of the cable into an available router port or 2GIG NVR camera port.

Figure 9. Camera Power Connection

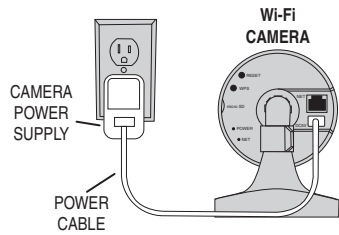


Figure 10. Wi-Fi Connection to Router

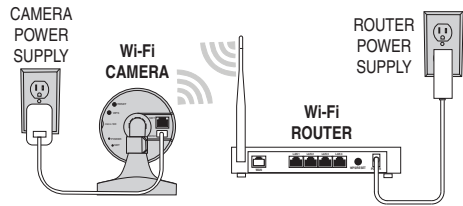


Figure 11. Hardwired Connection to Router

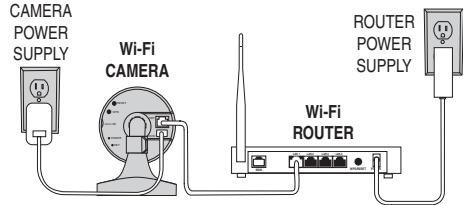


Figure 12. Hardwired Connection to NVR

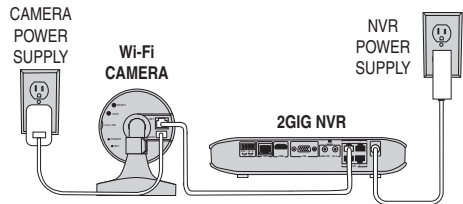
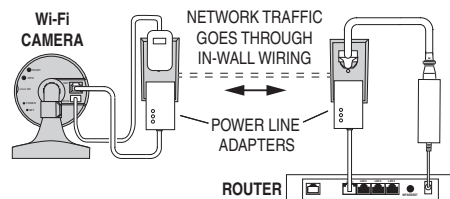


Figure 13. Power Line Adapter Connection



6 Smart Phone Applications

For monitoring 2GIG cameras, two smart phone / tablet applications are available on-line.

- For Android devices, "2GIG Video" is an application available in the Google Play Store.
- For Apple iOS devices, "2GIG Video" is an application available in the Apple App Store.

Installing the 2GIG Video Application

1. Go to the on-line store compatible with the smart phone or tablet and download the 2GIG Video app.
2. Click on INSTALL. Wait for the installation on the device.
3. Click on OPEN. The application should launch.

See Section 7 or Section 8 on the reverse side of this sheet for details on adding and viewing 2GIG cameras with each application.

Figure 14. Android App in Play Store

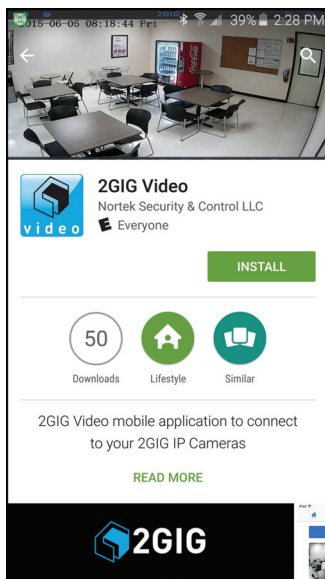
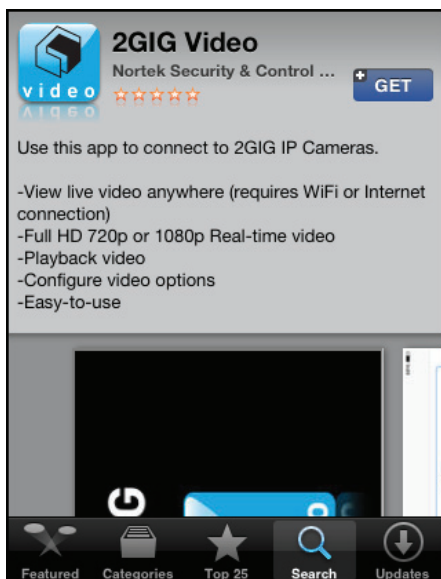


Figure 15. iOS App in Apple Store



7 Android 2GIG Video Application

An Android device can run the 2GIG Video Application to monitor 2GIG cameras.

First set up the application while the Android device is connected to the Local Area Network that the camera(s) are installed on. To monitor the camera(s) remotely, on the Internet, from outside the Local Area Network that the camera(s) are installed on, Port Forwarding must be set in the router. Refer to the Initial IP Camera & 2GIG NVR Software Setup sheet included with the camera for details on setting router Port Forwarding.

Adding 2GIG IP Cameras

1. After downloading the 2GIG Video app from the Google Play store, launch the app.
2. Press **AUTO DISCOVERY** at the bottom of the screen.
3. Enter the default Username and Password. (**admin / admin**)
4. Press **SEARCH**. The app will search for 2GIG IP Cameras on the Local Area Network. The camera(s) discovered will be listed.
5. Select the 2GIG Camera(s) with the blue check mark, then press **ADD**. The **ADD SUCCEED** message should be displayed.
6. Press **DEVICE LIST**. The IP Camera(s) names are displayed.
7. Select a Camera.
8. Select a video stream to view (cameras can send two video streams of different quality).

The camera's view will be displayed. Option buttons display are on the bottom of the screen. Multiple camera views can be tiled, video snapshots, full screen mode, and other options are available.

For details on using the app, refer to the app's built-in help instructions accessed through the gear setup icon.

Figure 16. Auto Discovery Button

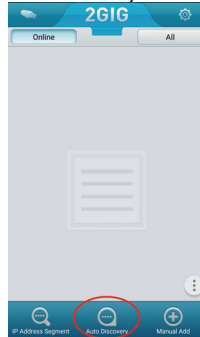


Figure 17. Auto Discovery of Cameras

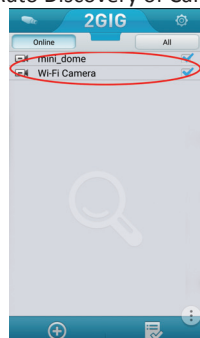


Figure 18. Online Device List

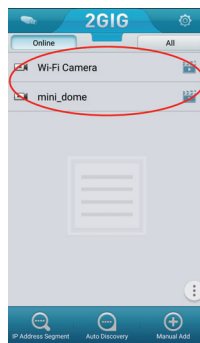
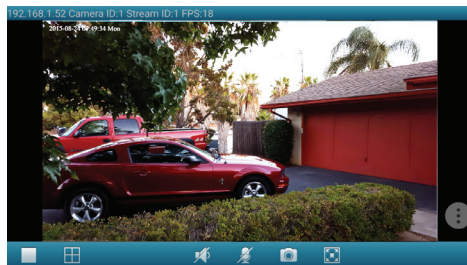


Figure 19. Viewing Camera Video



8 iOS Application

An Apple device can run the 2GIG Video Application to monitor 2GIG cameras.

First set up the application while the Apple device is connected to the Local Area Network that the camera(s) are installed on. To monitor the camera(s) remotely, on the Internet, from outside the Local Area Network that the camera(s) are installed on, Port Forwarding must be set in the router. Refer to the Initial IP Camera & 2GIG NVR Software Setup sheet included with the camera for details on setting router Port Forwarding.

Adding 2GIG IP Cameras

1. After downloading the 2GIG Video app from the Apple store, press **OPEN**.
2. Press **AUTO DISCOVERY** magnifying glass at the top of the screen. The **EXISTING DEVICES** screen will display.
3. Press **AUTO DISCOVERY**, then **SEARCH**. The app will search for 2GIG IP Cameras on the Local Area Network. The IP addresses of the camera(s) discovered will be listed.
4. Click on a camera, then enter the default Username and Password. (**admin / admin**) then press **OK**.
5. If the camera's username and password is OK the camera's IP address will turn blue.
6. Repeat Steps 6 & 7 for additional cameras.
7. Press the blue camera IP address to select the camera. A blue check mark will show.
8. Press **ADD**. The **ADD SUCCEED** message should be displayed. Press **OK**.
9. Press the **HOME** icon. Press the + sign to display the available cameras.
10. Select a Camera.

The camera's view will be displayed. Option buttons display are on the bottom of the screen. Multiple camera views can be tiled, video snapshots, full screen mode, and other options are available.

For details on using the app, refer to the app's built-in help instructions accessed through the gear setup icon.

Figure 20. Selecting Auto Discovery

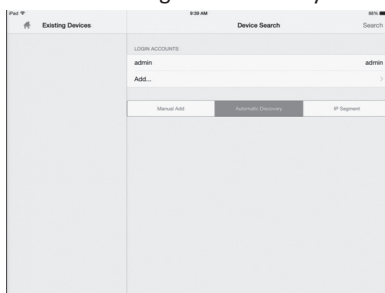


Figure 21. Discovered Cameras

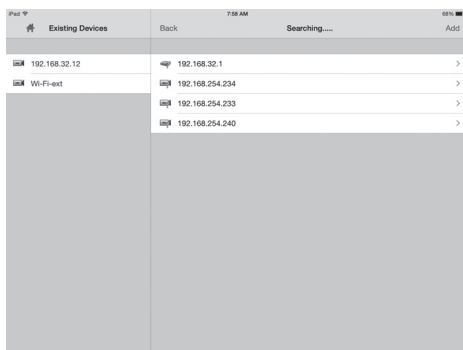
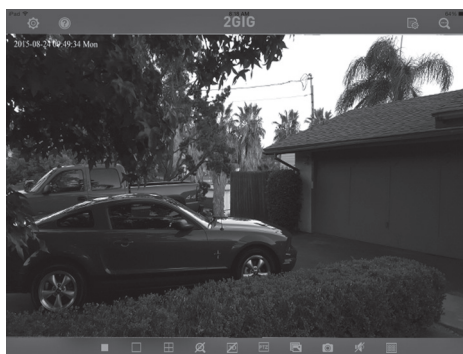


Figure 21. Viewing Camera Video



9 Camera & Network Software Setup

Refer to the Initial IP Camera & 2GIG NVR Software Setup sheet included with the camera for step-by-step details on setting up the various initial camera and network system settings.

- Determine the camera's IP address
 - Set a static IP address for the camera
 - Setup optional DDNS Server
 - Setup the camera's port numbers
 - Setup the router's Port Forwarding
 - Connect to the camera with a browser
- After the initial setup, refer to the 2GIG Camera Operation Instructions included on the Support CD for details on all camera settings available.

10 Audio/Snapshot/Playback Functions

To enable Audio (including Bi-directional audio) on the 2GIG IP Cameras, Internet Explorer with an ActiveX plug-in is required. **You cannot receive audio on Google Chrome, Apple Safari, Mozilla Firefox, Opera browsers.**

There are two steps to install ActiveX on Internet Explorer.

Internet Explorer Security Tab

1. Access this menu in Internet Explorer through the **TOOLS -> INTERNET OPTIONS** menu
2. Click on the **SECURITY** Tab. Click **TRUSTED SITES**. Click **SITES**.
3. Enter the IP Address of the IP Camera.
4. Click **CLOSE**.
5. Click **CUSTOM LEVEL**.
6. Scroll down to **DOWNLOAD SIGNED ACTIVEX CONTROLS & DOWNLOAD UNSIGNED ACTIVEX CONTROLS**
7. Set both of these options to **PROMPT**. Click **OK**.
8. Click **OK** to Save changes

Installing ActiveX control

1. With the Internet Explorer Web browser, Login to the Live Video screen of the IP Camera.
2. Click on the link "Click here to use short delay Plugin for Live Video." Click **INSTALL** on the prompt that appears. Live video with Audio Controls/Snapshot/Playback should work on the tab.

Maximum Video streams supported

The IP Cameras support Flash and ActiveX technology for video streaming. 10 concurrent video streams are supported over ActiveX, two streams are supported with Flash.

Figure 22. IP Search Tool Results

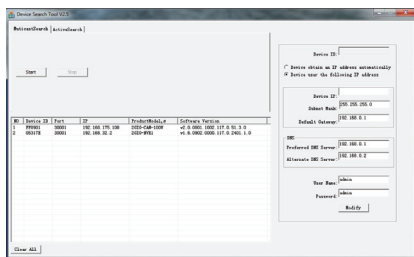


Figure 23. Camera Port Configuration

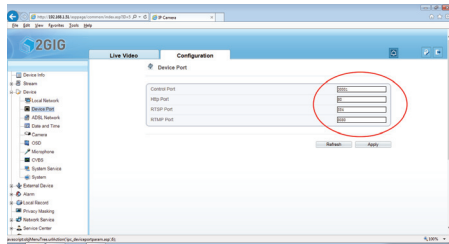


Figure 24. IE Security Tab

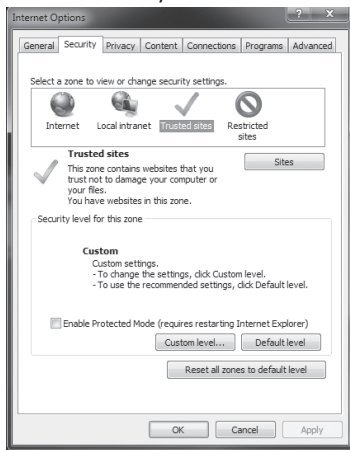
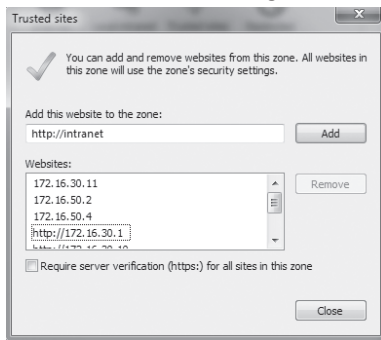


Figure 25. Trusted Sites Setting



2GIG Video Troubleshooting

Q: I cannot see the IP Camera on my network

A: Make sure that the IP Camera is powered on. Ensure that the power supply is plugged into the wall.

On the back of the 2GIG-CAM-100W IP Camera, the Power LED should be solid red. Ensure that the network cable is connected to the router/switch on the Local Area Network. If using WPS, ensure that router supports WPS and is active when syncing wirelessly with the IP Camera. If using a tablet or smart phone to detect the IP Camera, make sure the mobile device is on the same network as the IP Camera(s).

Q: The image is not clear at night

A: Check the IP cameras' lens for any smudges or moisture left from fingerprints. Wipe down with a non-abrasive towel. Also make sure that no object is blocking the path of the IR Emitter. Check the Sensor Settings in the IP Camera to verify that the Day/Night option is set to Auto. The WDR feature of the IP camera may need to be disabled when the IR LEDs are active.

Q: I cannot see Video when I am away from my house.

A: The ports needed to see the video from a mobile device is 30001. Port forward this port in the router. Use both UDP/TCP for the protocol option in the Port Forwarding section of the router. When registering the device on the 2GIG Video app, the WAN IP address will be needed from the router. The WAN IP Address can be found at the home router.

Q: I cannot view multiple high resolution video streams on my mobile device.

A: High resolution streams require high amounts of data to be processed on mobile devices. The application and mobile device have a limit on how many high resolution streams can be processed.

Q: How do I format the SD card for recording?

A: Insert the SD Card into the IP Camera(s). Refer to the installation manual for the exact location of the SD Card slot. Login to the IP Camera(s). Default User Name and Password is admin. Navigate to Device Configuration-> Record Configuration -> Record Directory. Select SD Card and press the Format Button.

Q: What if SD Card formatting fails?

A: Remove the SD Card and format it on another device such as a PC or Camera that supports SD cards. After formatting, re-insert the SD Card into the IP Camera(s) and format the SD card again in the IP Camera(s). Note that the file SD Card format needs to be ext4.

Q: What type of Wi-Fi networks are supported?

A: The Wi-Fi IP Camera works on 2.4Ghz compatible N and G networks. It is not supported on 5Ghz compatible N and AC networks.

Q: How many users can stream video at the same time on the IP Cameras?

A: When connected to the IP Camera using Flash technology the maximum number of video connections is 2. When connected to the IP Camera using ActiveX technology, the maximum number of video connections is 10.

Q: How long does it take to update the firmware on the IP Camera?

A: The Update Tool is designed to update the IP Camera firmware. Note that the firmware update process can take between 5 and 10 minutes for both wired and wireless updates.

Regulatory Information

WARNING: Changes or modifications not expressly approved by Nortek Security & Control could void the user's authority to operate the equipment.

This device complies with FCC Part 15 Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme la norme d'Industrie Canada exempts de licence RSS. Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne peut pas provoquer d'interférences, et (2) c'est appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de la dispositif.

Limited Warranty

This Nortek Security & Control LLC product is warranted against defects in material and workmanship for two (2) years. **This warranty extends only to wholesale customers** who buy direct from Nortek Security & Control LLC or through Nortek Security & Control normal distribution channels. **Nortek Security & Control does not warrant this product to consumers.** Consumers should inquire from their selling dealer as to the nature of the dealer's warranty, if any.

There are no obligations or liabilities on the part of Nortek Security & Control for consequential damages arising out of or in connection with use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or reinstallation. All implied warranties for functionality, are valid only until the warranty expires. This Nortek Security & Control Warranty is in lieu of all other warranties express or implied.

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For technical support outside of the USA and Canada:

Contact your regional distributor

Visit www.nortekcontrol.com for a list of distributors in your region

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