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GEM-TOUCH2R

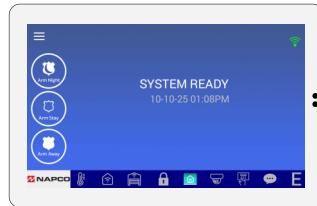
Touchscreen Tablet with Integral Wireless Receiver

Installation & Programming Instructions

WI2842.aLF 7/26

GENERAL DESCRIPTION

NAPCO's Gemini™ **GEM-TOUCH2R** is a high-resolution LCD touchscreen tablet that provides seamless access to all the features of your Gemini security system. The touchscreen is simple to use, with intuitive menu-driven icons and prompts to help guide you. The **GEM-TOUCH2R** includes an integral 319.5MHz wireless receiver to accommodate up to 255 wireless transmitter zones. The transmitters may be wireless smoke detectors, space-protection devices, window/door sensors, or other devices that report zone status and supervision information to the receiver (the same as a discrete **GEM-RECEIVER**). The **GEM-TOUCH2R** connects to the control panel's 4-wire bus and provides full GEM keypad functions as well as monitoring transmissions from each enrolled wireless transmitter, conveying all information to the control panel.



GEM-TOUCH2R
Touchscreen & Wireless Receiver

FEATURES

Each touchscreen model has many convenient features:

- Touch screen control of security system
- The model **GEM-TOUCH2R** connects to the Gemini security system 4-wire bus
- Integral 319.5MHz wireless receiver to accommodate up to 255 wireless transmitter zones
- Integrated IP video viewing of cameras
- High-speed, powerful quad core processor
- Large high-resolution 1024 x 600 pixel display for clarity
- Intuitive capacitive touchscreen display with icons and menu driven prompts
- 802.11 Wireless Wi-Fi Connectivity
- Entry/Exit countdown displayed
- Add or delete User Codes
- Quickly and easily bypass zones
- The touchscreen is one part of the integrated Napco iBridge™ Remote Control Services that include a virtual keypad, Z-Wave® Home Controls and integrated video.

COMPATIBLE CONTROL PANELS

The GEM-TOUCH2R is compatible with the GEM-P816, GEM-P1632, GEM-P1664, GEM-P3200, GEM-P9600 and GEM-X255 control panels. **Important:** A standard wired

keypad must be installed and enrolled in the system before adding a **GEM-TOUCH2R** touchscreen. In addition, be aware that this standard wired keypad must be available for arming or disarming should the touchscreen(s) be temporarily disabled during a firmware update.

DSC and Honeywell keypad skins are supported for use with the **GEM-TOUCH2R** tablet only when used with a StarLink Connect communicator and when the "Wi-Fi Only Mode" selection is enabled in the tablet's administrator settings. **Note:** Do not connect the **GEM-TOUCH2R** tablet's 4-wire bus wires to the Honeywell or DSC control panel bus. The StarLink Connect communicator requires a local CAT5 connection or a local Wi-Fi / tablet connection using an **SLE-WIFI-MODULE**. Refer to the StarLink Connect instructions for compatible Honeywell / DSC panels.

COMPATIBLE TRANSMITTERS and ORDERING INFORMATION

Any of the following Napco wireless transmitters may be used with the **GEM-TOUCH2R**. **Note:** Batteries are included with all transmitters. Units marked with an asterisk [*] are not evaluated by UL; not certified by ETL.

GEM-DT - Dual-Technology PIR / Microwave Sensor

GEM-GB* - Glass-Break Sensor

GEM-HEAT - Wireless Heat Detector 135°F / Rate of Rise.

GEM-KEYF - Mini Keyfob / Key Chain Remote Arming or
Emergency Transmitter

GEM-KEYFLR - Full-size, Long-Range Key Chain / Pendant
Remote Arming / Emergency Transmitter

GEM-PIR - Wireless PIR Motion Sensor

GEM-PIRPET - 30lb. Pet Immune PIR Motion Sensor

GEM-RCV32 - 32-Point Receiver/Interface

GEM-RCV96 - 96-Point Receiver/Interface

GEM-RCV255 - 255-Point Receiver/Interface

GEM-RTRANS - Recessed Window/Door Transmitter

GEM-SMK - Photoelectric Supervised Smoke Detector

GEM-TRANS2 Window/Door Sensor - This supervised, two-point transmitter provides an internal magnetic reed switch and/or terminals for two external normally-closed devices, or one external normally-open device

GEM-TRANSLP* - Low Profile Window/Door Sensor

GEM-WP - Wireless Waterproof Panic Button

GEMC-WL-CO - Supervised Carbon Monoxide detector

GEM-SMK-E - Supervised Digital Wireless Smoke Detector

GEM-SMK-CO-E - Supervised Digital Wireless Smoke /
Carbon Monoxide Detector

DL123A - Replacement Lithium Battery for GEM-TRANS2,
GEM-RTRANS, GEM-PIR (2), GEM-PIRPET (2) and
GEM-GB (2) (bulk packed)

*Not evaluated by UL; not certified by ETL

TABLET SPECIFICATIONS

Electrical Ratings

Speaker: 1 Integral 2W

Electrical Ratings

Screen on, idle: 300mA

Clicking menu items: 380mA. **Important:** Ensure system standby current is sufficient; if not, a separate UL-Listed Security and Signaling power-limited 12V power supply for each touchscreen is required (see wiring diagrams).

Features

CPU: Quad core processor, (up to 1.6GHz)

Wi-Fi: 802.11b/g/n with integral antenna

LCD Size: 7 inch digital screen

Resolution Ratio: 1024 x 600 x, 16:9 aspect ratio, 16.7 million colors

Pixels: 1024 x RGB (3) x 600

Touchscreen: Digital and full-screen, capacitive

Housing

Dimensions (HxWxD): 5-3/8 x 7-7/8 x 7/8 in. (13.7 x 20 x 2.2 cm)

Weight: 14.3oz (405g)

Operating Temperature: 0-49°C (32-120°F)

Storage Temperature: 20-85°C (68-185°F)

RECEIVER SPECIFICATIONS

Antenna: External Wire Antenna

SELECTING THE MOUNTING LOCATION

The **GEM-TOUCH2R** requires power supplied from the control panel keypad bus (wires are intended to be hidden within the mounting surface). **Important:** Ensure system standby current is sufficient; if not, a separate UL-Listed Security and Signaling power-limited 12V power supply for each touchscreen is required (see wiring diagrams). Mount the touchscreen indoors only, and avoid high condensation areas such as bathrooms. Avoid locations where direct sunlight or bright light shines directly on the screen.

Receiver Considerations

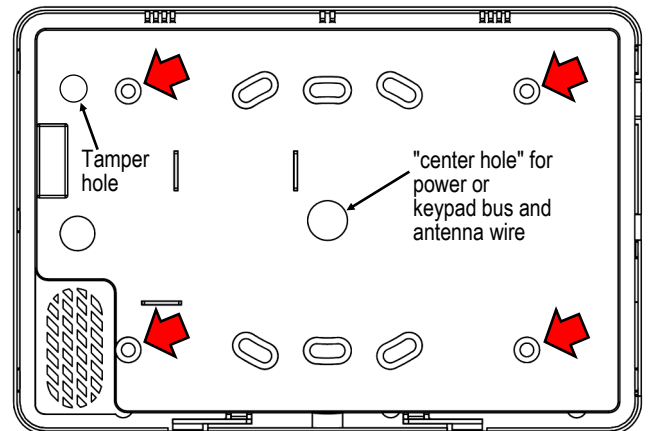
Regardless of where the control panel is mounted, the unit should be centrally located, i.e., equally distant from all transmitters. Choose a location as high above ground level as practical; metal objects may adversely affect reception. Draw a layout of the system identifying all proposed transmitter locations and the anticipated receiver location. Wood and wallboard construction has little effect upon receiver signal strength, but concrete or brick can reduce signal strength by up to 35%; steel-reinforced concrete or metal lath and plaster can reduce transmitter strength as much as 90%. **Note:** In installations with distant transmitters posing reception problems, the use of multiple GEM-TOUCH2Rs throughout the premises is recommended. (The GEM-P816, P1632, P1664 and P3200 control panels accommodate two receivers; the GEM-P9600 and GEM-X255, up to four). They should be uniquely addressed (see **ADDRESSING MULTIPLE RECEIVERS**). If additional wireless zones are needed, you may add an external **GEM-RECV Wireless RF**

Receiver provided the **GEM-RECV** and the **GEM-TOUCH2R** are each assigned a different address.

In addition to the hole in the wall used to connect the bus wires to the keypad, an additional hole should be made into the wall to allow the antenna wire to be recessed into the wall. The design of the unit keeps the antenna as far away from the bus wires as possible so that RF noise emitted from the bus wires does not affect the sensitivity of the receiver. If the placement of both these holes are not carefully considered, additional effort may be required to drill through or chisel existing wall beams. Allow at least 12 inches of clearance for the antennas to any nearby electronics or metallic objects that could interfere with reception. In addition, the tamper is located close to the antenna hole. If care is not taken to leave sufficient space between the antenna hole and the tamper, the tamper may not function correctly.

INSTALLATION - HOLLOW WALL

If installing into a 3-gang box, see instructions below. On the Mounting Template (see page 12) and also shown in the image below, note the location of the four rear case mounting holes. In addition, four slotted holes are provided for mounting to a 2-gang box. Also note the location of the center hole for use with routing the red/black/green/yellow keypad bus wires or the power wire. When the touchscreen is mounted, the rear case center hole is intended to align with the center hole on the template.



Touchscreen rear case mounting holes for hollow walls (arrows) and the "center hole" for power / keypad bus wires and antenna wire

To secure the touchscreen directly to a hollow dry wall or similar surface, proceed as follows:

1. Select a mounting location that is preferably at eye level for easy viewing and that also allows the power / keypad bus wires to be hidden within the mounting surface. At the rear of the touchscreen, make note of the center hole for the power / keypad bus wires / antenna wire (see image above).
2. With the final mounting location selected, place the Mounting Template (see page 12) on the mounting surface and mark the four touchscreen mounting holes and the center hole for power / keypad bus wires. Use a level to ensure horizontal mounting.
3. Using a 3/16" bit, drill the four touchscreen mounting holes in the mounting surface. Insert wall anchors into

- the holes and tap anchors into wall with a hammer. Use part MX1327 #6 wall anchor, supplied.
- Drill the center hole for the power / keypad bus wires in the mounting surface. Snake the keypad bus wires from the control panel (or the power wire from the DC power supply) into the *interior* of the mounting surface, then out through the center hole drilled in the mounting surface.
 - Detach the rear case from the touchscreen: Insert a flat head screwdriver into the two slots at the bottom of the touchscreen, then push and turn the screwdriver to unhook the two plastic tabs.
 - Insert the wires from the wall center hole through the center hole of the rear case. Insert screws through the four rear case mounting holes into the four wall anchors using the supplied #6 sheet metal Phillips pan head 1" screws (part SC655).
 - Connect the GEM-TOUCH2R to the black, green and yellow wires of the control panel keypad bus. The touchscreen's positive (+) red wire is connected to the power supply's positive (+). Be sure to connect the touchpad's negative (-) to the power supply negative (-) and also connect the power supply negative to the control panel's common/ground to establish a shared ground reference.
 - Push wires into the center hole in the mounting surface. After the bus wires are brought through the bus wire hole, and the keypad back case is mounted the wires can be connected as shown in the table at the right. After connecting the wires care must be taken to loop the antenna wire carefully into the antenna hole as the front cover is connected to the keypad back case. The antenna should fall easily into the wall cavity away from the keypad bus wires. The wire should hang as straight as possible below the keypad for optimal reception. Place the top edge of the touchscreen over the two hooks in the rear case and push the bottom of the touchscreen until it snaps into place.

INSTALLATION - 3-GANG BOX

If installing the touchscreen rear case directly to a hollow dry wall or similar surface, see instructions above. To secure to a 3-gang box, proceed as follows:

- Select a mounting location that is preferably at eye level for easy viewing. At the rear of the touchscreen, make note of the center hole for the power / keypad bus wires (see image on this page).
- With the 3-gang box installed, snake the keypad bus wires from the control panel (or the power wires from the 12VDC adapter) into the 3-gang box. **IMPORTANT:** In the steps that follow, be careful not to drill into the keypad bus / power wires inside the 3-gang box.
- Place the Mounting Template (see page 12) over the 3-gang box and mark the location of the four mounting holes in the 3-gang box.
- Detach the rear case from the touchscreen: Insert a flat head screwdriver into the two slots at the bottom of the touchscreen, then push and turn the screwdriver to unhook the two plastic tabs.
- Transfer the location of the four 3-gang box mounting holes marked on the template in step 3 to the touchscreen rear case.
- Using a 3/16" bit, drill the four 3-gang box mounting holes in the touchscreen rear case.
- Insert the wires from the 3-gang box through the center hole of the rear case. Insert screws through the four rear case mounting holes (that were drilled in step 6) into the four mounting holes in the 3-gang box. Use the supplied #6 sheet metal Phillips pan head 1" screws (part SC655).
- Connect the keypad bus wires to the terminal strip located inside the touchscreen (red to **+12V**, black to **-GND**, yellow to **YEL** and green to **GRN**).
- Push wires from the center hole of the touchscreen into the 3-gang box.
After the bus wires are brought through the bus wire hole, and the keypad back case is mounted the wires can be connected as shown in the table at the right. After connecting the wires care must be taken to loop the antenna wire carefully into the antenna hole as the front cover is connected to the keypad back case. The antenna should fall easily into the wall cavity away from the keypad bus wires. The wire should hang as straight as possible below the keypad for optimal reception. Place the top edge of the touchscreen over the two hooks in the rear case and push the bottom of the touchscreen until it snaps into place.

ADDRESSING THE RECEIVER

If more than one receiver is being utilized, each must be individually addressed so that it can be identified by control panel. This is accomplished by the placement of a jumper on **JP1** at the upper-right corner of the PC board. Refer to the Wiring Diagram for jumper configuration. **Note:** Each receiver leaves the factory internally configured as #1. Therefore, if only one receiver is being used, address assignment is not required.

POWER UP & INITIAL SETUP

- Apply power to the control panel, the touchscreen and the IBR-ZREMOTE / StarLink Connect radio. Upon power up, both touchscreens will start within about 5 seconds (both can be manually powered by pressing and holding the small button on the right side for 10 seconds).
- Upon power up, the **Setup Wizard** will automatically start. Follow the sequence of images as necessary for the installation type. If the **Setup Wizard** does not automatically start, go to the home screen and press/hold down the **Settings** ("hamburger") icon, enter your Dealer password to enter **Dealer Settings**, then tap **Setup Wizard**.
- Tap **Yes** and set the date, time and Time Zone. **IMPORTANT:** Outdated digital certificates will disallow connection to your network, as well as inhibiting necessary automatic firmware downloads.
- Wait for the system diagnostics process to complete. Functional components are marked with a check; items not configured or not enabled are marked with a "x". Selections are blank when the **Setup Wizard** is run for the first time. Tap **Configure** to continue.
- Select how the GEM-TOUCH2R will be used. If it will only be used as a security system keypad, tap **Keypad Only** (opens the **Configure Local Wi-Fi** screen). To include video camera and Z-Wave functions, tap **Full Functionality** (opens the **Configure Cameras** screen).
- If you have older iSeeVideo cameras, tap **ISEE Series Cameras**; if your system includes the newer **ISV2** mod-



- els, tap **ISV2 Series Cameras**; for systems without cameras, tap **No Cameras** (cameras can always be added later). **Note:** **ISEE** and **ISV2** cameras cannot be combined.
- To connect through the customer's wireless router, check **Enable WiFi**; select the router name from the pull-down and have the customer type their router Password (click the "Refresh" button to the right of the pull-down if the customer's router is not listed). When finished, tap **Save & Next**.
 - Wait until the message indicates the connection to the customer's wireless router is complete, then tap **Next**.
 - The system will then automatically try to connect to the "local" *StarLink Connect* radio or the *iBridge (zRemote) Z-Wave Controller* that is physically located "locally" (i.e. inside the premises). When connected, tap **Finish**.
 - If you selected **Keypad Only** in step 5, the virtual security system keypad will appear (shown below). Stop here -- you're finished! If you selected **Full Functionality**, you're almost finished...go to the next step...
 - The GEM-TOUCH2R will automatically attempt to connect, through the "cloud", to either the NAPCO *StarLink Connect* radio account or the NAPCO IBR-ZREMOTE Z-Wave Controller account. Enter your administrator account **User ID** and **Password** and tap **Finish**. Upon connection to the Internet-based account for either the *StarLink Connect* radio or the IBR-ZREMOTE, the resulting keypad displayed will be configured for the payment plan selected by the customer. For example, smart phone notifications and camera video.
 - Verify the touchscreen display reflects the current status of the security control panel. **Note:** To check Wi-Fi status, tap the **"Signal"** icon on the home screen.



Signal icon

PROGRAMMING THE TOUCHSCREEN

"KEYPAD ADDRESS" AND "KEYPAD TYPE"

Each **GEM-TOUCH2R** touchscreen must have its own unique *Keypad Address*; in addition, the *Keypad Type* ("skin") must be defined. Before proceeding, the **Setup Wizard** must be performed. The **Setup Wizard** begins automatically when the touchscreen is first started, but can also be manually started in both the **Dealer Settings Menu** (see page 5) and the **User Settings Menu** (see page 8).

- For **Setup Wizard** step-by-step instructions for connecting the touchscreen to an existing Wi-Fi Network (networks without an ISEE-WAP), see the **NAPCO GEM-TOUCH2R Quick Start Guide** (WI2927) available at <http://tech.napcosecurity.com/>.

The *Keypad Type* ("skin") is factory set as a GEM-RP1CAe2 "Classic" style keypad and is set to *Keypad Address* #1. These factory settings can be changed if required. To change the *Keypad Type* and *Keypad Address*, the touchscreen must be powered on; the GEM-TOUCH2R must be wired to the control panel keypad bus and must have a local wireless connection to the "local" *StarLink Connect* radio or the IBR-ZREMOTE Controller that is physically located "locally", i.e. inside the premises and connected to the control panel.

- Put the control panel into Keypad Configuration Mode by moving the configuration jumper to the bottom two pins ("**CONFIG**"), located on the control panel motherboard.

- At the bottom of the **GEM-TOUCH2R** Home Screen, tap the keypad icon. After putting the control panel into Keypad Configuration Mode (performed in step 1 above), it takes up to 40 seconds for the keypad on the **GEM-TOUCH2R** to read "out of system". The keypad will display **"01 Out of System RCM MODULE"**.
- Enter **1 1 1 2 3 FUNCTION** to enter Keypad Configuration Mode.
- Tap **FUNCTION** repeatedly until the keypad displays **"Keypad Address"**.
- Enter the correct address number and tap **ON/OFF** to save. (**Note:** You must tap **ON/OFF** or the Keypad address will not change).
- Tap **FUNCTION** repeatedly until the keypad displays **"Keypad Type RP1CAE2"**.
- Tap **INTERIOR** or **INSTANT** to toggle between the keypad model names. Either select **"RP1CAE2"** for the "Classic" keypad type or **"K1CA"** for the "K Style" (Stay/Away) keypad type. When selected, tap **ON/OFF** or **ENTER** to save, and then tap **RESET** to exit.
- Return the control panel **CONFIG** jumper back to the top two pins ("**NORM**"). **"System Ready"** should appear on the keypad if all zones are closed.
- Verify the **Keypad Type** ("Skin") in **Dealer Settings**: Go to the home screen, press/hold down the **Settings** ("hamburger") icon, enter your Dealer password. Verify the **Keypad Type** ("Skin") under **Security Settings > Keypad Skin** on page 7.



ENROLL TRANSMITTERS

(Also see **Quick Method**, which follows).

For each transmitter, enter:

- the zone number to which the transmitter will be mapped;
- the 6-digit ID Code: 1-digit checksum number printed on the transmitter and box;
- the wireless point number.

Note: When programming the ID Code at the keypad,

press for "A"
 press for "B"
 press for "C"
 press for "D"
 press for "E"
 press for "F"

Press to save and NEXT () to continue.

Key Fob Transmitters. Referring to the programming instructions for the control panel, enter the following:

- an assigned Key Fob Transmitter number (1 - 16);
- the Area number(s) to which the Key Fob Transmitter is designated;
- the 6-digit hexadecimal identification code with 1-digit checksum number printed on the transmitter (enter all numbers and/or letters, including leading zeros, if any);
- Aux. 1 options (see programming worksheets);
- Aux. 2 options (see programming worksheets).

Quick Method

If a receiver is already installed in the panel, Napco Transmitter wireless points can be programmed automatically

("enrolled"). Note: (1) The transmitter point will be enrolled only if the signal strength is 3 or greater. (2) Enroll a single-point device by merely powering it up. (3) *Quick Method* is not applicable to Keyfob Transmitters.

Enter the Program Mode. Scroll to the RF Transmitter Points entry screen and proceed as follows.

1. Enter the zone number to which the transmitter point will be mapped.
2. Press **[BYPASS]** to enter the Enroll Mode. The red and green LEDs on the keypad will flash and will display as shown below (GEM-RP1CAe2).

ZN# XMIT# +CS P
ZN01-ENROLL:A--

3. Open the loop of the point that is to be programmed.
4. Install the transmitter battery. The keypad will indicate that the point has been successfully enrolled.

Multi-Point Transmitters can be mapped to successive zones simultaneously (Example 1) or to selected point by point. (Example 2).

Example 1: A 2 point transmitter has the ID Code number 410078. Map the two points to Zones 11 and 12 respectively.

1. Enter the Enroll mode as described in step 2 above.
2. Enter Zone "11".
3. Open the loops of points 1 and 2.
4. Install the transmitter battery. The keypad will beep twice to indicate that two points have been

Transmitter 410078, point 1 will be mapped to Zone 11
Transmitter 410078, point 2 will be mapped to Zone 12
The keypad will now display Zone 12, the last zone enrolled.

Example 2. A 2-point transmitter has the 1D Code number 287613. Map point 1 to Zone 6 and point 2 to Zone 9.

1. Enter the Enroll mode as described above.
2. Enter Zone 06.
3. Open point-1 loop.
4. Install the battery. The keypad will beep once to indicate that one point has been programmed. (Transmitter point 1 will be mapped to Zone 6).
5. Enter Zone "09".
6. Open point-2 loop.
7. Remove the transmitter battery, then re-install it. The keypad will beep once to indicate that one point has been programmed. (Transmitter 287613, point 2 is Zone 9.)

CHECKING TRANSMITTERS

The status of each transmitter may be checked at the keypad. Referring to the control panel installation instructions and the user's guide for the keypad in use, display transmitter status to show (a) the zone to which transmitter point is mapped; (b) the transmitter's 6-digit RF ID number (c) the point number; (d) transmitter status (normal, open, low battery, etc.); and (e) the signal strength of its last transmission.

Signal Strength

Relative signal strength is displayed on a scale of 1-10, with 10 being the strongest. A reading of "No Data S—" denotes that a report from that not yet been received. Readings less than "3" indicate reception is poor and may be unreliable. In this case, the use of a second receiver located closer to the is advisable. For installations that include several transmitters, multiple receivers may be connected to the panel. (Only the highest signal strength will be displayed).

Note: When using the Fault-Find Mode on wireless zones, the keypad will beep when the zone is opened or closed only if the signal strength of the transmitter is 3 or greater.

WIRELESS SYSTEM TROUBLES

The following system-trouble codes displayed at the keypad (s) are related to wireless operation.

Transmitter Troubles

Note: Also displayed with the transmitter trouble code are the zone number ("NN") to which Point 1 is mapped and the transmitter's identification number.

WI LOBATT - E05-NN. Transmitter low battery. **Note:** If all transmitters will be installed simultaneously, we recommend replacing all batteries to avoid service callbacks.

LOBATT KEYFOB - E18-NN. Keyfob transmitter low battery.

WL TRBL - E04-NN. Supervisory failure. indicates that a transmitter has not "checked in" within the programmed timeout. Check the transmitter for a dead battery (see note above). Also, check for an object in the path of the transmitter blocking reception.

WL TAMPER - E15-NN. Tamper condition Indicates that a transmitter case is open . Re-install cover.

Receiver Troubles

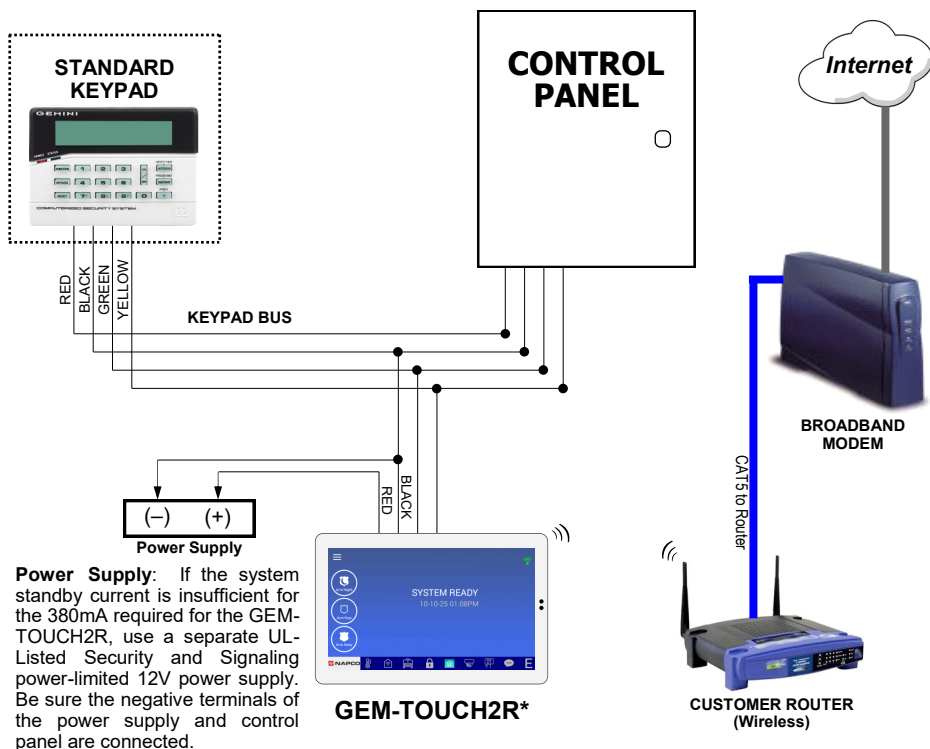
Note: Also displayed with the receiver trouble code is the receiver number ("NN").

RF REC JAMMED - E16-NN. Transmitter interference from nearby radio-frequency source.

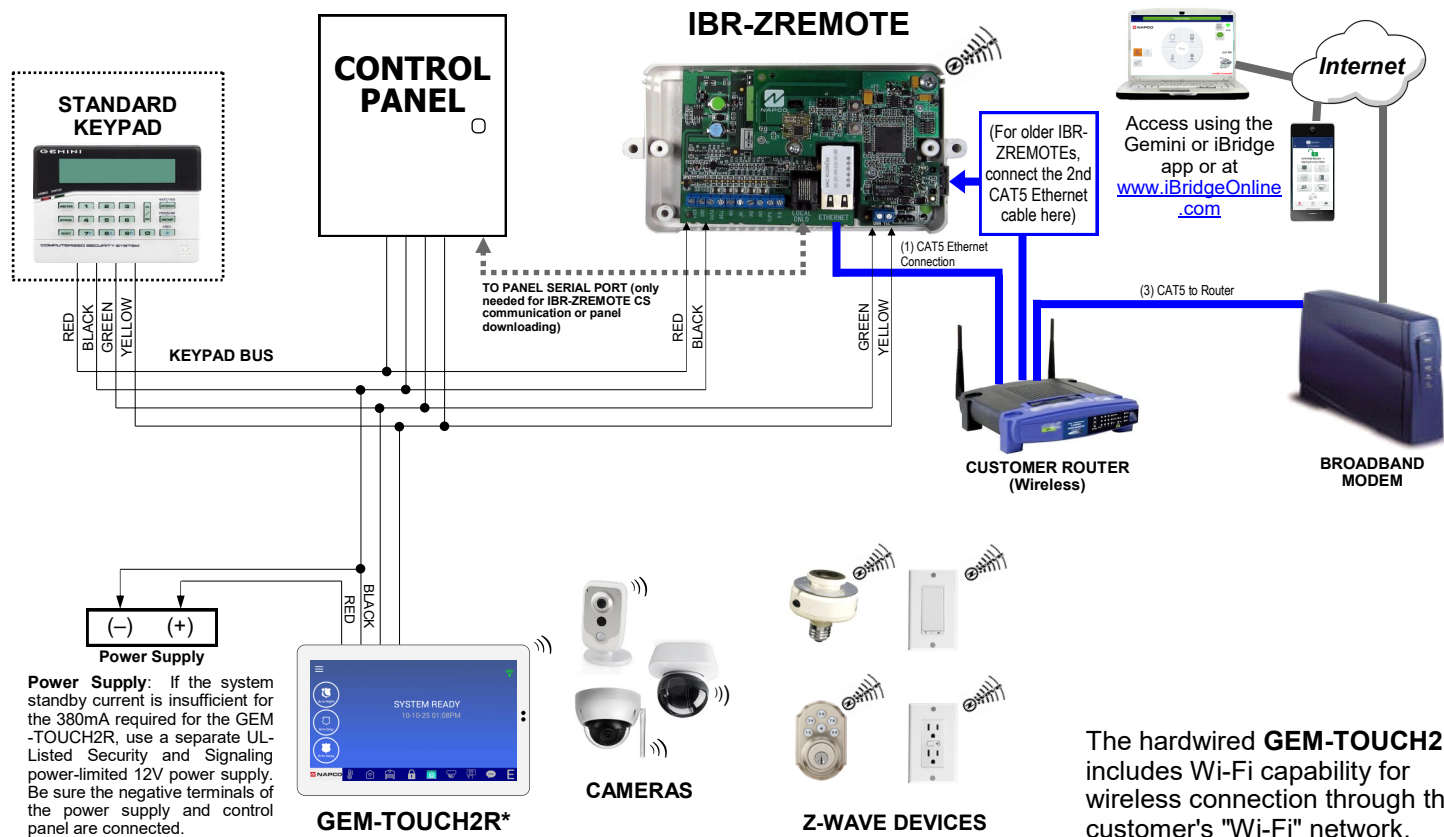
RF REC RES TRBL - E06-NN. Receiver response trouble (data failure between receiver and control panel). Check the wiring between the receiver and the panel.

RF REC TAMPER - E17-NN. Receiver open. Install cover.

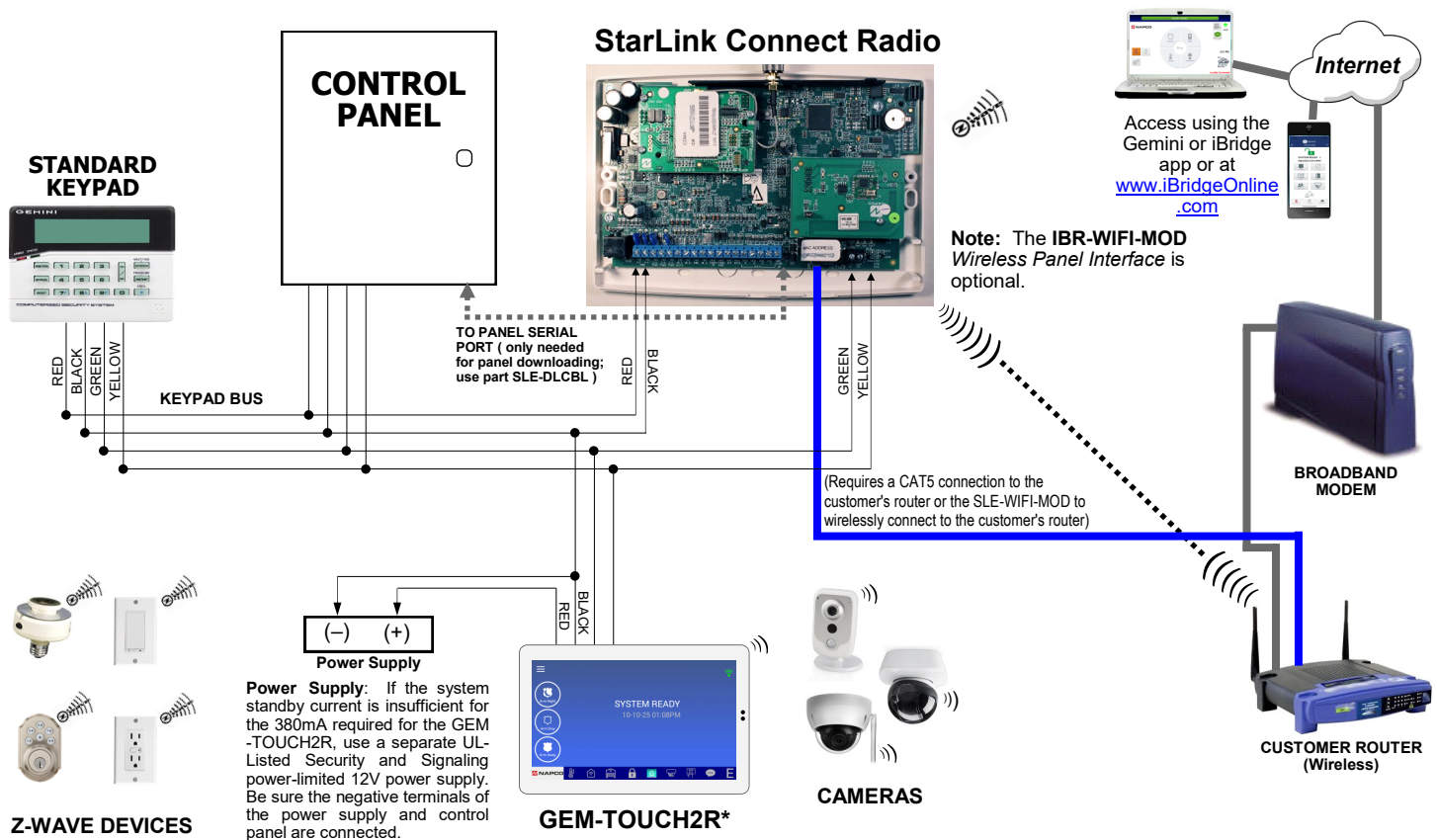
1: WIRING OVERVIEW with the GEM-TOUCH2R only ("Keypad Only" Mode)



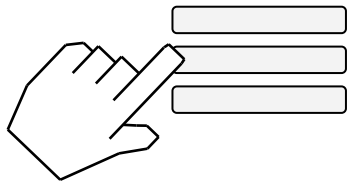
2: WIRING OVERVIEW with the IBR-ZREMOTE



3: WIRING OVERVIEW with a StarLink Connect Radio



DEALER & USER SETTINGS MENUS



GEM-TOUCH2R App Home Screen Settings ("Hamburger") Button

The above system **Settings** ("hamburger") button can display either a list of "user-only" selections (adapted for home/business owners), or a list of "dealer-only" selections (customized for installers), depending on the how this button is selected:

- **Dealer Settings:** To display the list of "dealer-only" selections, *press and hold down* this button (password required)
- **User Settings:** To display the list of "user-only" selections, simply tap this button once

When accessing the **Dealer Settings**, (again, by pressing and holding this button), a popup appears requesting a password. This password request signifies that the **Dealer Settings** menu will be displayed. Type the dealer password (default is **"admin"**) and tap **OK**. Tap **Yes** to the warning popup that appears, and the **Dealer Settings** menu opens.

For Z-Wave menu selections, see the **Using your iBridge® GEM-TOUCH2R Series Z-Wave® Home Automation System** (OI449).

DEALER SETTINGS

Setup Wizard

Tap to re-start the Setup Wizard to configure how the GEM-TOUCH2R will be used, its Wi-Fi connection settings to the customer's Wi-Fi network and iBridge radio, and optionally the NAPCO StarLink account(s).

Diagnostics

Tap to run a system diagnostics test for components selected the last time the **Setup Wizard** was run (typically when the touchscreen was first powered). Functional components are marked with a check; items not configured or not enabled are marked with an "x". Selections are blank when the Wizard is run for the first time. If you wish to continue through the **Setup Wizard** (described below), tap **Configure**; otherwise tap **Continue to App** to return to the Home Screen (or **Test Again** to repeat the test).

Security Settings

Keypad Skin: For DSC and Honeywell, refer to the documentation included with the StarLink communicator.

Tap to open a list of selections:

- **Classic:** GEM-RP1CAe2 keypad keys ("INTERIOR", "INSTANT" and "ON/OFF")
- **K Series Stay/Away:** GEM-K1CA keypad keys ("STAY", "AWAY" and "ENTER")
- **DSC:** Keypad compatible with the *Digital Security Controls* DLS programming software (

(continued from previous page)

Dealer Settings Menu

- **Honeywell:** Keypad compatible with the Honeywell Compass® Downloader for Windows® software

Z-Wave: Select the protocol compatible with your Z-Wave system. The series selected, either 300 (selected by default) or 500 will differ in features, battery life, bandwidth, wireless range, etc. Refer to your Z-Wave documentation for requirements and specifications.

EZ-Arm: Tap to enable or disable Easy Arming; i.e., the ability to arm the alarm system quickly by simply tapping **ENTER** or **ON/OFF, Night, Away** or **Stay**. Each touchscreen may be individually programmed for Easy Arming. Disarming still requires entry of a valid user code. **Note:** Do not program Easy Arming in UL installations. The alarm control panel must be programmed to support this feature.

Easy Exit: Tap to enable/disable Easy Exit. Easy Exit restarts the Exit delay (as indicated on the keypad display) allowing a User to exit an armed premises without disarming and rearming the system. **Note:** Do not program Easy Exit in UL installations. The alarm control panel must be programmed to support this feature.

of Zone Area 1: Some systems may be divided, or partitioned, into smaller independent subsystems, which are referred to as *Areas*. Tap to select the number of Areas in the alarm system. **Note:** Each Area may be controlled by its own touchscreen or by a touchscreen of a different Area through Managers Mode (a low-security operating mode that allows arming by Area).

Connection Settings: Displays the network communication and automatic identification settings used between the GEM-TOUCH2R and the customer's router (and/or IBR-ZREMOTE / StarLink radio).

Serial Interface: Indicates "Enabled" if GEM-TOUCH2R ("hardwire" model) is used.

IP Address: Tap to specify the private TCP/IP protocol address used for communications between the GEM-TOUCH2R and the customer's router (and/or IBR-ZREMOTE / StarLink radio). **Note:** The current IP address is displayed on the Connection Settings screen.

Port No.: Tap to specify the port number used for network activities as set by the IBR-ZREMOTE or StarLink radio (the current number is displayed at the bottom of the Connection Settings screen).

Auto Discovery Options: "Enabled" allows for the ongoing automatic recognition of and connection between the GEM-TOUCH2R and the IBR-ZREMOTE or StarLink radio. Includes discovery and ports established during the initial handshake process.

Time Interval to Request Status: Tap to specify the duration (in seconds) between Auto Discovery process activations. **Note:** The current interval is displayed on the Connection Settings screen.

Connect using Wi-Fi Only

When checked, signals received into the 4-wire bus terminals (inside the GEM-TOUCH2R) are ignored, with the exception of the two power terminals (thus the touchscreen can be powered by the control panel 4-wire bus or by wiring power directly to the power terminals). **Note:** Using Wi-Fi only will

disable the ability to use the internal RF receiver; the result will be an E-06 RF RCVR trouble.

Tablet Settings

Connection:

Create/Change Custom ISEE-WAP: Select this feature to modify the factory default network settings of the ISEE-WAP and touchscreen. The **Preferred Network** dialog appears, allowing a new **Wi-Fi Name** (SSID) and a new secret **Key** to be entered. Note that this information can be changed at any time by re-running this feature. **Note:** The ISEE-WAP and all wireless cameras in the system must be unlocked before using this feature.

Configure Wireless Camera: When wireless cameras are first powered, they (by default) automatically attempt to connect with the first ISEE-WAP that answers using the default **SSID** of "PUBLIC". This feature requests all cameras within range to attempt to connect with an ISEE-WAP using the custom **SSID** and secret **Key** previously created in the menu item named **"(1) Change/Create CUSTOM IBRIDGE ISEE-WAP SSID and KEY"** described above. **Note:** All wireless cameras in the system must be unlocked before using this feature (will read "Camera is unlocked" in popup).

Lock Down IBRIDGE ISEE-WAP: Tap to protect the ISEE-WAP / touchscreen connection by a "lock down" process, ensuring a fixed connection between the ISEE-WAP / touchscreen device pairs. This selection disables the automatic connection process that attempts to connect the touchscreen with the first ISEE-WAP that answers using the default **SSID** of "PUBLIC".

Unlock IBRIDGE ISEE-WAP: To reverse the "Lock Down" process described in the previous menu selection.

Restart Wi-Fi: Tap to perform a "warm boot" restart operation of the Wi-Fi, where the power is not turned off and back on, and with the app running.

Minutes to Check Connection Integrity: Tap to set the number of minutes the touchscreen will automatically attempt a restoration of the wireless connection between the touchscreen and the customer's router should this connection be interrupted. Selectable durations are: 1, 3, 5, 7, 10, 15 and 20 (minutes).

BSSID used to LOCKDOWN IBRIDGE: Tap to enter a new "broadcast" SSID (named "BSSID" in this menu) to be stored in the touchscreen's memory, to be used by default when the touchscreen is rebooted, powered off/on or emerges from Screen lock.

Factory Default:

Tap to remove all user data and restore the GEM-TOUCH2R back to its original out-of-box factory condition.

App and OS Update

Server Address: Displays the IP Address and Port number used by the network server when the menu selection **Check For Updates** (described below) is tapped.

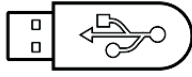
Check Updates: Tap to automatically check to see if a newer version of the touchscreen firmware is available from the location specified in the **"Source"** menu item (described above). If a newer version is available,

(continued from previous page)

Dealer Settings Menu

ble, follow the on-screen prompts to load the firmware update files, as necessary.

USB App Update: Select if the new firmware update is located on USB memory (such as a thumb drive, portable hard drive, memory stick, etc.), and you wish to use the USB socket located on the side of the GEM-TOUCH2R to re-



-install the firmware. **Note:** The update file must be placed in a folder named "napco" (case sensitive) located in the top root directory.

Update Logo: Insert a USB thumb drive to add your logo image to the Home Screen and "Keypad Skin". The logo must be named "logo.png" (case sensitive) and must be located in a folder named "dealerLogo" (case sensitive) located at the top root directory of the thumb drive. When this logo is added successfully and later the logo is tapped, the touchscreen opens its default browser to the webpage specified in the **Update Infopage** menu selection, detailed below. **Note:** Although the touchscreen searches for the specific file name "logo.png", the image file itself may be a .png, .bmp or .jpeg format. However, the file must be re-named "logo.png".

Update Infopage: Insert a USB thumb drive to add an image that will display website or other corporate information. The file must be named "dealer.png" (case sensitive) and must be located in a folder named "dealerLogo" (case sensitive) located at the top root directory of the thumb drive. When a logo is added to the Home Screen using the **Update Logo** menu selection (see above) and this logo is later tapped, the "dealer.png" image file will appear enlarged on the touchscreen.

USB OS Update: Select to update the Android operating system. Be sure the update .zip file (WinZip) is located in the top root directory of the USB drive (such as a thumb drive, portable hard drive, memory stick, etc.). Use the USB socket located on the side of the GEM-TOUCH2R to install the OS. Once inserted into the USB socket, tap this selection (if already inserted, remove and re-insert). Allow up to 15 seconds for the update process to begin; once started, DO NOT remove the USB drive!

Current Version: Displays the current version number of the GEM-TOUCH2R firmware.

Server Address: Displays the web address from which the app and operating system updates are obtained.

Password Configuration: Allows you to change the password used to access the **Dealer Settings** menu. In the **Change Settings password** popup that appears, press the empty field with the flashing cursor to open an on-screen keyboard, allowing you to type the new password. Check the optional **"Show password"** checkbox to view the populated characters. Press **"Change Password"** to enter or **"Cancel"** to exit without changing.

Video

Allows changes to the video data settings received by the GEM-TOUCH2R. **Note:** This **Video** menu selection appears (and all of the selections below) only if **"ISEE Series Cameras"** is selected in the Setup Wizard (see the NAPCO **GEM-TOUCH2R** Quick Start Guide (WI2927) for more information about the Setup Wizard).

Camera List

Camera Auto Discovery: Check to allow the touchscreen to automatically attempt to capture and display video stream data found within the network to which the touchscreen is connected. This feature is designed to operate within the iSeeVideo system. See <http://www.napcosecurity.com/video.html> for more information.

Configure Wireless Camera: Allows the touchscreen to remotely change the wireless settings of the selected camera. When this feature is selected, be aware that the network path from the touchscreen to the IBR-ZREMOTE / StarLink Connect radio and to the camera may take several seconds to be established.

Note: When selected, a popup appears, that reads:

"Please make sure to first connect an Ethernet cable to the router and to then connect power to the camera. Do you wish to proceed with Wireless Camera Configuration?"

1. The camera must be powered and wirelessly connected to the network before proceeding.
2. Tap **Yes** to proceed or **No** to exit without saving any changes. If you tap **Yes**, the touchscreen will scan the network and all available cameras will be listed (by IP address) in the Camera List that appears. Tap to select a camera in the list, and a **Configure Wireless Camera** popup appears, allowing you to either Lock or Unlock the selected camera. Locking the camera will ensure a permanent connection between the camera and the touchscreen.
3. Select either the **Lock** or **Unlock** radio button, and tap **Configure** to proceed or tap **Cancel** to exit without saving changes.

Camera Manual Discovery: Allows you to browse for and select to use a specific camera attached to the iBridge network using the touchscreen. The following two steps ("**Select...**" and "**Discover...**" shown below are required:

1. **Select camera to discover:** (Step 1): Tap to select the camera you wish to discover and capture its video stream data.
2. **Discover IP Camera:** (Step 2): Tap to initiate the network scanning process to discover the selected camera. Upon discovery, the video will be available for display from the touchscreen Home Screen (**Video** button).

Launcher Settings

(Reserved for NAPCO use only)

Home Settings

Hide Clock / Show Clock - Remove or display the clock located at the upper right corner of the Home screen.

Weather Options - Local weather reports can be displayed on the Home Screen.

Refresh Frequency: Tap to set how often to automatically update the weather report feed. Selections include

(continued from previous page)

Dealer Settings Menu

5, 10, 15, 20, 30, 40, 50, 70, 80, 90 and 100 minutes. More frequent updates increase data use and slightly decrease battery life between charges.

Weather: Tap to enable/disable a weather report feed on the Home Screen. When "Disabled" is displayed in the **Weather** icon, the weather feed is removed from the Home Screen. **Note:** To customize the weather report feed to a particular Zip Code, see the following menu entries below.

Zip Code: Tap to associate the weather report feed to the area of the United States specified by the Zip Code entered. Remove (delete) Zip Code to disassociate the weather feed from this Zip Code.

Automation Clock - Tap to synchronize the IBR-ZREMOTE module or StarLink communicator internal clock with the same time as the GEM-TOUCH2R.

Keypad Only - Enabled when "Keypad Only" is selected in the Setup Wizard (see below). When enabled, the virtual security system Gemini keypad is continually displayed (the home screen is never displayed). **Note:** The User Setting "**Enable KeySwitch Arming**" (detailed above) must first be disabled.

Modify Z-Wave

For dealers who wish to disallow customer changes to the home automation Z-Wave system, ensure "**Modify Z-Wave Settings Disabled**" is displayed to disable the **User Settings** menu feature named "**Automation Management**". Conversely, when "**Modify Z-Wave Settings Enabled**" is displayed, the **User Settings** menu feature named "**Automation Management**" allows control of the Z-Wave home automation components within the system using the "**User Settings**" menu (where a Dealer Settings password is not required).

Automation Management

Opens the **Automation Management** screen, allowing the configuration of Z-Wave devices, including the assignment of devices to Groups, the creation of Z-Wave Events, etc. See the **Z-Wave® Home Automation User Guide** (OI449) for more information.

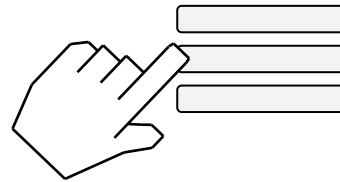
Emergency Button

Tap to enable/disable the "**E**" (Emergency) button on the GEM-TOUCH2R Home Screen. If disabled, although the "**E**" (Emergency) button will appear on the Home Screen, it will be disabled and the message, "**Permission Denied. Please Contact Dealer.**" will appear when tapped.

Login URL

Not Used; do not change this selection.

USER SETTINGS



GEM-TOUCH2R App Home
Screen Settings
("Hamburger") Button

Setup Wizard (see **DEALER SETTINGS**) **Note:** In User Settings, a limited wizard is available (with Wi-Fi and iBridge credentials only). Use this feature in Dealer Settings for full functionality.

Diagnostics (see **DEALER SETTINGS**)

Wi-Fi Signal Strength

Tap to analyze the strength of the wireless connection between the GEM-TOUCH2R and the customer's router. When installing the GEM-TOUCH2R, be sure the large "Wi-Fi Icon" is colored green (OK) to ensure a strong wireless signal. In addition, the signal strength in dBm units (signal level relative to 1 milliwatt) is provided for those more familiar with readings expressed using standard radio communication terminology. The dBm units are expressed in negative numbers; therefore the higher the negative number, the weaker the signal. For example, a reading of -20 is stronger than -30.

Clean Screen

Allows you to safely clean the touchscreen display surface without making changes to the system. Tap to set a length of time during which all inputs to the system through the touchscreen are disabled. Enter a time in seconds, tap **Yes**, and the screen will turn black with dark gray numbers counting up to the number of seconds entered, then will count down to zero and return to normal operation. For example, entering "20" will disable the keypad for a total of 40 seconds.

LED Level

Provides a sliding bar to control the brightness of the red and green LEDs located on the face of the tablet.

Tablet Settings

Sound: Controls sound intensity and feedback settings (unavailable with some models).

Volumes: Set the sound for video, Notifications and Alarms.

Touch sounds: Check to enable feedback sound made when certain onscreen items are touched.

Display: Allows changes to the GEM-TOUCH2R display screen

Brightness: Tap to open a sliding status bar control. Increase or decrease the screen brightness by sliding your finger left or right across the status bar

Sleep: Specifies how much user idle time (touchscreen is operational but not being used) must elapse before the screen dims. The default setting is "never".

Note: When this feature is enabled and the screen dims, the GEM-TOUCH2R also enters "sleep mode", an inactive state to save power. To re-awaken, simply touch the screen or a non-screen

User Settings Menu

button. Screen timeout selections include **15 seconds**, **30 seconds**, **1 minute**, **2 minutes**, **10 minutes**, **30 minutes** and **never**.

Font size: Controls the size of the lettering that appears in the Dealer and User Settings menus.

Date & Time:

Automatic date & time: When checked to enable, retrieves date/time data automatically from network resources. When enabled, the next two selections are ghosted ("grayed out" and not selectable).

Set date: Tap to open a dialog that allows the month, day and year to be manually set in the GEM-TOUCH2R. **Note:** The "Automatic" menu selection (above) must be unchecked to enable this menu item.

Set time: Tap to open a dialog that allows the current time to be manually set in the GEM-TOUCH2R. **Note:** The "Automatic" menu selection (above) must be unchecked to enable this menu item.

Select time zone: Tap to select a time zone to be used in the touchpad.

Use 24-hour format: Check to display 24-hour military time, as measured in hours numbered to twenty-four from one midnight to the next. For example, 3:23 pm would be displayed as "15:23".

About Tablet:

Update OS via USB: Select to update the Android operating system. Be sure the update .zip file (WinZip) is located in the top root directory of the USB drive (such as a thumb drive, portable hard drive, memory stick, etc.). Use the USB socket located on the side of the GEM-TOUCH2R to install the OS. Once inserted into the USB socket, tap this selection (if already inserted, remove and re-insert). Allow up to 15 seconds for the update process to begin; once started, DO NOT remove the USB drive!

Kernel version: For NAPCO use only. Details the version of the kernel within the operating system of the GEM-TOUCH2R.

Build Number: The file name of the firmware currently running.



Reboot Tablet

Tap (and tap **OK** to the warning popup) to re-start the GEM-TOUCH2R.

Home Settings (see DEALER SETTINGS)

Automation Management (see DEALER SETTINGS)

KeySwitch (Enabled/Disabled)

When enabled, allows a zone input to be used to arm/disarm the security system. The Area will arm/disarm when the programmed zone is momentarily shorted through use of a momentary switch. See the setting **Home > Set Keypad as the Only View**, on page 7.

Voice

Tap to enable or disable GEM-TOUCH2R touchscreen voice prompts.

Buttons Settings

Tap to open the **Configure Buttons** screen, allowing you to select the button icons that appear at the bottom of the Home screen: *Climate*, *Automation*, *Garage Door*, *Locks*, *Video*, and *Keypad*.

Version

Displays the current version number of the GEM-TOUCH2R firmware (bottom of the User Settings screen).

PROGRAMMING WHEN USED WITH THE IBR-ZREMOTE

CONTROL PANEL FIRMWARE

IMPORTANT: Before upgrading firmware, the control panel program must be uploaded to be re-downloaded when the upgrade is complete.

The alarm control panel must have the correct firmware version installed to use all features of the IBR-ZREMOTE and the new iBridge Messenger service:

- **PCD-Windows Quickloader:** V6.12 or greater (located on the enclosed IBR-ZREMOTE support CD)
- **Control panels GEM-X255, P9600 and P3200** require firmware version **V60A23** or greater (included in IBR-ZREMOTE box)
- **Control panels GEM-1664, P1632 and P816** require firmware version **V31A** or greater (included in IBR-ZREMOTE box)
- New **"NO EPROM" GEM-P3200, P9600 or X255** control panels require firmware version **V71K** or greater (CD included in the IBR-ZREMOTE BOX)

Note: The following version control panels may be upgraded for iBridge compatibility:

- GEM-P3200 and P9600 controls running firmware version 20 or greater, released in May of 1999
- All GEM-X255 control panels
- Any new GEM-P3200, GEM-P9600 or GEM-X255 control panel running V70 or greater firmware does **not** require an EPROM upgrade, it is iBridge compatible out of the box.
- GEM-P816 and GEM-P1632 control panels running firmware version 10D or greater, released in November of 2005. The PC board revision number can be identified by the revision number inside the triangular shaped sticker affixed to the PCB (requires 32 pin EPROM socket in the control panel)
- All GEM-P1664 control panels

UPGRADING THE EPROM CHIP

A. If installing the IBR-ZREMOTE on a previously programmed control panel, launch Quickloader V6.12 (or greater) and upload the control panel program configuration to an account on your PC. In all cases ensure a conventional keypad is connected at keypad address 1 for steps that follow.

B. Remove power from the control panel, disconnect the

battery wires and replace the EPROM with the new version.

- C. Power the control panel, reconnect the battery wires, enter Direct Address Program Mode and Cold Start the panel:

To cold start the GEM-P186, GEM-P1632 or GEM-P1664 Control Panels:

1. Enter Dealer Program Mode from keypad #1 (the default Dealer Code is 4 5 6 7 8 9).
2. Once in Dealer Program Mode, press **Reset**.
3. In Direct Address Programming Mode, enter the following address:
 - Panel firmware V11 and lower, enter address **1198**; firmware V30 and higher, enter address **2286**
4. Press the **ON / OFF** button to save.
5. Press **Reset** twice to exit Dealer Program Mode. Verify the keypad display reads: **E09-00 Cold Start**.

To cold start the GEM-P3200, GEM-P9600 or GEM-X255 Control Panels:

1. Enter Dealer Program Mode from keypad #1 (the Master Security Code is printed on the silver shield inside the control panel housing). Once in Dealer Program Mode, press **Reset**.
2. In Direct Address Programming Mode, enter address 4093.
3. Press the **ON / OFF** button to save.
4. Press **Reset** twice to exit Dealer Program Mode. Verify the keypad display reads: **E09-00 Cold Start**.

- D. Download the saved control panel program configuration back into the control panel or create and download new control panel programming.

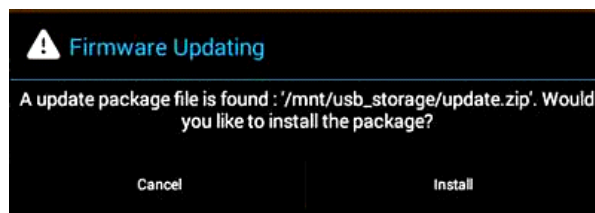
PROGRAMMING THE IBR-ZREMOTE IN QUICKLOADER V6.12 (or greater)

In Quickloader V6.12 (or greater), in **Keypad Assignment**, select the keypad address you will set up in step 5 for the IBR-ZREMOTE, and change the keypad address **Type** to "RCM" and add the keypad into the Area (see image at right), select **EZ Arm** (6 columns to the right on the same screen). In the **Keypad Features** tab, check **"Disable Code-Required-for-FM-Level 1"** (GEM-P3200 / P9600 / X255 panels only).

UPDATING THE TOUCHSCREEN FIRMWARE WITH USB DRIVE

To update the touchscreen firmware with a USB drive, the "update.zip" file must be located in the top root directory (the top root folder) of the USB drive. The name of the update file must be "update.zip" (cAsE sEnSiTiVe).

1. At the Home Screen, insert the USB drive into the USB socket located on the side of the unit and wait for the light on the USB drive to turn on.
2. Tap the **Settings** button ("gear" icon) or on the home screen you can tap the "hamburger" icon.
3. Tap **Tablet Settings > About tablet > Update OS Via USB**. The update process will start within about 15 seconds. When the following popup appears, tap **Install**.



4. After several minutes, a popup will appear indicating the update process is complete (tap **OK**).

Note: An alternative to the above process is to simply power down the unit, insert the USB drive, power up the unit and wait for the popup shown in step 3 (above) to appear.



GEM—TOUCH2R

333 Bayview Avenue, Amityville, New York 11701
 For Sales and Repairs, (800) 645-9445
 For Technical Service, (800) 645-9440
 or visit us at Tech.NapcoSecurity.com
 (Note: Technical Service is for security professionals only)
 Publicly traded on NASDAQ Symbol: NSSC

SEE WI2842LF

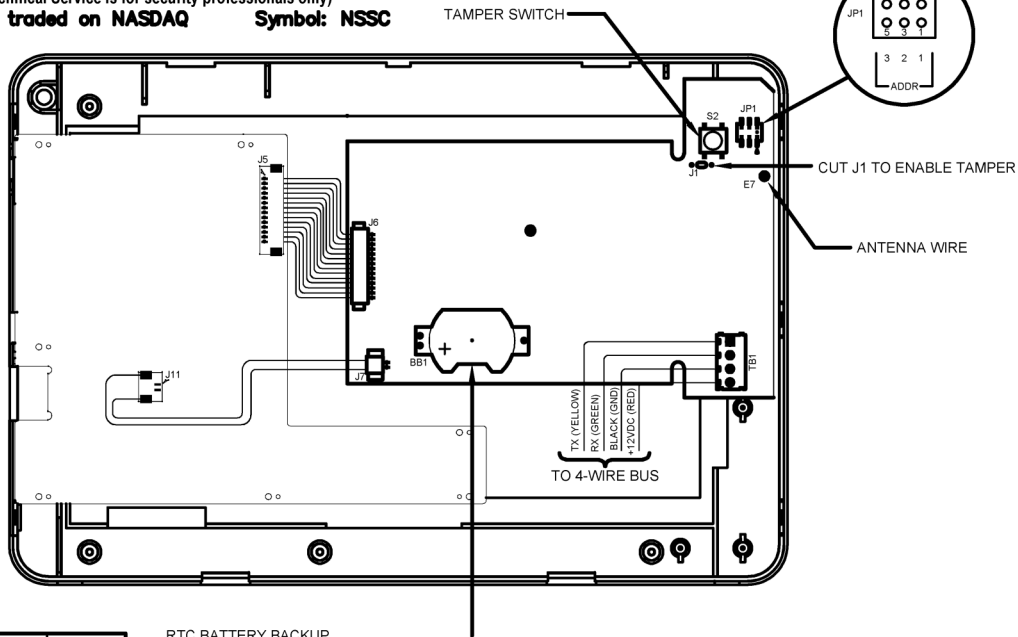
Electrical Ratings:

12VDC

Screen on, idle: 300mA

Clicking menu items: 380mA

Important: Ensure system standby current is sufficient; if not, a separate UL-Listed Security and Signaling power-limited 12V power supply for each touchscreen is required (see wiring diagrams)



Device/Port	3	2	1
Receiver 1	OFF (5-6)	OFF (3-4)	OFF (1-2)
Receiver 2	ON (5-6)	OFF (3-4)	OFF (1-2)
Receiver 3	OFF (5-6)	ON (3-4)	OFF (1-2)
Receiver 4	ON (5-6)	ON (3-4)	OFF (1-2)

RTC BATTERY BACKUP

REPLACE THE LITHIUM BATTERY WITH A DURACELL CR2032 OR DURACELL DL2032 OR ENERGIZER ECR2032VP. USE OF ANOTHER BATTERY MAY PRESENT A RISK OF FIRE OR EXPLOSION

RECEIVER ADDRESS NOTE:

RECEIVER 1: NO JUMPERS ON PIN 1-2, PIN 3-4, PIN 5-6

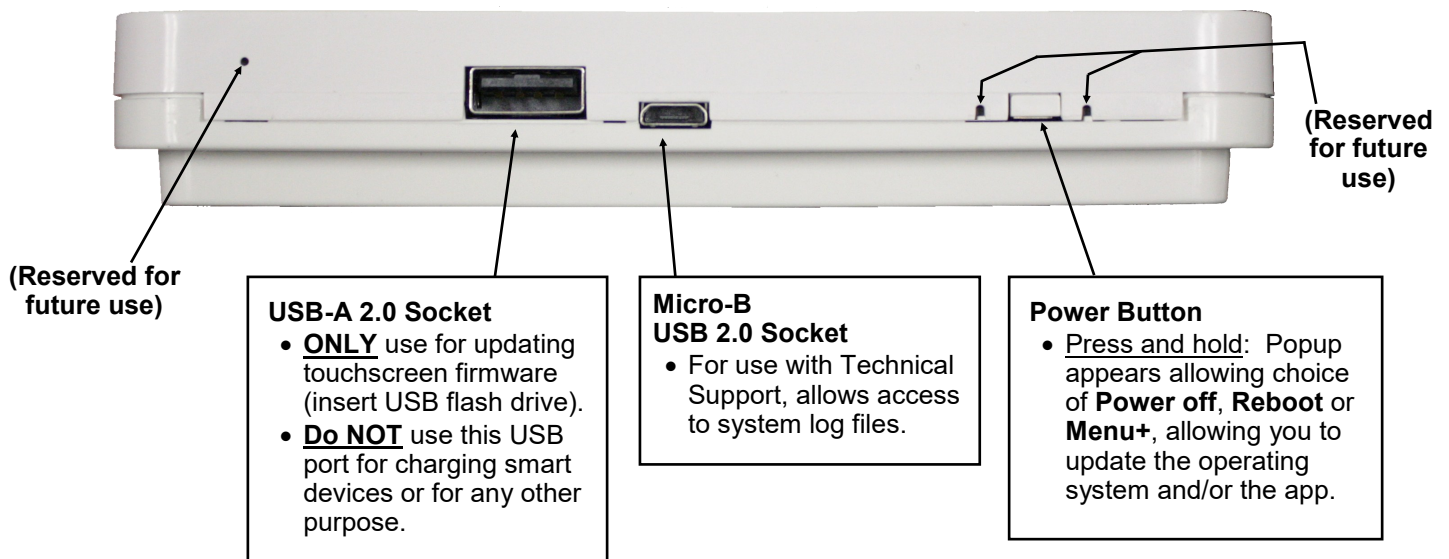
RECEIVER 2: NO JUMPERS ON PIN 1-2 AND PIN 3-4. INSTALL JUMPER ON PIN 5-6

RECEIVER 3: NO JUMPERS ON PIN 1-2 AND PIN 5-6. INSTALL JUMPER ON PIN 3-4

RECEIVER 4: NO JUMPER ON PIN 1-2. INSTALL JUMPERS ON PIN 3-4 AND PIN 5-6

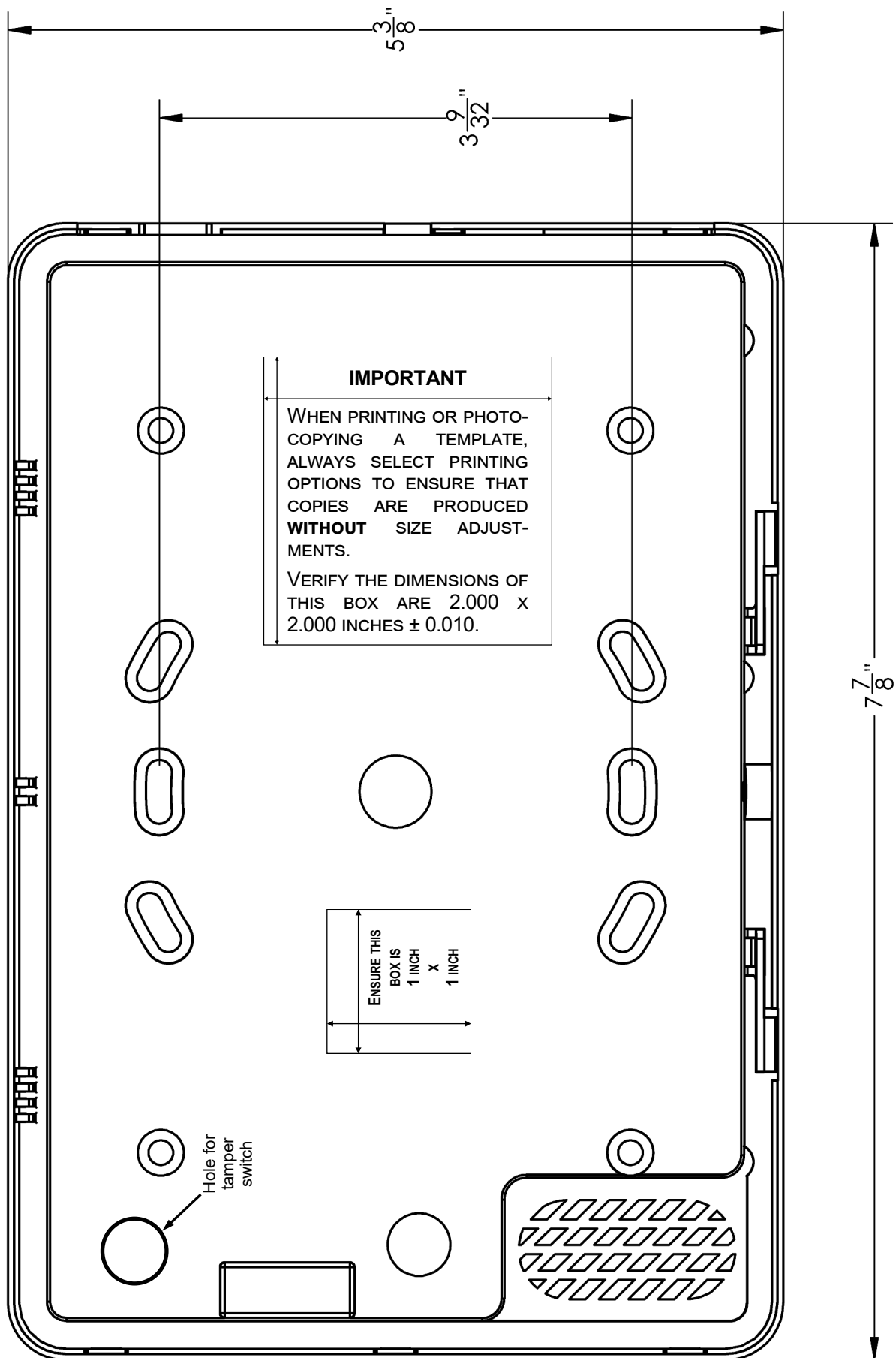
LA3968LF

PROFILE SIDE BUTTONS AND FEATURES



NOTES

MOUNTING TEMPLATE



NAPCO LIMITED WARRANTY

NAPCO SECURITY TECHNOLOGIES, INC. (NAPCO) warrants its products to be free from manufacturing defects in materials and workmanship for *thirty-six months* following the date of manufacture. NAPCO will, within said period, at its option, repair or replace any product failing to operate correctly without charge to the original purchaser or user.

This warranty shall not apply to any equipment, or any part thereof, which has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to acts of God, or on which any serial numbers have been altered, defaced or removed. Seller will not be responsible for any dismantling or reinstallation charges.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THERE IS NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. ADDITIONALLY, THIS WARRANTY IS IN LIEU OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF NAPCO.

Any action for breach of warranty, including but not limited to any implied warranty of merchantability, must be brought within the six months following the end of the warranty period. IN NO CASE SHALL NAPCO BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

In case of defect, contact the security professional who installed and maintains your security system. In order to exercise the warranty, the product must be returned by the security professional, shipping costs prepaid and insured to NAPCO. After repair or replacement, NAPCO assumes the cost of returning products under warranty. NAPCO shall have no obligation under this warranty, or otherwise, if the product has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to accident, nuisance, flood, fire or acts of God, or on which any serial numbers have been altered, defaced or removed. NAPCO will not be responsible for any dismantling, reassembly or reinstallation charges.

This warranty contains the entire warranty. It is the sole warranty and any prior agreements or representations, whether oral or written, are either merged herein or are expressly cancelled. NAPCO neither assumes, nor authorizes any other person purporting to act on its

behalf to modify, to change, or to assume for it, any other warranty or liability concerning its products.

In no event shall NAPCO be liable for an amount in excess of NAPCO's original selling price of the product, for any loss or damage, whether direct, indirect, incidental, consequential, or otherwise arising out of any failure of the product. Seller's warranty, as hereinabove set forth, shall not be enlarged, diminished or affected by and no obligation or liability shall arise or grow out of Seller's rendering of technical advice or service in connection with Buyer's order of the goods furnished hereunder.

NAPCO RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

Warning: Despite frequent testing, and due to, but not limited to, any or all of the following; criminal tampering, electrical or communications disruption, it is possible for the system to fail to perform as expected. NAPCO does not represent that the product/ system may not be compromised or circumvented; or that the product or system will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; nor that the product or system will in all cases provide adequate warning or protection. A properly installed and maintained alarm may only reduce risk of burglary, robbery, fire or otherwise but it is not insurance or a guarantee that these events will not occur. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. Therefore, the installer should in turn advise the consumer to take any and all precautions for his or her safety including, but not limited to, fleeing the premises and calling police or fire department, in order to mitigate the possibilities of harm and/or damage.

NAPCO is not an insurer of either the property or safety of the user's family or employees, and limits its liability for any loss or damage including incidental or consequential damages to NAPCO's original selling price of the product regardless of the cause of such loss or damage.

Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, or differentiate in their treatment of limitations of liability for ordinary or gross negligence, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

FCC Statement

1. 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.
2. The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes, or modifications not expressly approved the party responsible for compliance could void the users authority to the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.
3. (b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual: **NOTE:** This 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 help.

4. RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.