Thank you for purchasing this fine product. Your satisfaction is very important to us. Please read this manual carefully to get the most from your new product.

HOW THE PRODUCT WORKS
STI offers multiple wireless products designed to alert you of several different conditions. The STI 8-CHANNEL RECEIVER is a 433 MHz radio signal receiver that allows you to monitor up to 8 different STI devices at a single, convenient location. When placed in enroll mode, it allows you to select 1 of 8 different zones that will represent your STI device(s) best, and enrolls it when the monitor detects the STI device’s wireless signal. The STI wireless device family uses a system that also ensures other devices (not from STI) are not enrolled or detected. There are no concerns of accidental enrollment, alerts or crosstalk.

The RECEIVER allows you to choose which devices shall have a latching memory condition, when selected during enrollment. It also allows you to select turning on a siren, sounding a chime, triggering a normally open or normally closed switch or turning on an external 12 VDC output. The STI 8-CHANNEL RECEIVER also acts as a console repeater when paired with other STI 8-CHANNEL RECEIVERS to receive wireless transmissions in up to 4 other areas over long distances or around disruptive terrain.

BEFORE YOU START
Refer to this drawing to become familiar with all the parts.
INSTALLATION GUIDE

Surface Installation
1. Ensure mounting screws are removed.
2. Insert rubber feet (provided) into holes on bottom cover.
3. Route wires under the product.

Wall Mounted Installation
1. Ensure rubber feet are removed.
2. Remove front cover screw.
3. Mark mounting holes on wall using bottom cover as template.
4. Drill holes with 3/16" drill bit.
5. Insert wall anchors (provided).
6. Insert power cord and wires and route on the back.
7. Insert mounting screws (provided) into PCB holes through back of cover.
8. Insert mounting screws into wall anchors and tighten.
9. Press fit push button onto the push button switch on the circuit board.
10. Insert top cover tabs into bottom cover slots.
11. Carefully close top cover ensuring the push button inserts into cover hole and antennas rest in the side cover grooves.
12. Insert front cover screw and tighten.
13. Plug in AC adaptor.

If using for the first time or for enrollment adjustments, follow Zone Enrolling instructions. Otherwise, STI 8-CHANNEL RECEIVER should be fully functional.
COMPONENT DESCRIPTIONS (Top Side)

Switches (1-8) - For reference, information is also written on the RECEIVER case (located under Zone ID list).
1 - MIRROR MASTER OFF/ON
2 - NORMAL/ENROLL
3 - AUTO RESTORE/LATCH
4 - SIREN TIME/MIRROR#
5 - SIREN TIME/MIRROR#
6 - CHIME OFF/ON
7 - NORMAL/DELETE
8 - MIRROR SLAVE OFF/ON

<table>
<thead>
<tr>
<th>Switch #</th>
<th>DESCRIPTION</th>
<th>ON (Switch UP)</th>
<th>OFF (Switch DOWN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW1</td>
<td>MASTER RECEIVER SETTING</td>
<td>ENABLED (Only active when SW8 = ON)</td>
<td>DISABLED Switch on only for Mirror Master</td>
</tr>
<tr>
<td>SW2</td>
<td>ENROLL DEVICES</td>
<td>ENABLED (Only active while SENSOR is being enrolled)</td>
<td>DISABLED LED turns on when triggered</td>
</tr>
<tr>
<td>SW3</td>
<td>ALARM LATCHING</td>
<td>ENABLED</td>
<td>DISABLED LED turns on when triggered</td>
</tr>
<tr>
<td>SW4</td>
<td>RECEIVER# / SIREN TIME</td>
<td>RECEIVER# (when SW8 = ON)</td>
<td>SIREN TIME (when SW8 = OFF) Note: Siren can turn off upon button press.</td>
</tr>
<tr>
<td>SW5</td>
<td>ON = 1</td>
<td>(SW4)(SW5) 00 = Mirror #1 10 = Mirror #2 01 = Mirror #3 11 = Mirror #4</td>
<td>(SW4)(SW5) 00 = 0 Second (Silent) 10 = 30 Seconds 01 = 180 Seconds 11 = Continuously ON</td>
</tr>
<tr>
<td>SW6</td>
<td>RECEIVER CHIME</td>
<td>ENABLED (when device is triggered)</td>
<td>DISABLED Chime sounds a double beep when device is triggered.</td>
</tr>
<tr>
<td>SW7</td>
<td>DELETE DEVICES</td>
<td>ENABLED</td>
<td>DISABLED Normal Operation</td>
</tr>
<tr>
<td>SW8</td>
<td>MIRROR MODE</td>
<td>ENABLED Enables Mirror Mode. Enables SW1. SW4/5 indicate RECEIVER#. Turns on RECEIVER# (SW4/5) transmissions.</td>
<td>DISABLED Enables Mirror Mode. Disables SW1. SW4/5 indicate ALARM TIME. Turns off mirrored transmissions.</td>
</tr>
</tbody>
</table>

Push Button - Selects zone to enroll or delete, acknowledge latched alert (resets LED to GREEN), silences alarm.

LEDs (1-8) - Each enrolled SENSOR or mirrored RECEIVER has an LED that indicates the current state of that zone from the top LED (Zone 1) down to the bottom LED (Zone 8). The zone states, in order of precedence, are:
- LED RED = zone alarm
- LED RED (flashing) = zone latched (zone was in alarm and returned to normal)
- LED AMBER = SENSOR trouble (battery or SENSOR tamper trouble detected)
- LED GREEN = zone normal
- LED off = zone not enrolled

Sounder - Audio feedback for siren, chime/beeps, zone enrollment and deletion.
NORMAL OPERATION

The RECEIVER receives 433 MHz radio signals from numerous STI sensors enrolled to the RECEIVER. It provides feedback in the form of LED colors, onboard sounder annunciation, onboard sounder siren, switched on or off output terminals (Form C contacts), a 3 second 12 VDC @ 75mA max. output on the triggered output plug and 12 VDC output terminals powered at the same time as the onboard sounder.

LED Operation

The LED status with higher importance is emitted by the LED. The LED importance is as follows (highest to lowest):

- **Red LED**: Zone enrolled, Alert status
- **Flashing Red LED**: Zone enrolled, Latched and Non-Triggered status
- **Amber LED**: Zone enrolled, Tamper Alert and Non-Triggered status
- **Green LED**: Zone enrolled, Normal and Non-Triggered status
- **LED OFF**: Zone not enrolled

Onboard Sounder Operation

- **Siren Mode** – SW4 and SW5 (settings)
  The onboard speaker gives a 4 KHz @ 90dB sound for the SIREN TIME set by SW4 and SW5 when any zone’s alert signal is received (see Component Descriptions for siren times).
  
  **NOTE**: Chime/Beep mode must be turned off, (SW6 OFF), for the siren mode to activate.

- **Chime/Beep Mode** – (SW6 ON)
  The onboard speaker gives a double beep when any zone’s alert signal is received. Chime/Beep mode overrides the siren mode.

Sensor Operation

A SENSOR sends a 433 MHz radio signal to the RECEIVER that will indicate one or more of the following: Alert triggered; restored to normal; sensor tampering; low battery; lost signal.
Enrolling Sensors into Zones
1. Check that the module is not in DELETE mode (SW7 OFF).
2. If the zone should have "latching" set (SW3 ON).
3. Enable ENROLL mode set (SW2 ON).
4. Check the zone flashing GREEN is correct, and note the zone(s) with RED LEDs.
5. Change the status of the SENSOR to be enrolled by triggering an alert on the SENSOR and return it to the non-triggered state (if done manually).
6. The RECEIVER will give a double beep and the zone LED will change to continuous RED.
7. Repeat steps 2-6 to enroll another SENSOR.
8. To exit ENROLL mode set (SW2 OFF).

Sensor Installation Tip
When first enrolling a SENSOR, set the “latching” on (SW3 ON), and bring the SENSOR to the RECEIVER location to enroll it before mounting the SENSOR. Then, mount the SENSOR at its intended location and trigger an alert on the SENSOR. Check the zone on the RECEIVER to see if it is continuous RED or flashing RED, which means it received the SENSOR’S signal. Then, if latching is not desired, delete that zone (see Deleting Single Zones) and enroll the SENSOR again without latching (SW3 OFF), from the mounted location.
**Keyfob Operation**

An STI Keyfob can be used to remotely turn off and on the LEDs, sounder, and outputs on the STI 8-Channel Receiver and also act as a CALL or MANUAL ALERT button. While the STI 8-Channel Receiver is turned off, it will continue to monitor the sensor signals.

To use an STI keyfob, you can separately enroll the Left/Right buttons and ON/OFF buttons to the receiver. To use a single STI keyfob with a Master + Mirror Receiver System, enroll the keyfob to each receiver to be used in the system before adding the Mirrored receivers to the system. To use multiple keyfobs to independently control each receiver, enroll each keyfob to its respective receiver before adding the Mirrored receivers to the system.

**Enrolling Keyfob On/Off Buttons**

Keyfob ON/OFF buttons do not enroll into zones. The keyfob ON/OFF buttons will turn on and off all 8-Channel receiver outputs. Cycling these buttons remotely activates the push button.

1. Check that the module is not in DELETE mode (SW7 OFF).
2. Enable ENROLL mode set (SW2 ON).
3. Press either the ON or OFF button on the keyfob.
4. The RECEIVER will give a double beep. ON/OFF keyfob buttons will not be assigned to a zone LED.
5. Repeat steps 2-4 to enroll another keyfob.
6. To exit ENROLL mode set (SW2 OFF).

**NOTE:** The RECEIVER will only operate with 8 keyfob Left/Right buttons enrolled into zones and 8 keyfob ON/OFF buttons enrolled into memory. If a ninth keyfob’s ON/OFF button is enrolled, the keyfob’s ON/OFF buttons enrolled first will be deleted.

**Enrolling Keyfob LEFT/RIGHT Buttons**

Keyfob LEFT/RIGHT buttons enroll into a zone. The keyfob LEFT button is a CALL or MANUAL ALERT button and the RIGHT button is a RESTORE. Follow the same steps for Enrolling Sensors into Zones and Deleting Single Zones for the Keyfob LEFT/RIGHT buttons.

**Mirrored Receiver Operation**

The LEDs, the sounder, the siren time and the 12VDC output activation will duplicate the sensor settings enrolled on the master RECEIVER. If a sensor is enrolled to a mirrored RECEIVER instead of the master, a transmission from the master RECEIVER will override the mirrored RECEIVER’S LED status. To use any STI keyfob with a master + mirror RECEIVER system, enroll keyfob to mirrored RECEIVER before adding the mirrored RECEIVER to a system.

**Enrolling Mirrored (multiple) Receivers**

The LEDs, the sounder, the siren time and the 12VDC output activation will duplicate the sensor settings enrolled on the master RECEIVER. If LED “latching” is desired on the mirrored RECEIVER, this must be selected at the time of the mirrored RECEIVER’S enrollment.

**NOTE:** If a SENSOR is enrolled to a mirrored RECEIVER in error (instead of the master), a transmission from the master RECEIVER will override the mirrored RECEIVER’S LED status.

1. Check that the module is not in DELETE mode (SW7 OFF).
2. Use SW4 and SW5 to select the mirror number 1-4 if not the master (see Component Descriptions).
3. Enrolling mirrored RECEIVERS is performed in sequential pairs:

<table>
<thead>
<tr>
<th>Pair</th>
<th>Column A</th>
<th>Column B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Master</td>
<td>Receiver 1</td>
</tr>
<tr>
<td>2</td>
<td>Receiver 1</td>
<td>Receiver 2</td>
</tr>
<tr>
<td>3</td>
<td>Receiver 2</td>
<td>Receiver 3</td>
</tr>
<tr>
<td>4</td>
<td>Receiver 3</td>
<td>Receiver 4</td>
</tr>
</tbody>
</table>

**NOTE:** All SENSORS are enrolled only to the master RECEIVER. The mirrored RECEIVERS copy the master RECEIVER’S output (except latch settings) sequentially thru RECEIVERS 1 - 4.

4. Set SW1 and SW8 (ON) on the master RECEIVER.
5. Set SW8 (ON) on each mirrored RECEIVER.
6. Enable ENROLL mode, SW2 (ON), on the two RECEIVERS being paired together.
7. Press and release the Push Button on the Column A RECEIVER (above). The Column B receiver will give a double beep.
8. Press and release the Push Button on the Column B RECEIVER (above). The Column A RECEIVER will give a double beep.

**NOTE:** If Column B RECEIVER was previously enrolled to Column A RECEIVER and was not deleted, the Column A RECEIVER will not double beep, but will work properly.

9. Disable ENROLL mode, SW2 (OFF), on both RECEIVERS.
10. Press and release the Push Button of the Column A RECEIVER (above). The LED’s of the Column B RECEIVER will light in the same configuration.

**NOTE:** Keyfobs must be enrolled into each master or mirror RECEIVER where it will be used.
Enrolling Sensors into Master + Mirror Receiver Systems (with or without latching)

When using a master + mirror RECEIVER system, the latching feature is set independently on the master and/or mirror RECEIVERS. Latching on the master and/or mirrored RECEIVERS is only set for a zone at the time the SENSOR is enrolled into the master RECEIVER. You will need to set (SW2 ON) and (SW3 ON or OFF) for each RECEIVER at the time of SENSOR enrollment.

1. Check that each RECEIVER is not in DELETE mode (SW7 OFF).
2. Set desired “latching” on each system RECEIVER. A RECEIVER set to (SW3 ON) will have latching. The RECEIVER set to (SW3 OFF) will only indicate the zone status.
3. Set each RECEIVER to ENROLL mode, (SW2 ON), that will store the latch setting.
4. Check that the zone flashing GREEN on the master RECEIVER is correct, and note the zone(s) with RED LEDs.
5. Trigger an alert on the SENSOR being enrolled and return it to the restored state (if restore is triggered manually).
6. The RECEIVER will give a double beep and the zone LED will change to continuous RED.
7. Repeat steps 2-6 to enroll another SENSOR.
8. To exit ENROLL mode, set (SW2 OFF) on the master RECEIVER.
9. Set all master and/or mirror RECEIVERS (SW3 OFF).

System Examples

DELETING SINGLE ZONES (Sensors and Keyfobs)

1. Enter DELETE mode (SW7 ON). All enrolled zone LEDs will turn RED. The first zone to be deleted will have the LED flashing RED.
2. Press and release the push button to cycle the flashing LED through the zones until it reaches the zone to be deleted.
3. Press and hold the push button for 5 seconds to delete the zone with the flashing LED. The RECEIVER will give a single beep and the LED will turn off. Release the push button.

DELETING ALL ZONES (Sensors, Mirrored Receivers and Keyfobs)

You must delete all zones in order to delete keyfobs and/or a mirrored RECEIVER.

1. Enter DELETE mode (SW7 ON). All enrolled zone LEDs will turn RED. The first zone to be deleted will have the LED flashing RED.
2. Press and hold the push button for 5 seconds. The RECEIVER will give a single beep and the flashing LED will turn off. Continue to hold the push button.
3. After the first zone is deleted and while still holding the push button, all other enrolled zones will flash for 5 seconds. The RECEIVER will give a double beep and all of the LEDs will turn off when those zones are deleted.
WARNINGS
FOR INDOOR USE ONLY. Keep RECEIVER away from water and/or damp areas.

WARRANTY INFORMATION
Safety Technology International, Inc. warrants to the original consumer/purchaser that this product shall be free of defects in material and workmanship under normal use and circumstances for a period of one (1) year from the original date of purchase.

ADDITIONAL WIRELESS ALERT SERIES PRODUCTS

STI-34098 Single Channel Slave Receiver
STI-V34104 4-Channel Voice Receiver
STI-34108 8-Channel Receiver
STI-34188 8-Zone Relay Board
STI-34101 Solar Powered Driveway Monitor Sensor
STI-34151 Battery Powered Driveway Monitor Sensor
STI-34201 Wireless Mail Alert Sensor
STI-34301 Wireless Garage Sentry Sensor
STI-34401 Wireless Universal Alert Sensor
STI-34501 Wireless Door Entry Alert® Sensor
STI-34601 Wireless Doorbell Button
STI-34701 Indoor Wireless PIR
STI-34752 Outdoor Wireless PIR
STI-6200WIR Wireless Fire Extinguisher Theft Stopper
STI-6200WIR4 Wireless Fire Extinguisher Theft Stopper w/Receiver
STI-6400WIR Wireless Exit Stopper Door Alarm
STI-6400WIR4 Wireless Exit Stopper Door Alarm with Receiver
STI-6517A Wireless Stopper Station Shield with Sound
STI-6517B Wireless Stopper Station Shield with Sound & Transmitter
STI-6517C Wireless Stopper Station Shield with Wireless Transmitter
STI-6517D Wireless Stopper Station Shield with Button Sound and Transmitter
STI-30105 Extended Antenna
STI-34105 Voltamax 12VDC (500mA) Power Supply
STI-34106 Keyfob

Inst. Sht. 8-Channel Wireless DEC2012