INSTRUCTIONS

ST-C5IDS
CAT5 Intercom Door Strike Relay Module

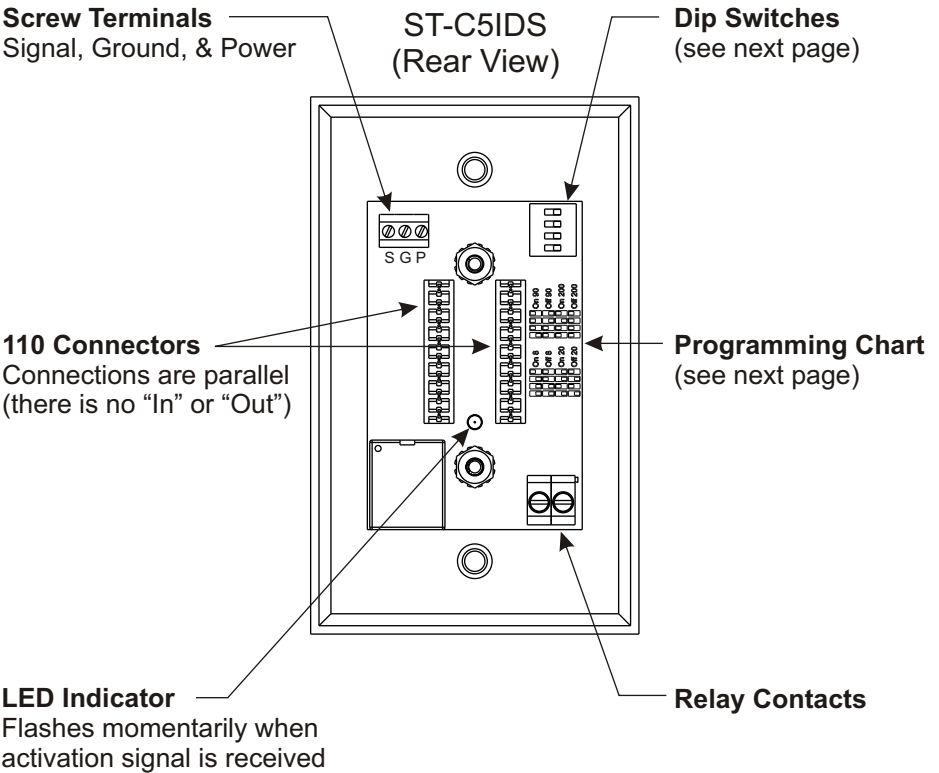The **ST-C5IDS** is a relay module that provides a contact closure whenever it is activated by the Channel Vision CAT5 Intercom System. The contact closure can be used to activate an electronic door strike mechanism or gate opener. This allows the homeowner to answer the door from any intercom station in the house and gives them the ability to unlock the door or open the gate with the press of a button.

Features:
- Compatible with Channel Vision CAT5 intercom system
- Relay settings for N.O. and N.C. Operation
- Variable relay times
- Screw terminal and 110 connectors
- LED indicator for easy troubleshooting
- Mounts in a single-gang box

Screw Terminals
Signal, Ground, & Power

ST-C5IDS
(Rear View)

Dip Switches
(see next page)

110 Connectors
Connections are parallel
(there is no "In" or "Out")

Programming Chart
(see next page)

LED Indicator
Flashes momentarily when
activation signal is received

Relay Contacts

Setting the Dip Switches

There are four dip switches on the ST-C5IDS that allow you to set the duration of the relay's operation. Use the programming chart shown next to the switches as a guide to help you choose the best setting for your application. Note that the settings are labeled in pairs, such as "On 8" and "Off 8." If you choose the "On 8" setting, the relay will be Normally Open (N.O.), and then it will close for 8 seconds when the relay is activated by the intercom system. If you choose the "Off 8" setting, the relay will be Normally Closed (N.C.) And then it will open for 8 seconds when the relay is activated by the intercom system.
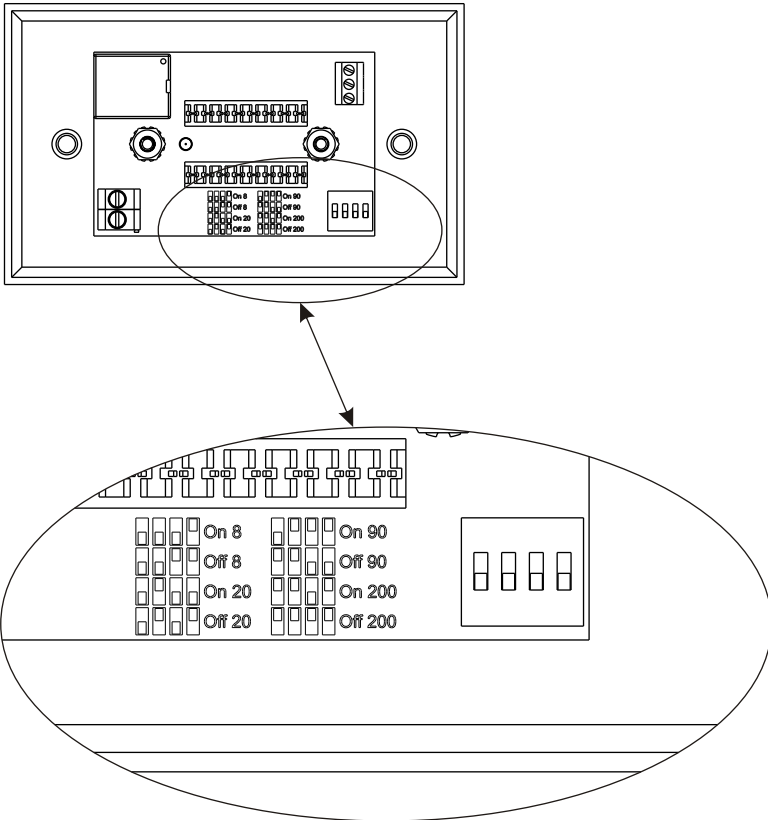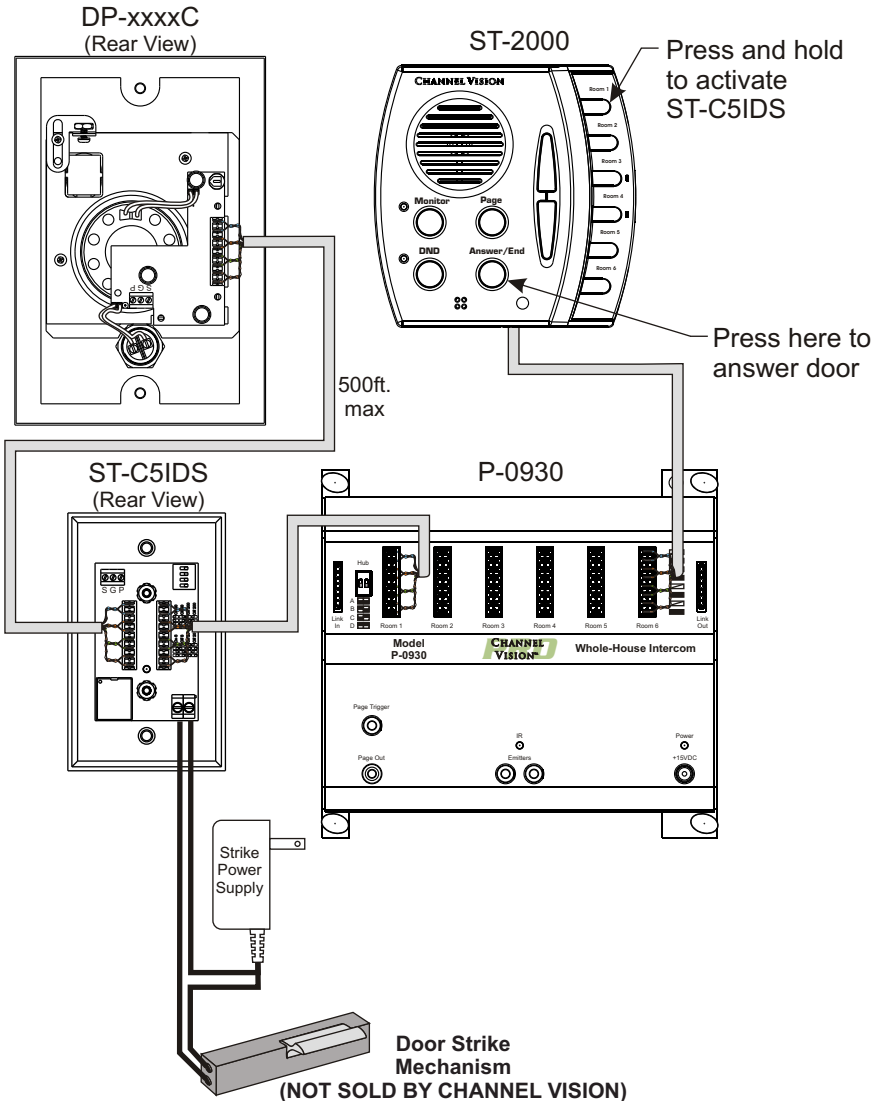

Match the dip switches on the right to the desired setting as shown in the programming chart on the left.
There are four possible strike durations:
8 seconds
20 seconds
90 seconds
200 seconds

Wiring Configuration (Option A)

The ST-C5IDS can be connected to the CAT5 Intercom System in two different ways. The diagram below shows the most typical configuration in which the ST-C5IDS is installed in-line between the Intercom Hub (P-0930) and the door station (DP-xxxxC). When the button is pressed on the DP-xxxxC the ST-2000 Intercom Stations will generate a door chime. Pressing Answer/End will open communication with the DP-xxxxC. To activate the ST-C5IDS, press and hold the direct call button that corresponds to the DP-xxxxC. (Please note that the ST-C5IDS is also compatible with the IU-xxxxC which is not shown in the this manual.)

DP-xxxxC
(Rear View)

ST-2000

Press and hold
to activate
ST-C5IDS

CHANNEL VISION

Monitor   Page

DND   Answer/End

Press here to
answer door

500ft.
max

ST-C5IDS
(Rear View)

P-0930

Model
P-0930   CHANNEL VISION   Whole-House Intercom

Strike
Power
Supply

**Door Strike
Mechanism
(NOT SOLD BY CHANNEL VISION)**

Wiring Configuration (Option B)

The diagram below shows another valid wiring configuration in which CAT5 wire runs directly to the door station (DP-xxxxC) from the Intercom Hub (P-0930). A separate 3-conductor wire is then used to connect the ST-C5IDS to the DP-xxxxC using the screw terminals for Signal, Ground, and Power. When the button is pressed on the DP-xxxxC the ST-2000 Intercom Stations will generate a door chime. Pressing Answer/End will open communication with the DP-xxxxC. To activate the ST-C5IDS, press and hold the direct call button that corresponds to the DP-xxxxC.
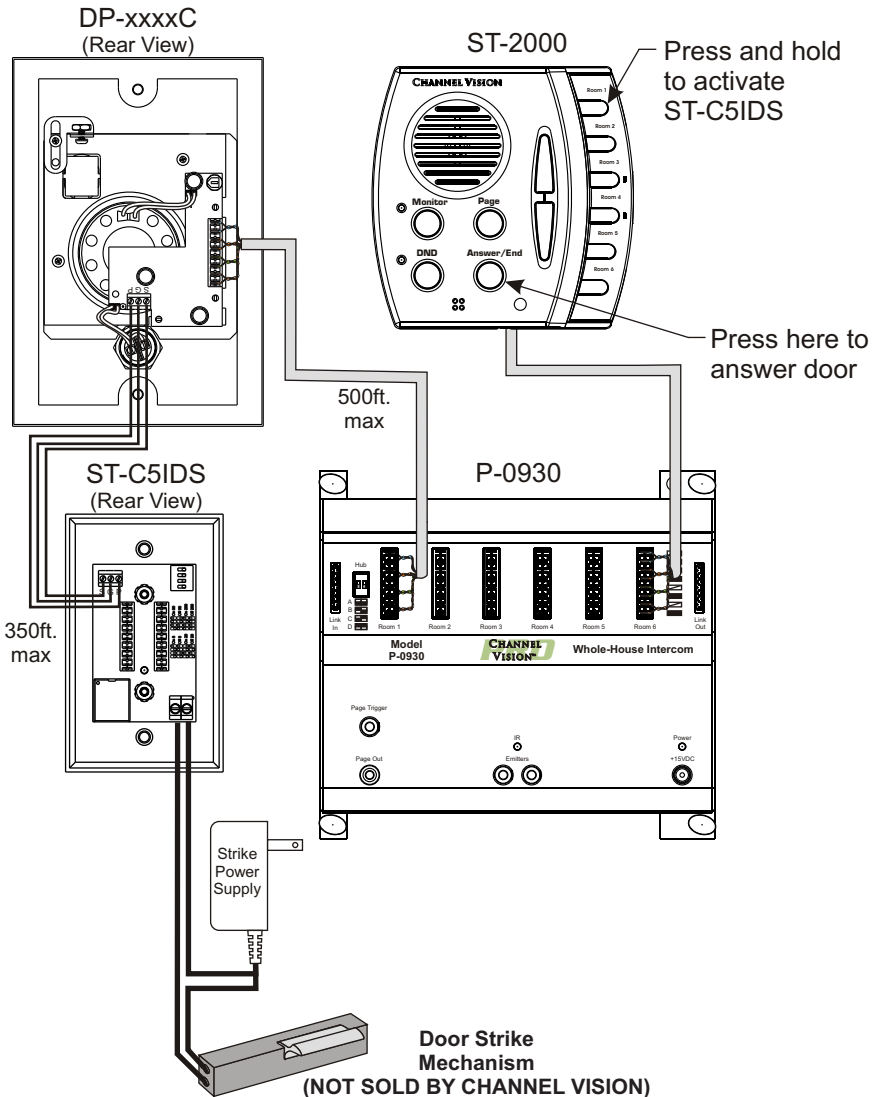
Troubleshooting

1. **The electronic door strike or gate opener, closes when it's supposed to be open and opens when it is supposed to be closed.**
   If the operation of the system is the opposite of what is needed, then you may have selected a Normally Closed (N.C) relay setting when you should have selected a Normally Open (N.O.) relay setting. Review the "Setting the Dip Switches" section of this manual for more details.

2. **The gate opener only operates for a short period of time (the gate only opens half way and then begins to close).**
   Some gate openers require the activation contact to be closed for the entire time it takes the gate to open. If the strike duration setting is too short the gate may not open completely. Using the dip switches, select a longer time period for the relay to operate. Review the "Setting the Dip Switches" section of this manual for more details.

3. **The electronic door strike or gate opener does not respond to commands to open.**
   A) Check the LED on the back side of the ST-C5IDS to make sure that it is receiving a signal from the intercom system. If the LED does not light, double check the wiring between the ST-C5IDS and the intercom system.
   B) If the LED on the back side of the ST-C5IDS is lighting up, but door strike or gate opener is not responding try bypassing the ST-C5IDS module. To do this, remove the wires from the relay contacts and try touching them together momentarily. If this triggers the opener system to operate there may be a problem with the ST-C5IDS. Please contact Channel Vision Tech support for assistance. If the opener system does not operate when the ST-C5IDS is bypassed, please contact the manufacturer of the door strike or gate opener for assistance.

Specifications: (typical @25º C)

Operating Voltage :   12VDC

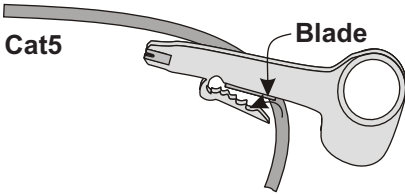**Max Current Through Relay:** 10 Amps

Cable requirements: CAT5 or 3-conductor 18-24AWG

Specifications subject to change without notice.

Stripping and Connecting CAT5 Wire

CAT5 cable should be stripped with a proper stripping tool, such as Channel Vision's J-110 tool.
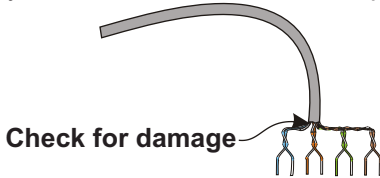
**1.** Place the CAT5 between the blade and the first notch of the J-110 tool.

Cat5

Blade

2. Rotate the tool only once around the CAT5. Multiple turns will cause you to cut into the inner wires.

**Rotate
1 turn only**
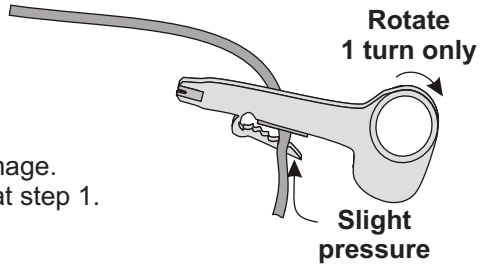
3. Inspect the inner wires for damage.
If any wires are cut start over at step 1.

**Slight
pressure**

Check for damage

4. Use any standard 110 punch-down tool to properly seat all wires.
Note: Do NOT use a screwdriver or any other tool that is not specifically designed for terminating UTP cable. Using improper tools will damage the connector!
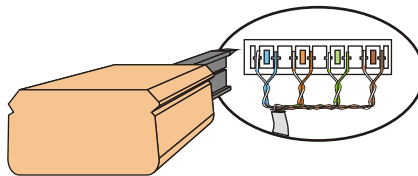
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Mail in service can be obtained during the warranty period by calling (800) 840-0288 toll free. A Return Authorization number must be obtained in advance and can be marked on the outside of the shipping carton.

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