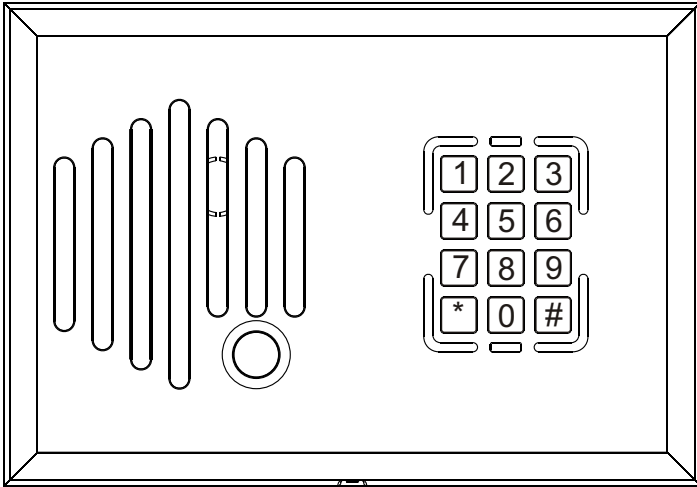


INSTRUCTIONS



DS3-XXXX

DS3-XXXXC

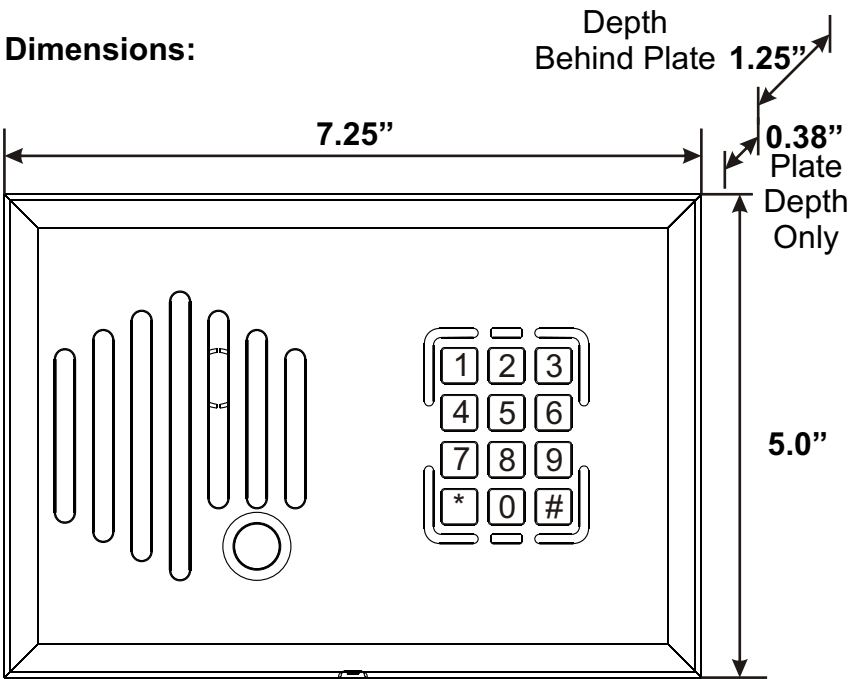
DS3-XXXXP

Telephone Entry Door Intercom

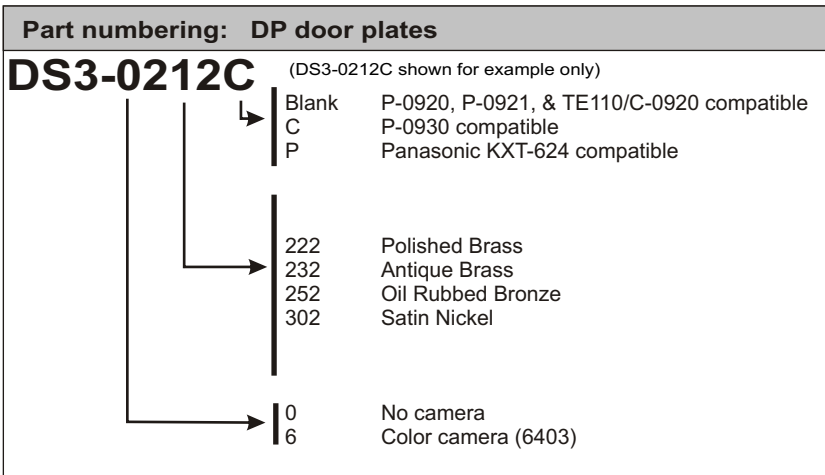
Channel Vision's DS3-Series door stations can interface with a variety of telephone entry control products to provide communication with the front door. They are available in a variety of configurations including options for a hidden camera and compatibility with Panasonic's popular KSU phone systems. These door stations also feature an integrated access control keypad which can be used to open an entrance gate or an electric door lock. The DS3-Series door stations install in a standard 3-gang junction box, making it a simple and affordable addition to any home.

Features:

- Rust-proof faceplate
- Discrete speaker and microphone
- Hidden camera option available
- Fits a 3-gang box
- Available in many different finishes



Understanding the model number:



Understanding the compatibility options

There are three different types of systems that DS3 door stations can be used with. The compatibility for these different types of systems is indicated by the suffix of the model number which follows the 4-digit numerical code.

If there is not a letter suffix on the model number, such as DS3-0212, that door station is compatible with Channel Vision's telephone entry products including models P-0920, P-0921, C-0920, and TE110.

If the suffix is the letter "C", such as DS3-0212C, then the door plate is compatible with Channel Vision's Whole-House CAT5 Intercom Hub, model P-0930.

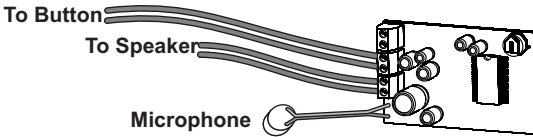
If the suffix is the letter "P", such as DS3-0212P, then the door plate is compatible with Panasonic KXT-624 and older KSU's. This station is not compatible with digital systems such as the KX-TDA50, KX-TDA100, KXT-824, or KXT-848.

Please double check to be sure that you have purchased the correct model number for your application.

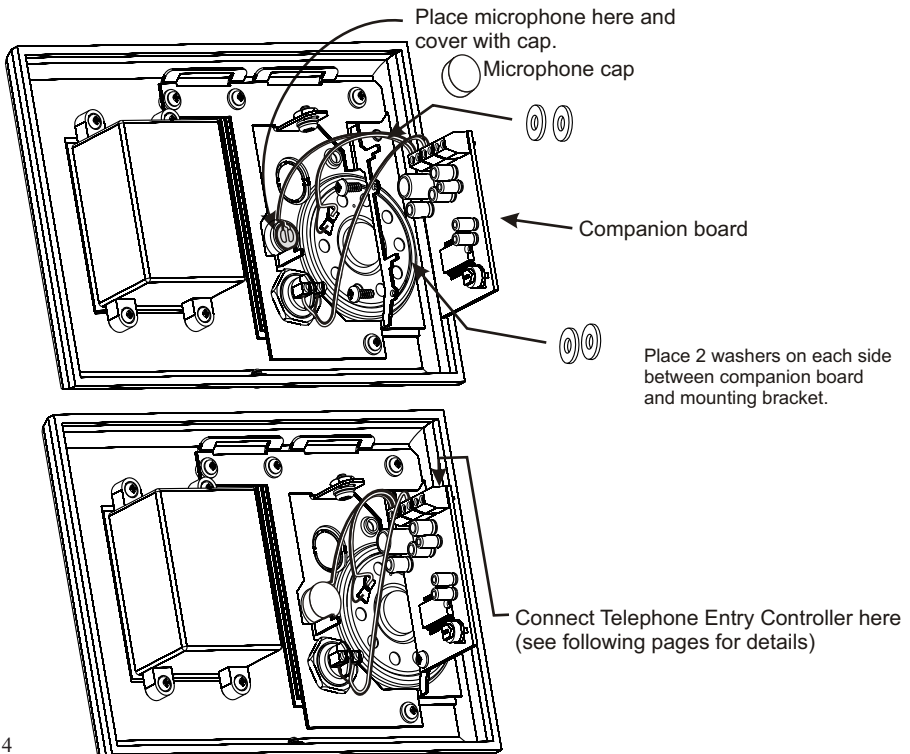
Attaching the Companion Board

This door intercom product consists of two sub assemblies which must be attached to each other before the final assembly can be installed. In this guide the electronic sub assembly will be referred to as the "Companion Board" and the mechanical assembly will be referred to as the "Door Plate." Review the following diagrams and assemble as shown.

Companion Board Connection Details



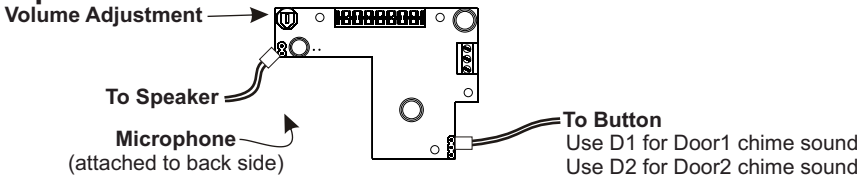
Remove the plastic cap that covers the microphone compartment on the door plate. Place the microphone in the compartment and replace the plastic cap over the microphone. Note that the plastic cap will form a friction fit over the top of the microphone wires holding them snug against the outer compartment wall until they exit at the base as shown. Remove the mounting screws which are already attached to the bracket and use them to attach the companion board. The companion board should mount on the front side of the bracket so that the screws pass through the companion board before threading into the bracket.



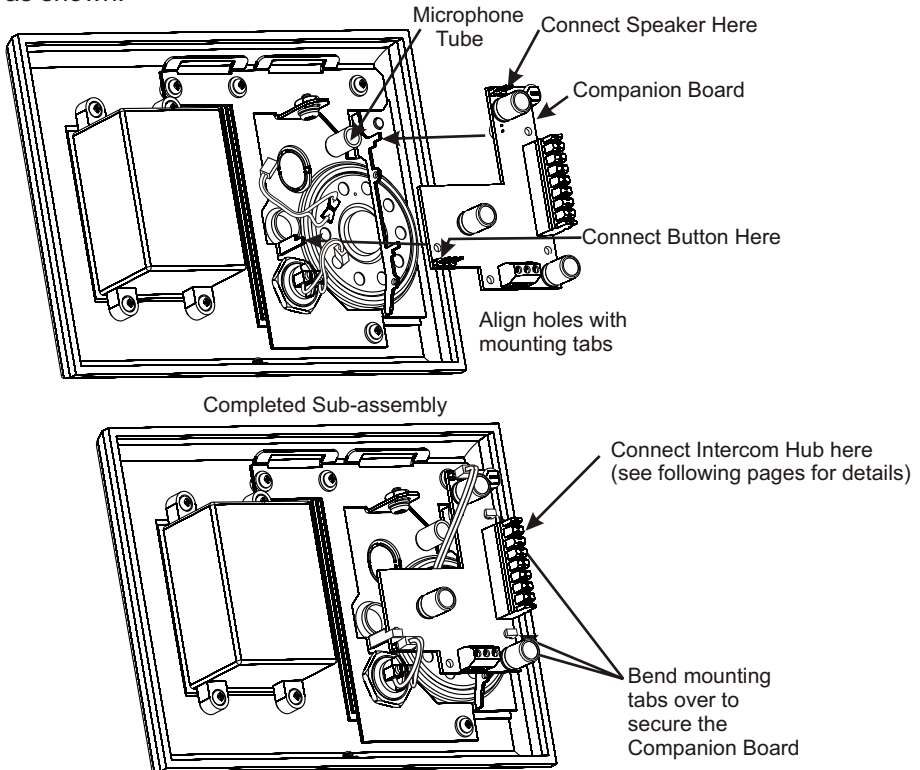
Attaching the Companion Board (DS3-XXXXC)

This door intercom product consists of two sub assemblies which must be attached to each other before the final assembly can be installed. In this guide the electronic sub assembly will be referred to as the "Companion Board" and the mechanical assembly will be referred to as the "Door Plate." Review the following diagrams and assemble as shown.

Companion Board Connection Details



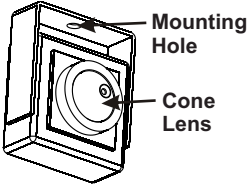
Position the companion board onto the three mounting tabs as shown below. The microphone attached to the back side of the companion board should line up with the microphone tube on the bracket. Bend the mounting tabs to secure the companion board. Connect the speaker and button wires by sliding the small connector over the exposed pins on the companion board as shown.



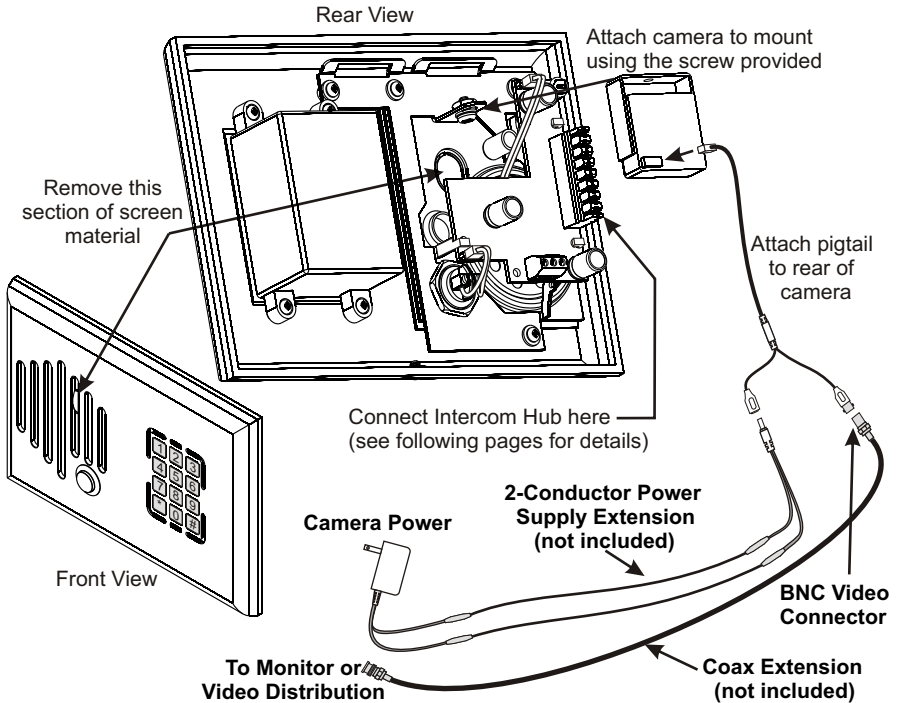
Attaching & Installing the Camera

The DS3-6xxx, DS3-6xxxC, & DS3-6xxxP come with a mini color camera that can be attached to the integrated mount that allows the camera to see through the opening in the plate. The illustrations bellow show how to mount the camera.

Mini Camera



Break away the section of perforated metal screen that covers the camera opening by pushing a screwdriver through the slot on the front of the door plate. Press near the top or bottom of the section and the tabs that hold it in place will break free. Attach the camera to the mount so that the cone of the camera points through the opening. Adjust the camera to the desired position and secure it in place by tightening the screw on the mount.



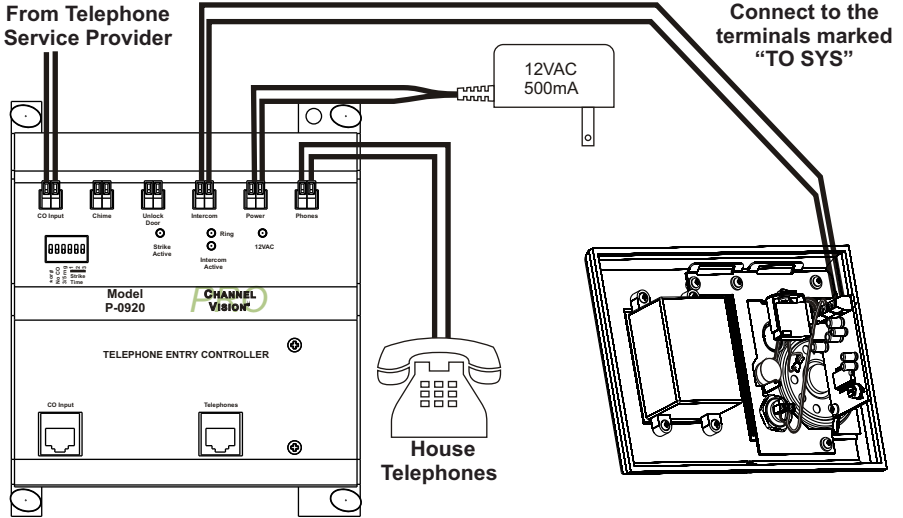
Installation:

If necessary, attach the camera's video output to a coax extension that is long enough to reach your monitor or video distribution equipment.

If necessary, cut the connector off of the end of the power supply and splice in an extension using crimp-on connectors.

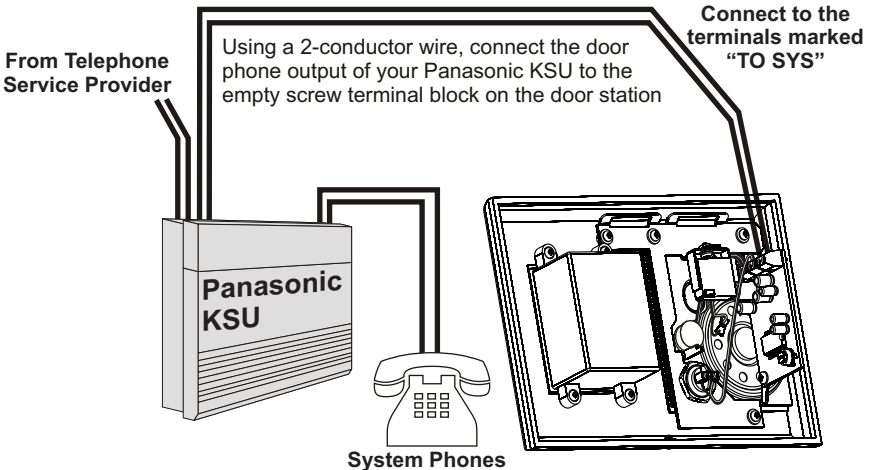
Channel Vision Compatible (DS3-xxxx)

The DS3-0xxx and DS3-6xxx both interface with the Channel Vision's telephone entry controllers: TE110, C-0920, P-0920 and P-0921 to provide audio and video communication with the front door. Using a 2-conductor wire, connect the Telephone Entry Controller to the empty screw terminal block on the door station (see diagram).



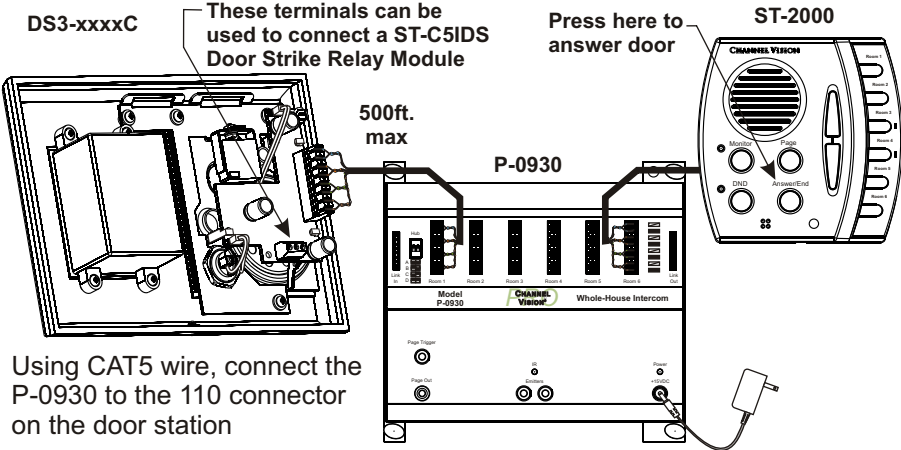
Panasonic Compatible (DS3-xxxxP)

Channel Vision's Panasonic models are a compatible replacement for the Panasonic KXT30865. They are an attractive alternative to the standard plastic door station sold by Panasonic. This product interfaces with Panasonic's KSU phone systems to provide communication with the front door.

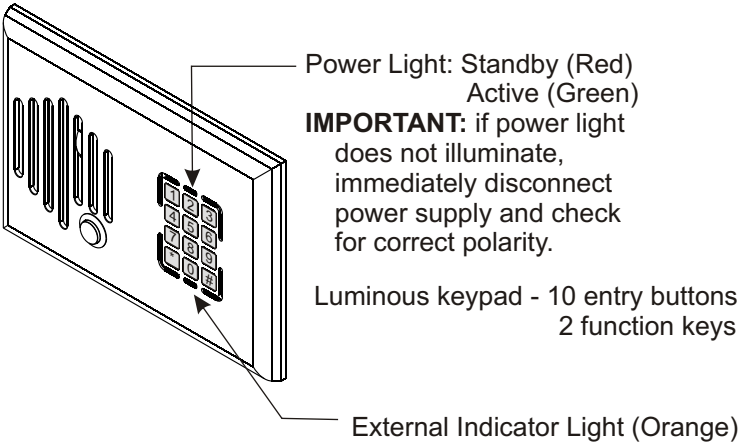


Channel Vision CAT5 Intercom Compatible (DS3-xxxxC)

The diagram below shows how to connect the DS3-xxxxC to Channel Vision's CAT5 Whole-House Intercom system. When the button is pressed on the DS-xxxxC the ST-2000 Intercom Stations will generate a door chime. Pressing Answer/End will open communication with the DS3-xxxxC. Model DS3-6xxxC includes a color camera and DS3-0xxxC includes no camera.



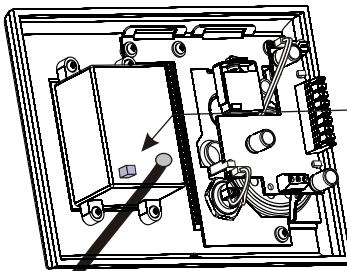
Using the Access Keypad



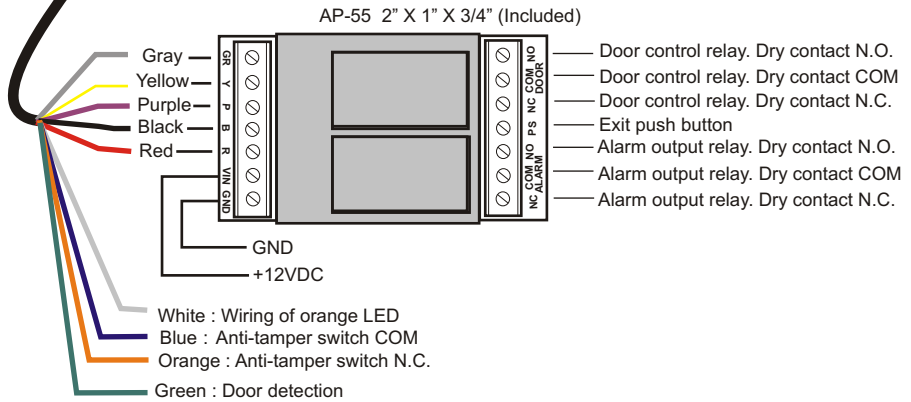
Features

- Stores up to 8 different door opening passwords
- Anti-tamper design and alarm will activate if unit is moved
- Door opening setting adjustments 01-99 seconds
- Power supply : DC 12V. 80 mA (standby), 110mA (active)

Keypad connections



Tamper spring installs on the switch before mounting. Make sure the tamper spring touches the inner surface of the case.



Programming the Keypad

System password (default is **4567**) is required to enter system setting modes. The reader will send a beep sound to indicate entering system setting modes. If there isn't any action within 20 seconds, the system will escape from the setting mode. When programming, the “#” key is used as the Confirmation or “Enter” key. In most cases “*” is used to clear an entry or exit

Set (or change) the 8 user passwords

Press: * # [system password] #

System Reaction: One beep

Press: 3 Then enter 1-8 (example: “1” for the first password, “2” for the second, “3” for the third, etc.)

Press: [enter the 4-digit password]

System Reaction: One beep (Password changed successfully)

Optional: [enter 1-8 to set another password] [enter 4-digit password]

Press: * (to exit process)

System Reaction: One beep (Process completed)

Set Door Strike Time Duration

Press: * # [system password] #

System Reaction: One beep

Press: 4 [enter the 2-digit time duration in seconds (01-99)]

System Reaction: One beep (Time duration set successfully)

Press: * (to exit process)

System Reaction: One beep (strike duration has been set)

Setting Activation Mode

NOTE : Set the activation mode **before** attempting to use the user passwords.

To set activation mode:

Press: * # [system password] #

System Reaction: One beep

Press: 5, 1

System Reaction: One beep (activation mode has been set)

Opening the Door Lock with a User Password

Press: [user password]

System Reaction: One beep, power light turns green and door is unlocked

Opening the Door Lock with a System Password

Press: * # [system password] # 0 0

System Reaction: One beep, power light turns green and door is unlocked

Change Anti-Tamper Switch Setting: 0=ON 1=OFF

Press: * # [system password] #

System Reaction: One beep

Press: 7 [enter the desired anti-tamper mode, 0=On, 1=Off]

System Reaction: One beep (Anti-Tamper mode has been set)

Press: *

System Reaction: One beep (process exited)

Change Reader Alarm Setting: 0=ON 1=OFF

Press: * # [system password] #

System Reaction: One beep

Press: 0 3

System Reaction: One beep

Press: [re-enter the desired alarm setting 0=On, 1=Off]

System Reaction: One beep (Alarm mode has been set)

Changing the System Password

Press: * # [system password] #

System Reaction: One beep

Press: 8 [enter new 4-digit system password] #

System Reaction: One beep

Press: [re-enter new 4-digit system password for confirmation]

Note: If confirmation password didn't match, you'll hear repeated beeps, and the system will exit the process. If no beeps are heard, then continue.

Press: #

System Reaction: Two Beeps (the new system password has been saved)

Deletion of all User Passwords

Press: * # [system password] #

System Reaction: One beep

Press: 9 3

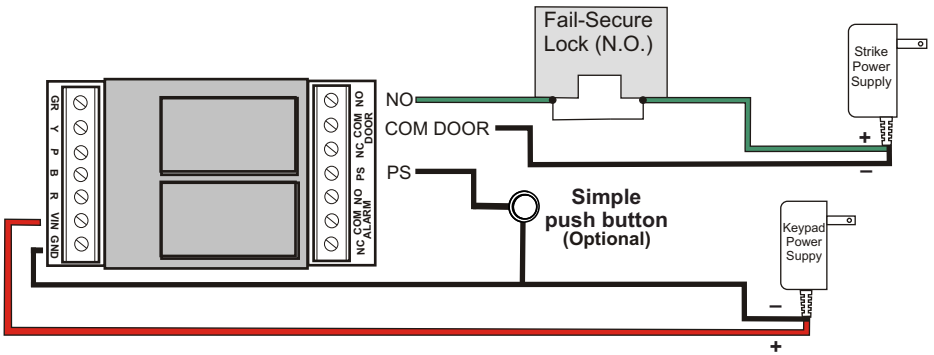
System Reaction: One beep (all eight user passwords have been deleted)

Controlling Electric Locks

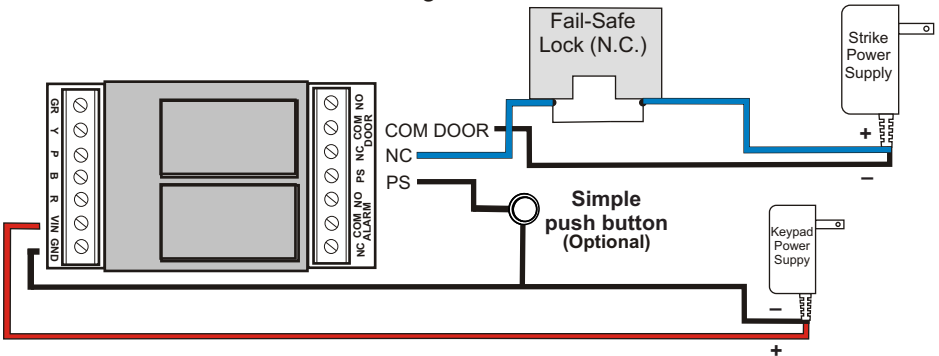
The DS-Keypad contains both Normally Open and Normally Closed relay contacts allowing it be used for either “fail-safe” or “fail-secure” lock mechanisms. Fail-secure locks remain locked when the power is off and unlock when power is applied to the mechanism. Of course, it is still possible to manually open the lock from the inside of the building. Most electric locks are fail-secure. Fail-safe locks require constant power to remain locked. They are unlocked in the absence of power.

Note: the simple push button shown below is optional and can be omitted.

Fail-Secure: Use this diagram for any lock that requires a Normally Open control contact.



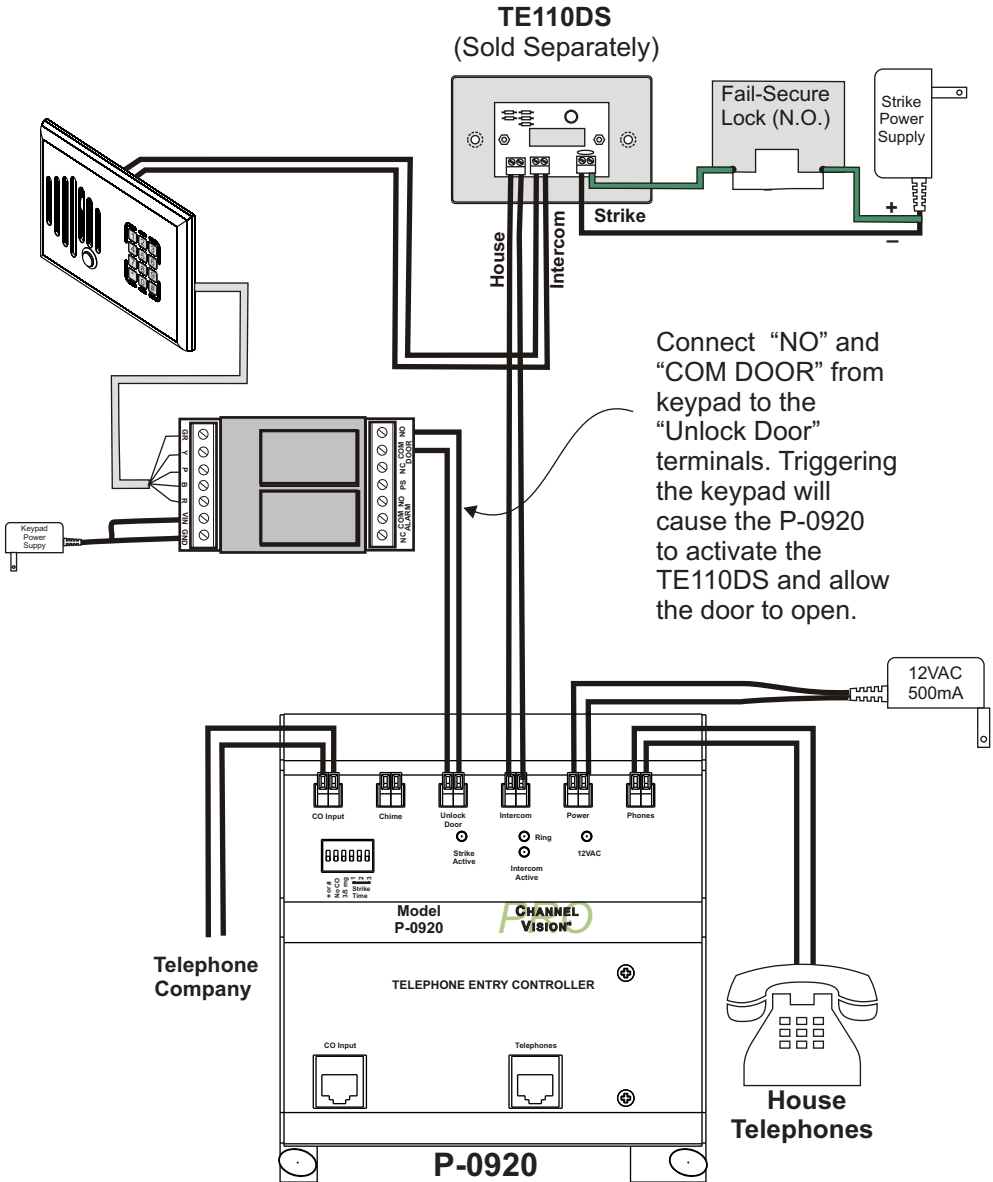
Fail-Safe: Use this diagram for any lock that requires a Normally Closed control contact, such as electromagnetic locks.



Integrating the TE110DS

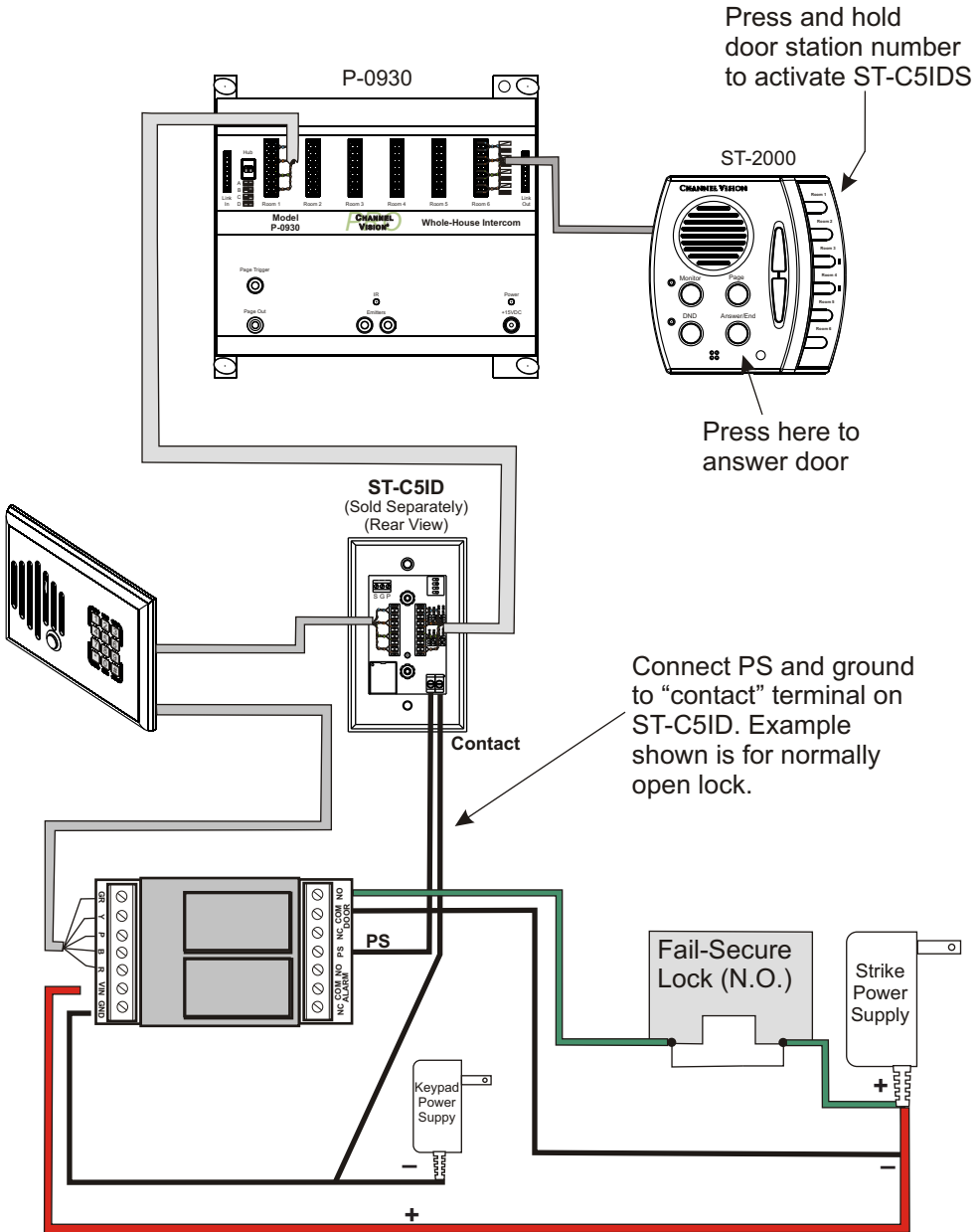
For systems using P-0920 or P-0921

Example shown is a P-0920 and normally open lock type.



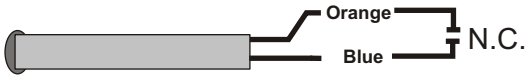
Integrating the ST-C5IDS

For systems using the P-0930



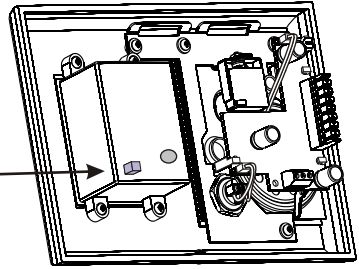
Optional Keypad Functionalities

Anti-tamper switch:

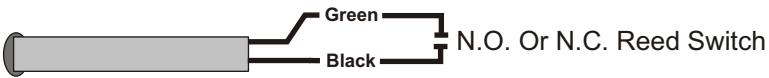


Contact between orange and blue is normally closed. Close when tamper switch pressed (installed) and opens when switch is released.

Tamper switch - If using the tamper switch feature, this must remain pressed when the keypad is installed. Use included tamper spring make sure it contacts back of case.

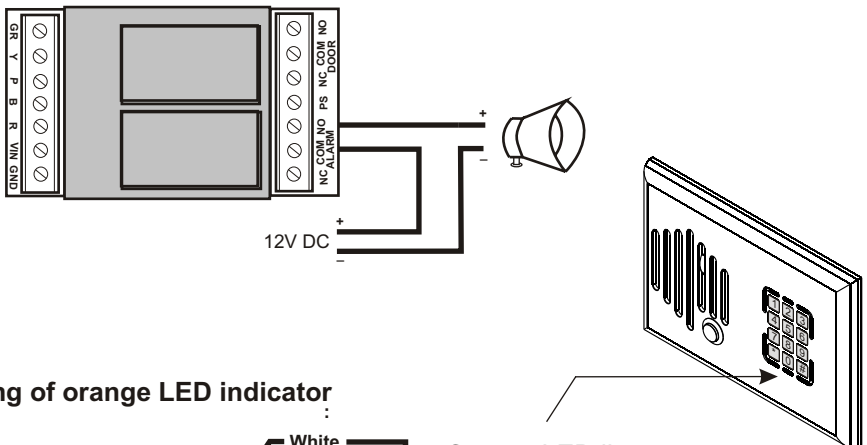


Door detection wiring:



Alarm relay is activated upon Green - Black (ground) contact.

Example alarm wiring with normally open circuit:



Wiring of orange LED indicator :



Precautions

1. To avoid damages to the keypad, verify voltage levels and the polarity of the current before connecting power to the keypad or to other devices.
2. To eliminate electrical interferences, avoid sharing the electric current of locks with that of the DS keypad.
3. Use proper insulation techniques on twisted wires to avoid shorts to the external relay circuitry of the keypad.
4. Always disconnect power from the unit before making any wiring terminations of the keypad or the intercom system.

Troubleshooting

1. Symptom: Unable to enter into various functions of setting mode when system password is entered.
Solution: First press * to terminate any system setting process, and then enter correct system password format: *#XXXX# ("XXXX" represents the system password)
2. Symptom: Relay/door-lock does not activate after a user password is entered.
Solution: The activation mode may need to be set. Refer to pages 9 and 10 for information on setting the activation mode.
3. Symptom: Anti-tamper output is continuously in an "on" state.
Solution: Reset the anti-tamper output by entering in a user password or by entering in system setting mode. Check if the anti-tamper switch to be pressed during installation.
4. Symptom: The TE-110DS does not activate. (Telephone entry)
Solution A: Make sure you are pressing the correct key sequence. If speaking to the door station, press #7 (or *7) to activate. If not speaking to the door station, press ## 7 (or ** *7) to activate.
Solution B: Measure the voltage labeled "INTERCOM". When the system is idle, there should be 1 VDC on the terminals. When speaking to the door station, there should be 6 VDC on the terminals. When the TE-110DS is activated, there should be 10 VDC on the terminals.
5. Symptom: The TE-110DS relay is activated twice from one password keypad entry.
Solution : Lower the keypad door strike time duration to 1 second.

CHANNEL VISION™

1 Year Limited Warranty

Channel Vision Technology will repair or replace any defect in material or workmanship which occurs during normal use of this product with new or rebuilt parts, free of charge in the USA, for one year from the date of original purchase. This is a no hassle warranty with no mail in warranty card needed. This warranty does not cover damages in shipment, failures caused by other products not supplied by Channel Vision Technology, or failures due to accident, misuse, abuse, or alteration of the equipment. This warranty is extended only to the original purchaser, and a purchase receipt, invoice, or other proof of original purchase date will be required before warranty repairs are provided.

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.

This warranty gives you specific legal rights and you may have other rights (which vary from state to state). If a problem with this product develops during or after the warranty period, please contact Channel Vision Technology, your dealer or any factory-authorized service center.

Channel Vision products are not intended for use in medical, lifesaving, life sustaining or critical environment applications. Channel Vision customers using or selling Channel Vision products for use in such applications do so at their own risk and agree to fully indemnify Channel Vision for any damages resulting from such improper use or sale.

Specifications:

Speaker Size (mm):	50
Speaker Impedance:	8 Ohms
Speaker Power Peak (W):	0.2
Speaker Frequency Range:	500 Hz - 3.5 kHz
Power Supply:	12VDC, 500mA
Power Consumption:	80mA (idle), 110mA (active)
Cable Requirements:	8-conductor wire, 24AWG or larger Note: wire carrying current to electric locks will need to be much thicker. Consult the electric lock documentation for its specific wiring requirements.

External Relay Type: Normally Open or Normally Closed

Relay Specifications: 1Amp@30VDC or 3Amp@24VDC

Color Camera: (DS3-6xxx, DS3-6xxxC, & DS3-6xxxP only)

Camera Lens: 5.5mm

Resolution: 550 lines

S/N Ratio: More than 48 dB

Min Illumination: 0.2 LUX @ F2.0

Power Consumption: 12VDC, 65mA

Electronic Shutter: 1/60s - 1/100,000s

Iris Control: Automatic

White Balance: Automatic

Video Output: 1 Vp-p @ 75 ohms

Operating Temp: -10°C to 50°C (14°F to 122°F)

Specifications subject to change without notice.

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