INTRODUCTION

TOUCH SCREEN TECHNOLOGY

A touch screen is a polyester plastic film suspended over a glass panel, which is then adhered to the front of a color LCD (liquid crystal display) screen. Depressing the polyester film with a finger allows the film to touch the glass panel underneath, generating a location signal that is read by the electronics. The color LCD display is an active matrix TFT Liquid Crystal NTSC Display. This provides greater image contrast, viewing angle, and color quality. It has a 6.4" diagonal display area.

INSTALLATION & USAGE TIPS

- When properly installed, nothing should be applying contact pressure to the touch panel except for the operator's finger. If something is touching the touch screen window a false signal can be generated, causing the touch panel not to respond a finger press (ELAN does not recommend wrapping the removable frame with wallpaper as this can cause the aforementioned symptom). Too much force on the front of the touch panel, or concentrated pressure, can damage the polyester film or even break the underlying glass plate.

- Avoid installation in direct sunlight or strong ultraviolet light (such as grow lamps for plants). This can degrade and discolor the polyester film.

- Avoid installation over heat generating devices and/or in moist areas where condensate can form on the polyester film. Both heat and condensed moisture can affect touch screen performance.

- Avoid installation next to thermostats. The touch screen generates heat that can effect thermostat control and readings.

- Avoid applying any foreign objects, such as adhesive labels, on the touch screens polyester film. This can release chemicals that can discolor the clear film.

- The touch panel/LCD assembly should not be mounted near electronics that emit radio frequencies or electromagnetic interference (such as the deflection circuits of CRT monitors, light dimmers, and some power supplies).

INSTALLATION & USAGE TIPS (continued)

- The operating and storage temperature range is: -10°F to +115°F. As the operating temperature decreases, the LCD display images may degrade. This is due to the liquid crystal polymer becoming sluggish at reduced temperature. Once restored to room temperature, the display performance will recover. If the LCD display is over-heated or its temperature reduced below its recommended minimum, the liquid crystal polymer can be damaged and the display image may not recover.

- The edge of the touch panel has exposed sharp glass. Be careful when handling the assembly not to get cut.

- Be sure to read the two end-user documents ("Care & Feeding of Your VIA!" and the "VIA! Quick Reference Guide") enclosed with each VIA! Touch Panel. They contain important information that you should be aware of.

CLEANING MODE

Cleaning Mode is simply a button you create on the VIA! panel with a thirty second (or more) delay programmed under it. This allows the homeowner to clean the screen as described below without initiating any commands to the system. The CLEAN button should be placed in a user-friendly location (a place the homeowner or housekeeper can easily remember). The "OFF" page or a "SYSTEM" page might be good locations *(see Creating a CLEAN Button in the VIATOOLS Programming Manual)*.

CLEANING THE TOUCH SCREEN

A user's guide for cleaning the touch screen (called "Care & Feeding of Your VIA!) is enclosed with every VIA!. Please be sure to forward it to the homeowner. The following information regarding cleaning procedures and the effect of certain substances on the touch screen is a little bit more detailed than the information found in "Care & Feeding".

To clean the polyester film first use a soft dry cloth to remove contamination. If the dirt is still present, then use a damp cloth that has been squeezed of excess water to remove the dirt. If dirt is still present, then use a non-abrasive cleaner or detergent to clean the polyester film. Use of strong chemicals and/or some cleaning agents may discolor the polyester film. The following cleansers have been tested and approved for cleaning a VIA!64 Touch Panel: *Windexâ Glass Cleaner, Formula 409â Cleaner, Mr. Cleanâ.*

The following substances have also been tested and shown to have no adverse effects to the touch panel's polyester film:

Coffee	*Ammonia*	*Carb cleaner*	*Sodium hydroxide <10%*
Tea	*Clorox Bleach*	*10W40 motor oil*	*1.1.1 Trichlorethane Diethyl ether*
Ketchup	*Turpentine*	*Brake Fluid*	*Methyl ethyl ketone*
Mustard	*Lube grease*	*Copper based grease*	*Toluene*
Tomato Juice	*Diesel oil*	*Paraffin based grease*	*Cyclohexanone*
Lemon Juice	*Fuel*	*Nitric Acid <10%*	*Hydrochloric Acid <10%*
Hand Lotion	*Acetone*	*Hydro-seal*	*Ethyl acetate*
Wisk	*Ethanol*	*Xylene*	*Dimethyformamide*

IMPORTANT OPERATIONAL PROCEDURES

IR TUBE ENABLE/DISABLE FEATURE

The VIA! Touch Panel is one of the only (if not *the* only!) touch panel with optional built-in IR receiver capabilities. The frame of the VIA! panel has a place to mount an ELAN Z•035 IR Tube. When connected, the IR tube is automatically disabled when the screen is active (when the screen has not yet "timed out"). Conversely, the IR tube is automatically enabled the moment the screen does "time out". The IR tube Enable/Disable feature was designed to prevent detection of the reflected heat signature from the LCD back light which bounces off a person standing in front of it. Not that they'd want too, this means that a person standing in front of an active panel would not be able to use a handheld remote.

The end-user does, however, need to be made aware of another ramification of the IR Enable/Disable feature. When in Video or Camera mode the IR tube is also disabled. This means that if they place the touch panel in Video or Camera mode (which generally have considerably longer "time-outs"), and then go back to sit on their couch, they would not have remote IR control of the system until the panel "times out".

VIDEO/CAMERA MODE VIRTUAL BUTTONS

The VIA! Touch Panel comes with a second document that should be forwarded to the homeowner – the "VIA! QUICK REFERENCE GUIDE". Be sure to read it, as it has important information you should also be aware of. One of things it details are the five virtual or "hidden" buttons that are always present on the touch panel whenever it is in Video or Camera mode.

CAMERA SCAN MODE

If multiple CCTV cameras are connected to the system, Camera Scan mode (see the "VIA! QUICK REFERENCE GUIDE" , Virtual Buttons for how to utilize this feature) allows the homeowner to automatically scan each camera for a predetermined period of time. Other virtual buttons allow the homeowner to manually switch from one camera to the next. A very cool feature, but . . .

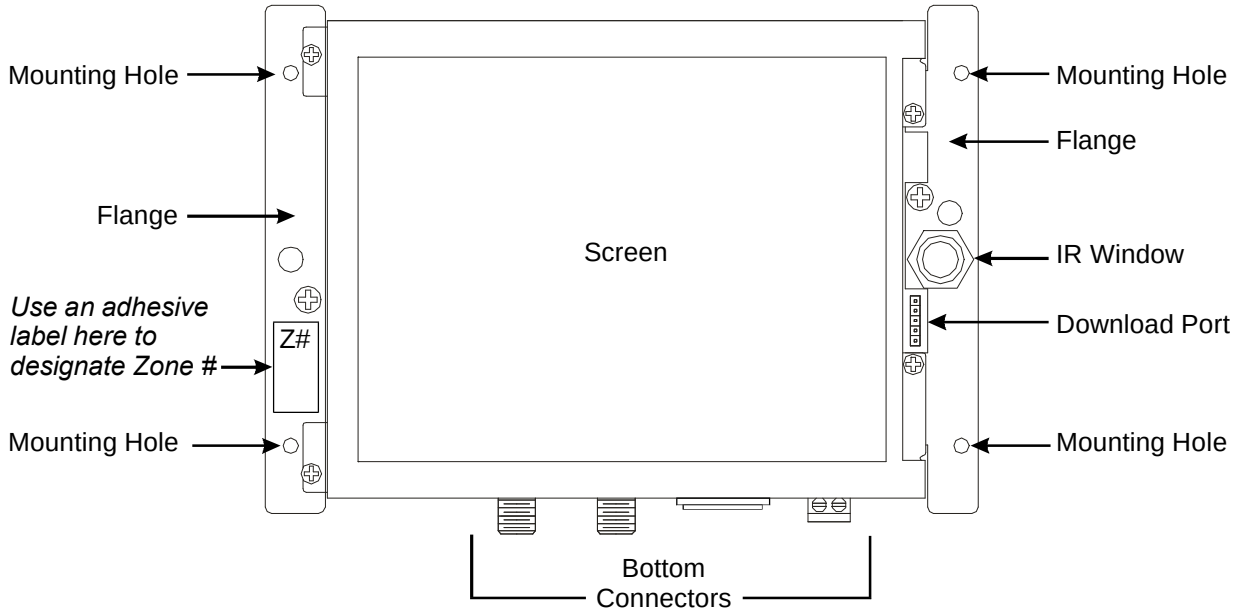
When in Scan mode, the touch panel is repeatedly sending IR commands to the Z•880 Video Controller, telling it to switch inputs until it "times out" so that each camera can be viewed. If multiple panels are placed in Scan Mode at the same time the Z•880, which is now receiving multiple commands from multiple VIA!s, may begin to operate erratically, selecting sources and zones out of sequence. The homeowner should be made aware of this current limitation and be told to simply take their panel out of Scan Mode should it occur. The homeowner can also 'single-step' through all of the cameras in the system by using the NEXT and PREVIOUS virtual buttons. Although temporarily erratic, no damage will occur to the Z•880. The solution to this limitation will be available upon release of the VIA! SC-4 System Controller, which will then control the Z•880 (among other things) using RS232 serial communications.

LABEL EACH PANEL

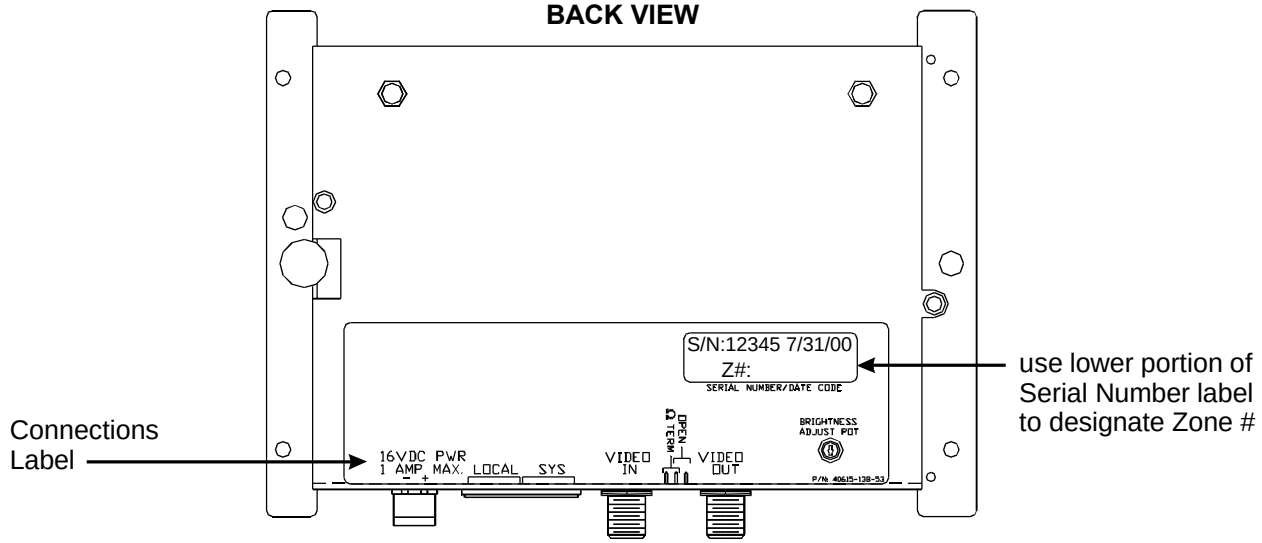
When programming VIA! panels with VIATOOLS setup software, each panel is programmed for a specific zone in the system. ELAN strongly recommends that each panel be labeled with the zone number it is to go in before or immediately after downloading your program to the panel. Two places to label the panel are recommended on page 4 in this manual.

VIA!64 COLOR LCD TOUCH PANEL

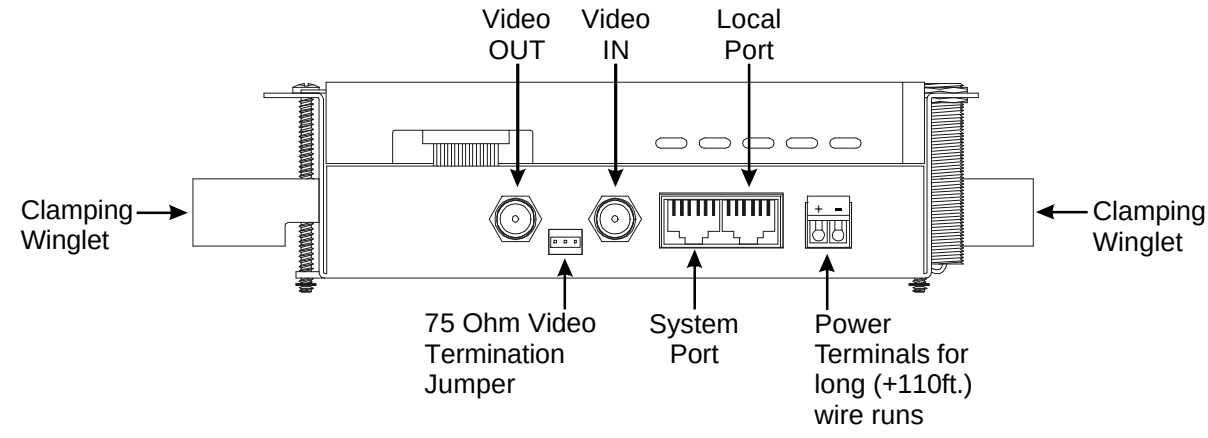
FRONT VIEW



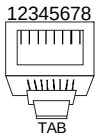
BACK VIEW



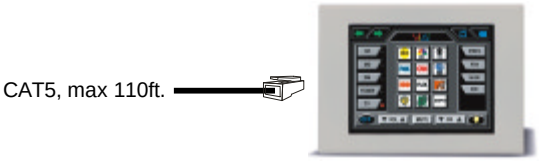
BOTTOM VIEW



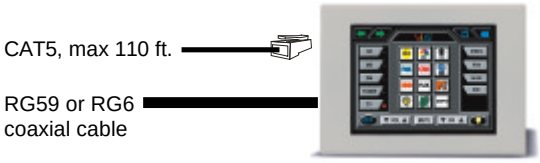
WIRE RUNS and +16VDC POWER CONNECTIONS



For wire runs less than 110 feet, standard 24AWG four twisted-pair CAT5 cable is all that is required to send both data and power to the touch panel. Four of the CAT5 conductors are used to transmit data. The remaining four conductors are used to send power to the touch panel.



Gives you full system control

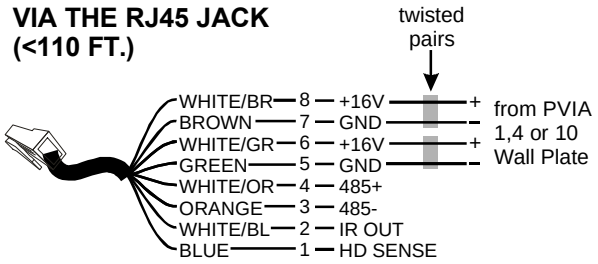


Gives you full system control
+ video viewing capabilities

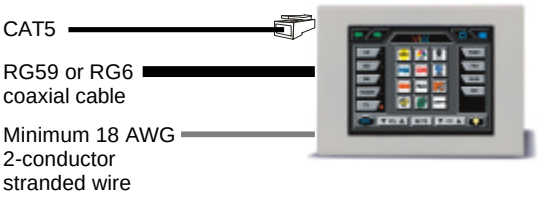
Gives you full system control, video viewing capabilities
+ TV loop-thru of the selected video source

Gives you full system control, video viewing capabilities,
TV loop-thru + the capability to view programs independently
on both monitors via dual runs of coaxial cable

CAT5 POWER CONNECTIONS VIA THE RJ45 JACK (<110 FT.)



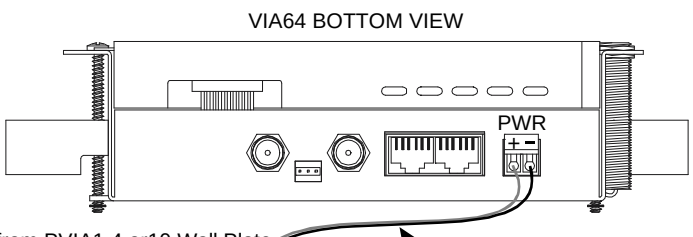
For wire runs greater then 110 feet, an additional run of two-conductor stranded speaker wire will need to be pulled to each touch panel location to supply the necessary DC power. See the table below for maximum wire run lengths.



Maximum wire run lengths when using the following cables to provide power to the VIA64 Touch Panel:

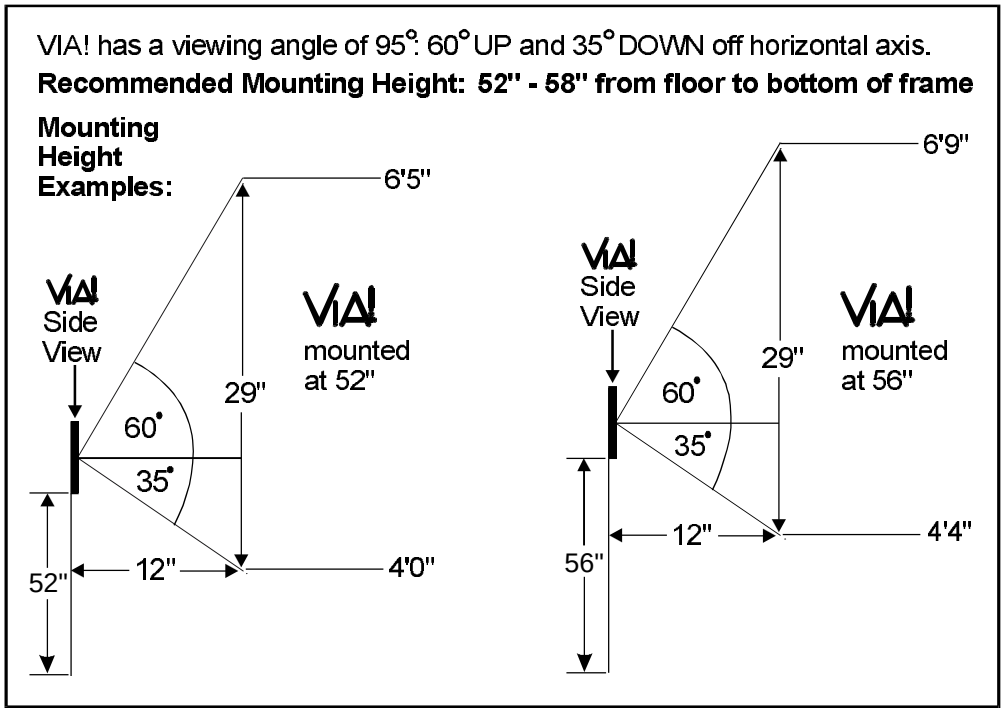
24AWG CAT5	18 AWG Stranded	16 AWG Stranded	14 AWG Stranded
110 ft.	**225 ft.**	**360 ft.**	**575 ft.**

POWER CONNECTIONS, >110 FT.

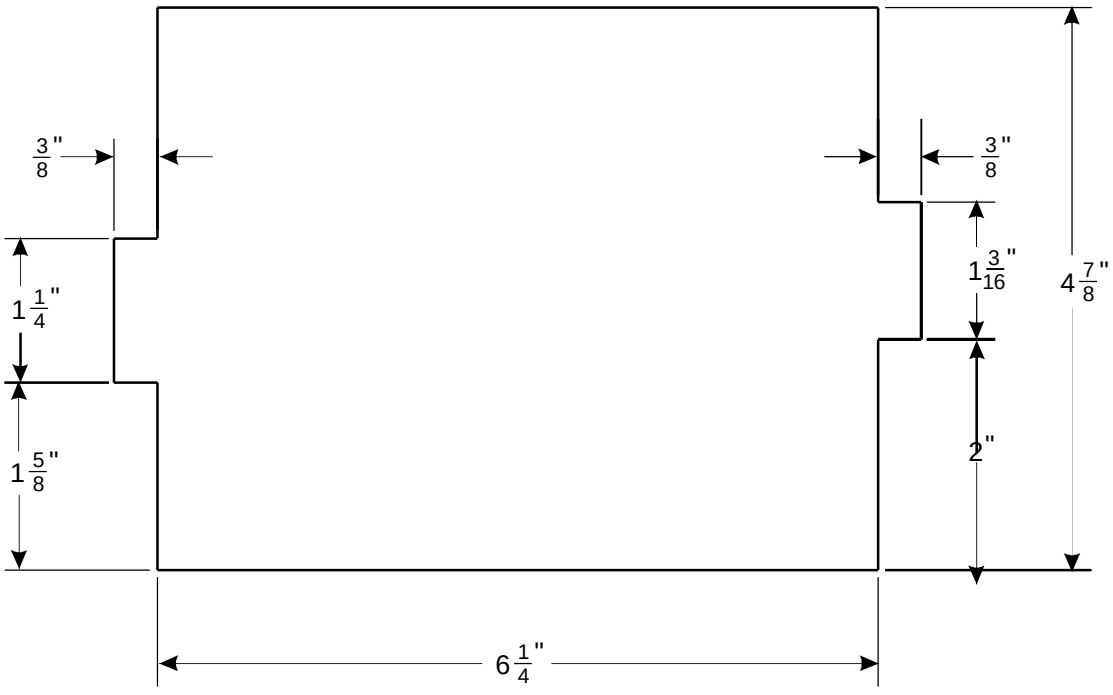


ROUGH-IN

MOUNTING HEIGHTS & VIEWING ANGLES



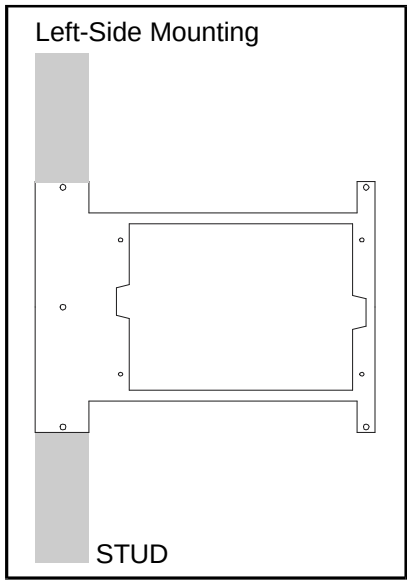
VIA! CUTOUT DIMENSIONS (NOT TO SCALE) A cut-out template is provided with each VIA64.

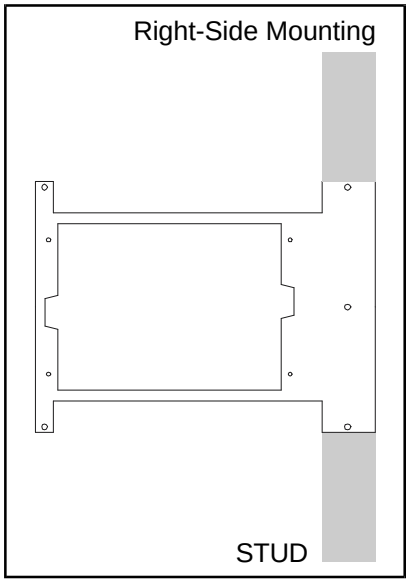


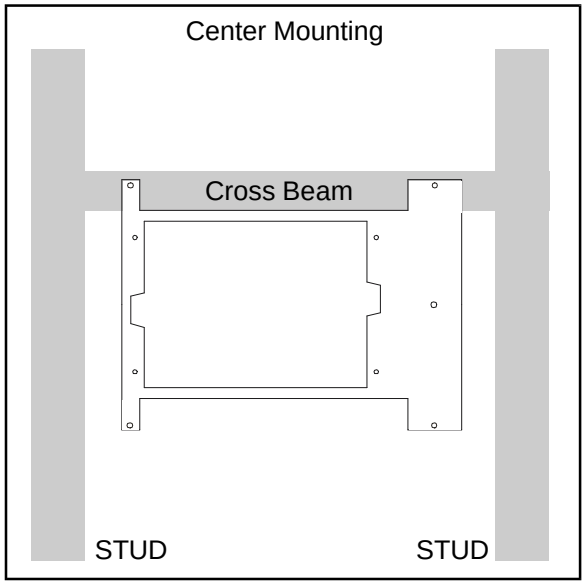
ROUGH-IN (Continued)

NEW CONSTRUCTION

The **VIA! BKT64** New Construction Rough-In Bracket provides you with a number of mounting options: Stud Bay Left, Stud Bay Right or Stud Bay Center.







RETROFIT

The VIA64 Touch Panel will easily retrofit into dry wall in one of two ways:

(Diagram 1 The VIA! back box is equipped with two clamping winglets that flush up against the drywall when tightened.

(Diagrams 2 & 3) Four predrilled mounting holes in the VIA! metal frame allow you to screw the panel directly through drywall into a stud (1.5" drywall screws are recommended).

When screwing one side of the VIA! panel into a stud the winglet on the opposite side should be deployed. The use of drywall anchors in leiu of stud-mounting is not recommended.

DIAGRAM 1

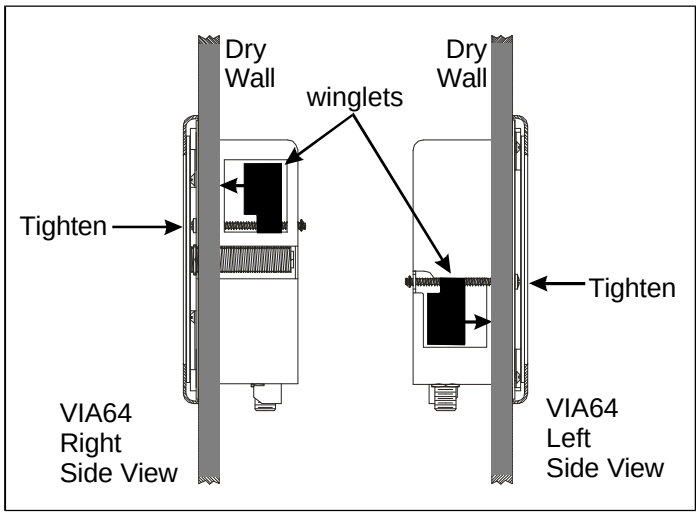


DIAGRAM 2

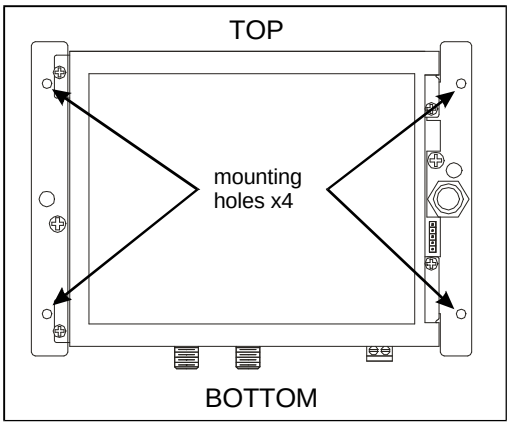
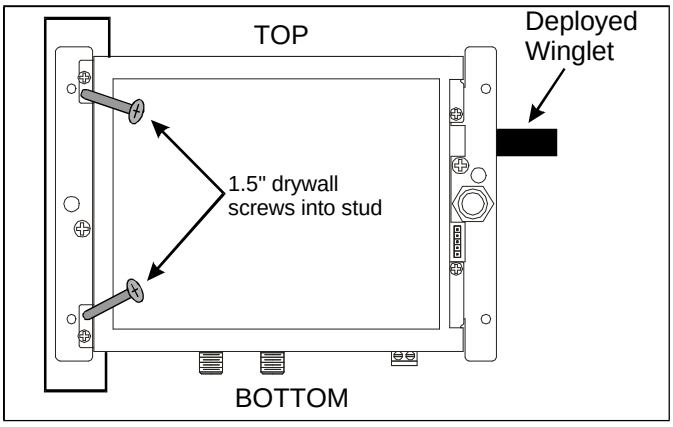
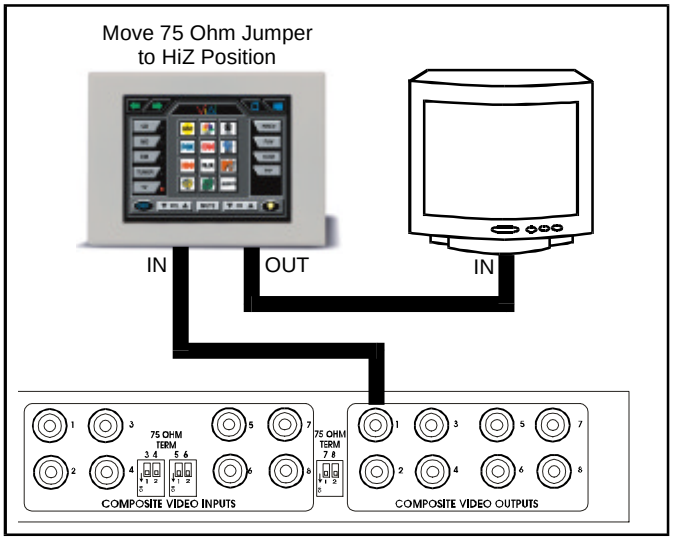


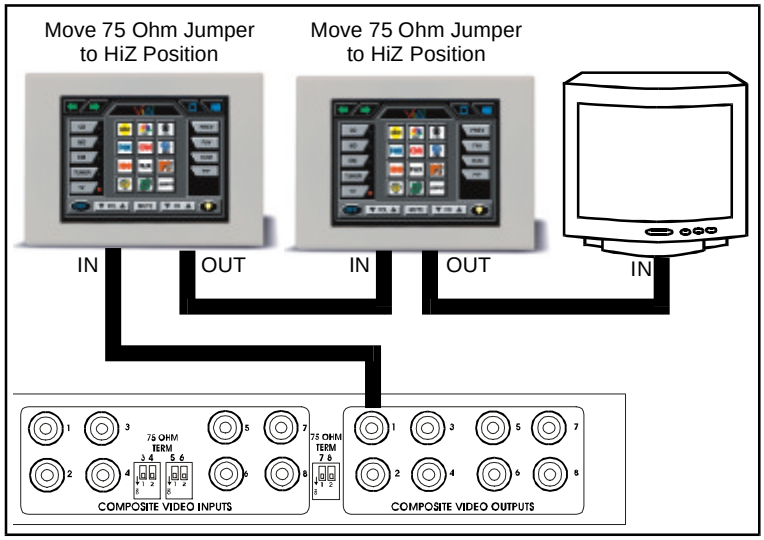
DIAGRAM 3



VIDEO FEED APPLICATIONS & VIDEO TERMINATION JUMPER

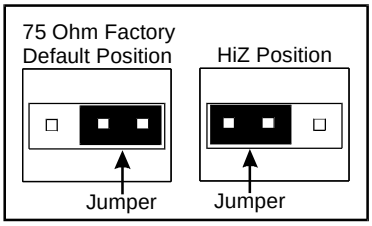
VIDEO LOOP THRU - the same video source is displayed on both the VIA touch panel(s) and the local TV

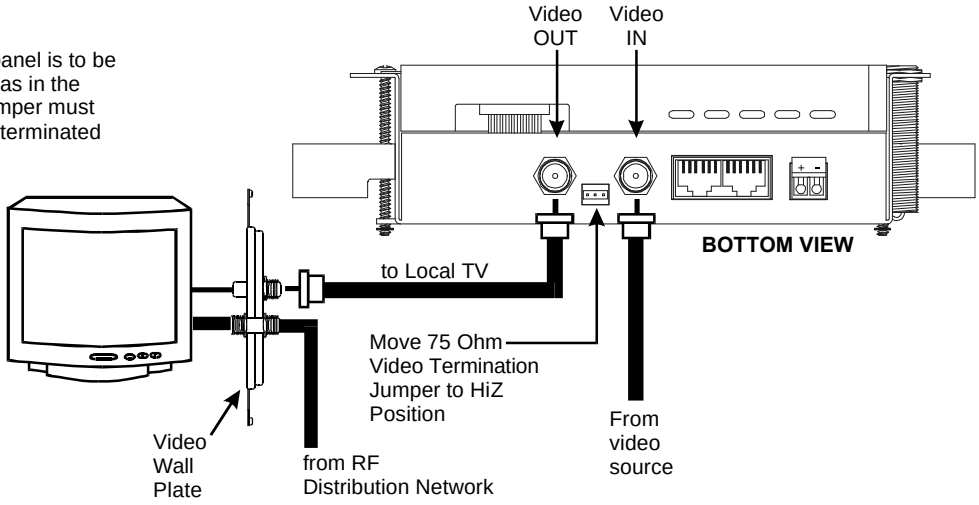




VIDEO TERMINATION JUMPER

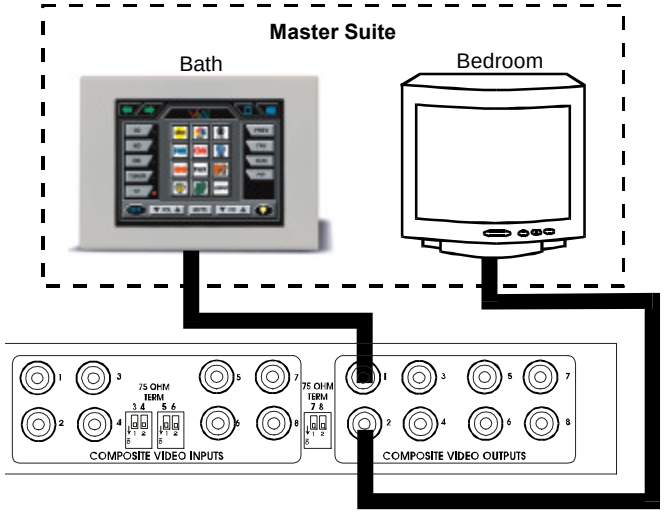
When the video signal coming into a VIA! panel is to be lopped back out of the panel to a local TV (as in the diagrams above) the Video Termination Jumper must be moved from the factory default 75 Ohm terminated position to the HiZ non-terminated position.





INDEPENDENT VIEWING

Pulling dual runs of coax to each room allows you to view programs independently on both monitors by designating each as it's own video zone.



REMOVING THE VIA! TOUCH PANEL FROM THE WALL

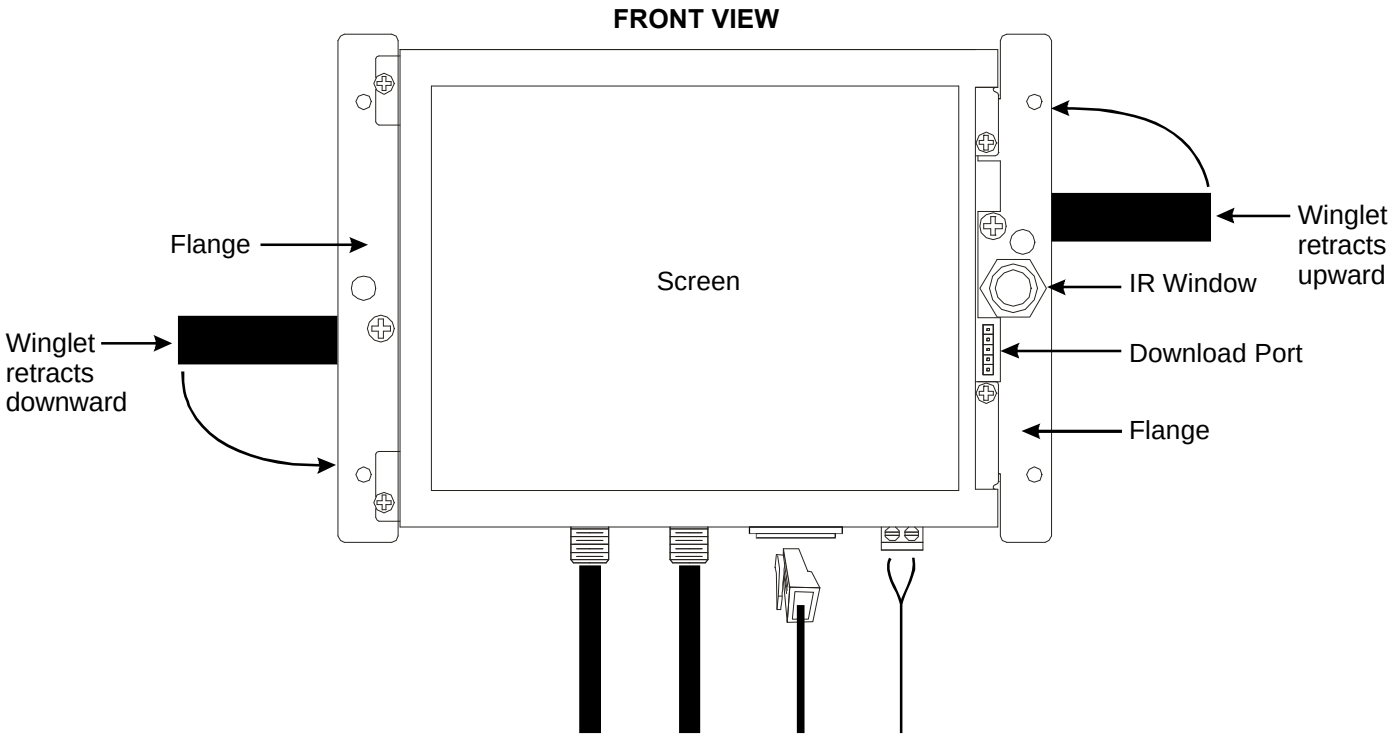
(Applicable only if the winglets are deployed)

1. Use a thin steel ruler or similar tool to slip under the bottom edge of the faceplate and gently pry it off the assembly.

2. Loosen the winglet screws until they retract inside the metal mounting box. Look through the openings in the mounting flanges to verify that the winglets have fully retracted. If they have not fully retracted you can insert a small diameter screwdriver in the adjacent hole to persuade the winglets into the box. Do not apply too much force on the winglets as they may cause damage to the circuit board.

3. Gently pull the top of the VIA! assembly out of the wall first and then slowly lift the rest of the assembly out of the wall. Stop immediately if the winglets grab the drywall or fracturing of the drywall may occur.

4. Lift the assembly up until the wires along the bottom edge are exposed. Label, disconnect and tie off the wires to keep them from dropping down inside the wall. Make sure to protect the Touch Panel/LCD assembly and faceplate from damage when it is not in the wall.



INSTALLING THE Z•035 IR TUBE IN THE VIA! ASSEMBLY

INSTALLATION TIP: Install the IR tube prior to mounting the touch panel in the wall!

IR TUBE INSTALLATION *(refer to diagram below)*

1. Carefully remove the front trim plate if it is in place.

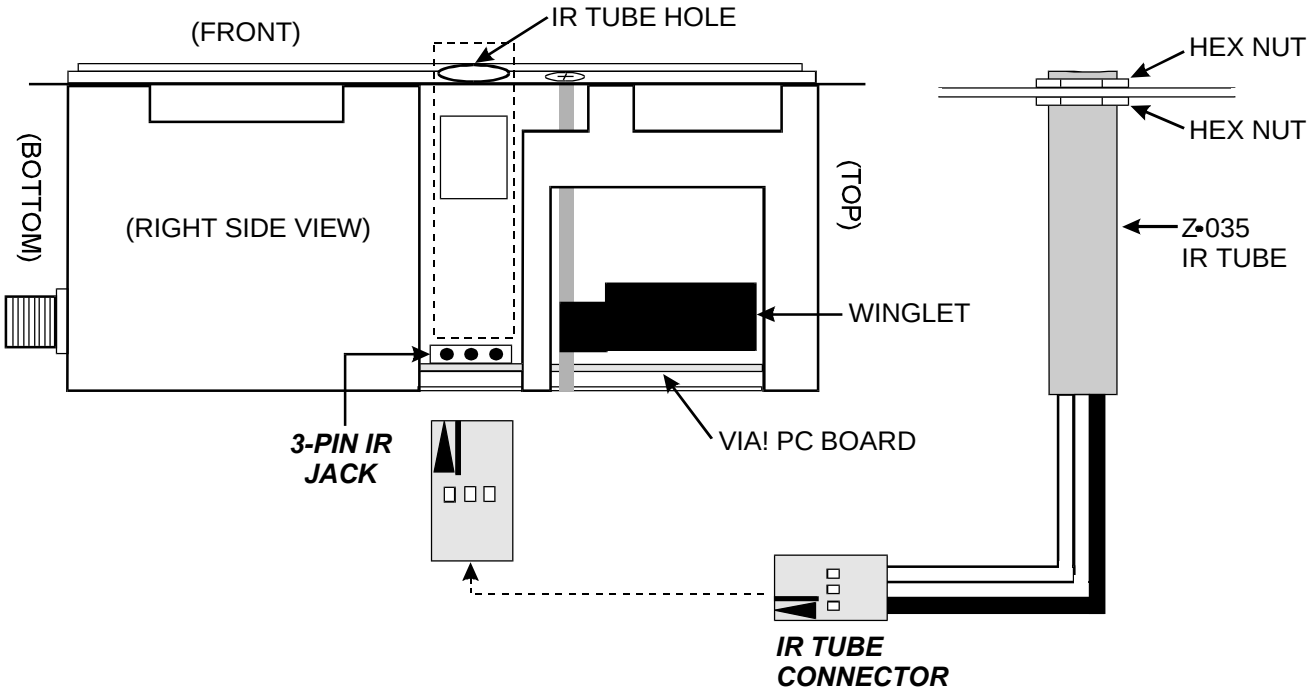
2. Lay the touch panel on a flat surface with the IR tube hole facing you.

3. Two hex nuts are enclosed with the VIA64 touch panel. Screw one hex nut down over the top of the IR tube approximately 1/4".

4. Refering to the diagram below, slide the IR tube connector onto the 3-pin IR jack located on the VIA! PC board. Make sure that the tab is on top and the arrow and black wire are to the left. The connector should slide easily onto the 3 pins. Depending on the size of your finger, a needlenose pliers may be needed. Be careful not to bend the pins.

5. Carefully push the remaining IR tube wire into the VIA! assembly back box, then place the top of the IR tube through the IR tube hole from underneath until the hex nut is flush with the underside of the flange.

6. Screw the second hex nut onto the top of the IR tube. If necessary, adjust both hex nuts so that the top of the IR tube protrudes no more than 1/8" to 1/4" above the flange - any higher and the trim plate might not seat properly.



VIA! PANEL INITIALIZATION

When power is first applied to the VIA! panel you will see the **VIA! UNIT INITIALIZING** screen appear.

After that, one of four messages will be displayed:

"Unprogrammed"
The panel has not yet been downloaded to.

"Stand Alone: Panel Name @ Zone #"
The panel has been programmed for a specific zone in a Stand-Alone system.

"Z•630: Panel Name @ Zone #"
The panel has been programmed for a specific zone in a Z•Series system.

"HD: Panel Name @ Zone #"
The panel has been programmed for a specific zone in a HD Series system.

NOTE: The VIA! panel will not respond to button presses during the download procedure.