VIA! VALET100EM

Tabletop/Under-Cabinet
10" Color Touch Panel
INSTALLATION MANUAL



ELAN®
HOME SYSTEMS

Important Information

NOTE: This equipment 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 for help.

Caution: Changes or modifications not expressly approved by ELAN could void the user's authority to operate this equipment.



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Introduction

The VIA!®Valet100EM Tabletop/Under-Cabinet Color Touch Panel is an intelligent, affordable solution for controlling audio, video, and automation equipment in a multi-room environment or as a stand-alone controller (in a Home Theater, for example). Whether it's on a desk in a home office, a nightstand by the bed, in the kitchen on the counter or mounted under a cabinet, the VIA!Valet100EM is the right choice. With IR control, RS-232 control, and full-motion video display, it has all of the features that make ELAN's other award-winning touch panels the most successful product in their category.

Touch Screen Technology

The VIA!Valet100EM utilizes 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 10 inch diagonal color LCD display is an active matrix TFT Liquid Crystal Display. Please use fingers only when operating this unit. Do not use pens, pencils, or styluses as these may damage the polyester film.

Features

- **Ideal for Desk or Countertop Use**
- **Mounts Easily Under Cabinetry**
- **Folds Down Flat and Out of the Way**
- **180° Back/Front 45°– 330°Left/Right Display Swivel**
- **Full Touch Screen Capabilities**
- **Full Motion Color Video Capabilities, Widescreen, Landscape Aspect Ratio**
- **10 Inch Color Active Matrix TFT Liquid Crystal Display**
- **IR and RS–232 Control Options**
- **Easy, Powerful VIA!®Tools Programming**

Package Contents

VIA!Valet100EM
PVIA1 Valet Wall Plate
PWR1 16VDC 1 Amp power supply
Cable Assembly
Mounting Template and Hardware

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Movable Swivel Display

The VIA!Valet100EM's display pivots back 90° on a central axis as shown below in ***Figure1-1***, it also pivots forward 45° from its central axis as shown in ***Figure1-2.*** The display rotates up to 330° from its stow position, allowing you to view the display from almost anywhere in the room as shown in ***Figure1-2***. When the VIA!Valet100EM is not being used, simply rotate the display back to the stow position. This feature helps protect the polyester plastic film display from environmental damage such as grease splatter.

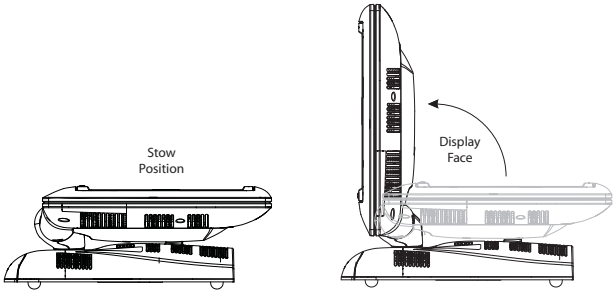


Figure 1-1: Back to Front Pivoting Display

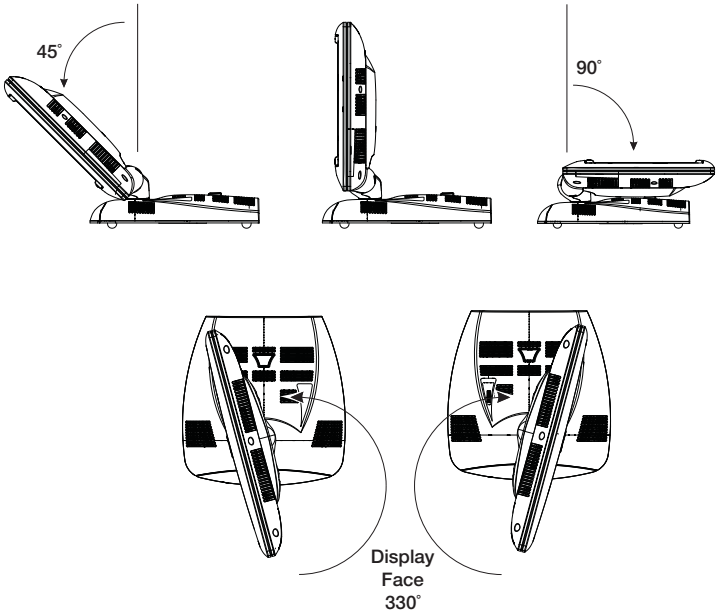


Figure 1-2: Display Rotation

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System Design

Planning

The VIA!Valet100EM can be installed and placed on almost any flat surface such as a desk, table or countertop, or easily mounted underneath a cabinet. Because it folds flat, the VIA!Valet100EM can be tucked neatly out of view when not in use. Before installing the VIA!Valet100EM it is essential to have a detailed and accurate system design. Talk with the homeowner to make sure all expectations and design goals are explored. The first step to a good design is to map the system. It is advisable to mark up a copy of the house floor plan with speaker, keypad, touch panel, volume control, and equipment locations, etc. Make sure that all locations are decided upon before pre-wiring commences so that all necessary wiring and installation hardware is in place.

It is essential that ALL system components are accounted for prior to the pre-wire stage. After establishing design goals with the homeowner, make a detailed list of all components. Include source equipment, keypads, touch panels, volume controls, amplifiers, communications gear, etc. Gather up any IR remote controls that may be necessary for final programming, or ensure that the IR codes for all equipment to be installed are available in the VIA!TOOLS IR Library.

When planning specific under cabinet installation locations for LCD Touch Panels, please keep the following tips in mind:

- **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 to respond incorrectly.**
- **Avoid installation in direct sunlight or strong ultraviolet light (such as grow lamps for plants). This can degrade or discolor the polyester film.**
- **Avoid installation over heat generating devices and/or in moist areas where condensation can form on the polyester film. Both heat and condensed moisture can affect touch screen performance.**
- **Avoid applying any foreign objects, such as adhesive labels, glue, etc. on the touch screen's polyester film. This can release chemicals that can discolor the clear film.**

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• The touch panel/LCD assembly should not be mounted near electronics that emit radio frequencies or electromagnetic interference (such as CRT monitors, light dim–mers, and some power supplies).

• Do not mount the VIA!Valet100EM outdoors or in areas exceeding its operating temperature range of –10°F(–23°C) to +115°F (+46°C). 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.

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Applications

Stand-Alone/Home Theater

The VIA!Valet100EM can be used for any stand-alone (non-ELAN) system application or as a Home Theater controller. The diagram below shows a basic application using one VIA!Valet100EM, a PVIA1 Valet Wall Plate and an ELAN IRD4 Amplified IR Connection Block to control a stack of A/V equipment.

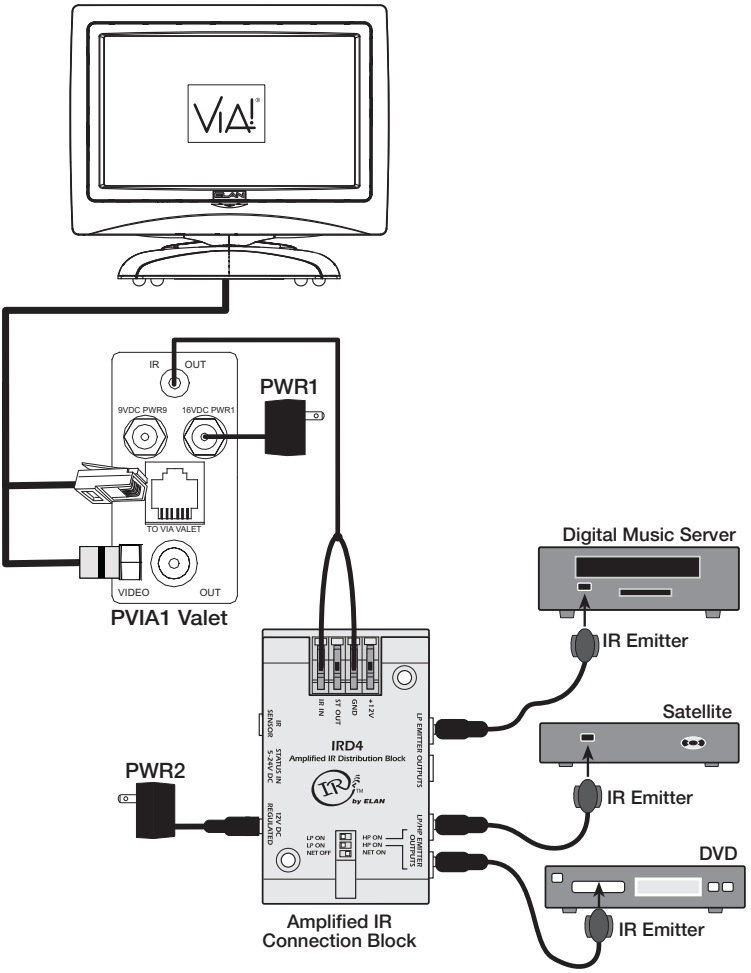


Figure 2-1: Stand-Alone Application

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Stand-Alone/Home Theater-Expanded

Stand-alone systems (without an ELAN multi-room controller) can be as simple as one VIA!Valet100EM controlling one IR source, or as complex as multiple VIA!70EM's, Ole´Touchpads, and IR sensors all controlling many IR sources. The diagram below shows a VIA!Valet100EM, A PVIA1 Valet Wall Plate, two VIA!70EMs and a PVIA4 Wall Plate controlling a stack of A/V gear.

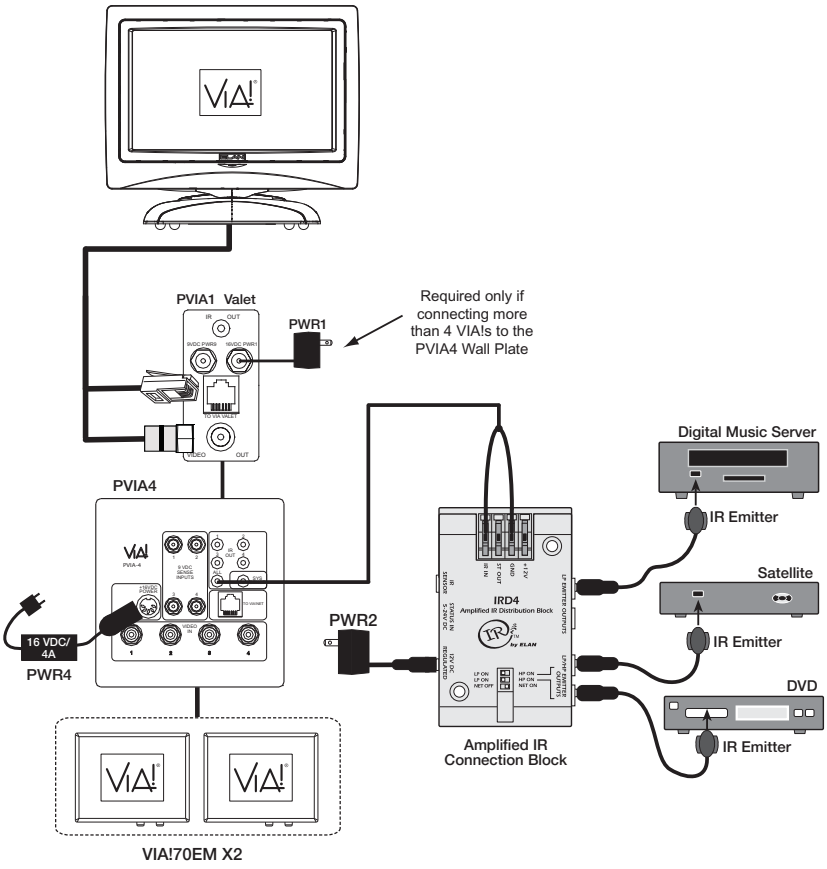


Figure 2-2: Home Theater Application

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ELAN S12

ELAN's SPP Precision Panel for the System12 Multi-Room A/V Controller (S12) makes quick work out of configuring a VIA!Valet100EM Touch Panel to control S12 zones. Unlike in-wall VIA!s, a PVIA1 Valet Wall Plate is necessary when using a VIA!Valet100EM with an S12. The diagram below shows one VIA!Valet100EM Touch Panel, one PVIA1 Valet Wall Plate, four VIA!70EM Touch Panels, and a SPP connected to an ELAN S12.

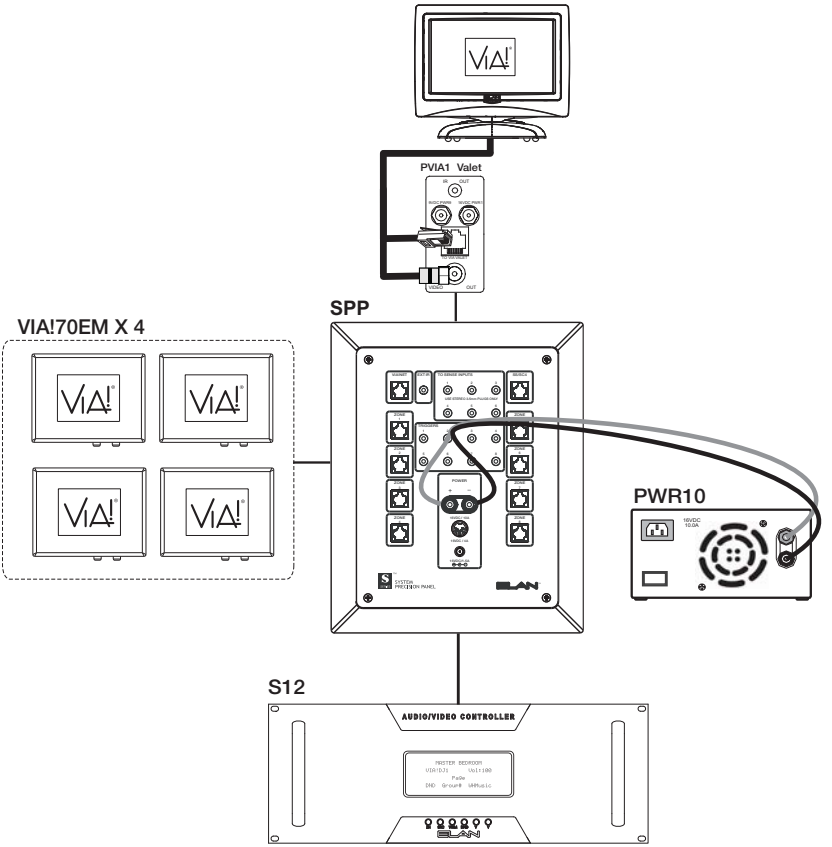


Figure 2-3: S12 Application

NOTE: A PS12 Precision Panel may also be used with a System12 Multi-Room Controller.

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ELAN System8

ELAN's SPP Precision Panel for the System8 Multi-Room A/V Controller (S8) makes configuring a VIA!Valet100EM Touch Panel to control S8 zones easy. Unlike in-wall VIA!s, a PVIA1 Valet Wall Plate is necessary when using a VIA!Valet100EM with an S8. The diagram below shows one VIA!Valet100EM Touch Panel, one PVIA1 Valet Wall Plate, four VIA!70EM Touch Panels, and an SPP Precision Panel connected to an ELAN S8.

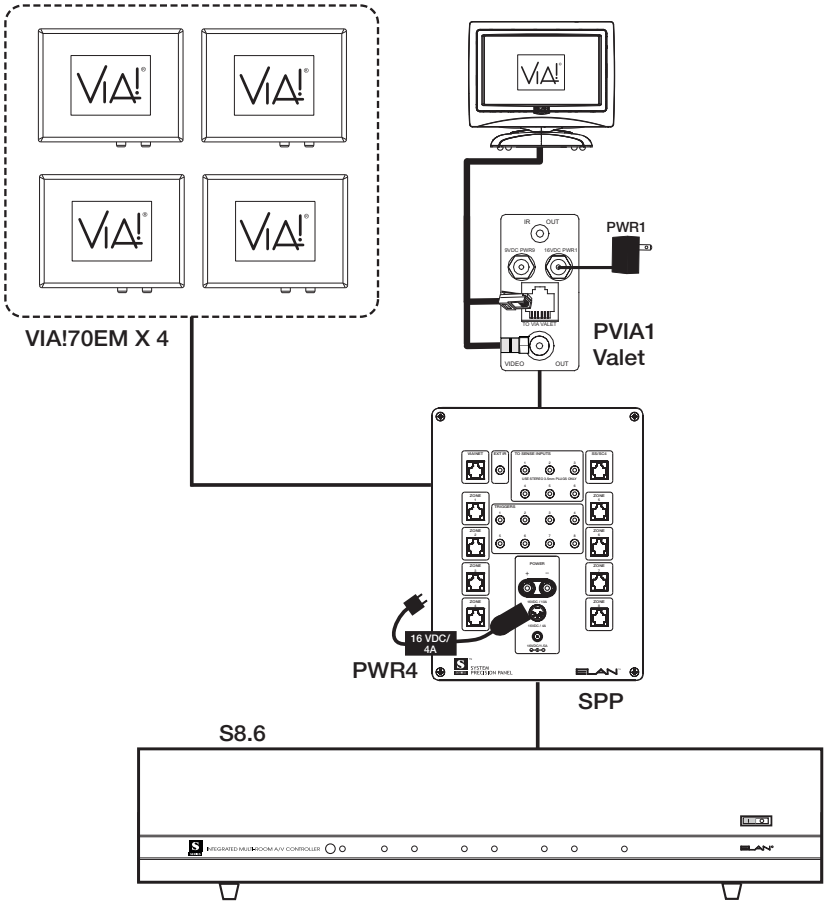


Figure 2-4: S8.6 Application

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ELAN System6

The VIA!Valet100EM's flexibility make it a good candidate for System6 (S6) applications. Use a PVIA1 Valet Wall Plate for each VIA!Valet100EM to be installed. The diagram below shows a VIA!Valet100EM, a PVIA1 Valet Wall Plate, four VIA!70EMs and a SPP Precision Panel configured for use with an ELAN S6.

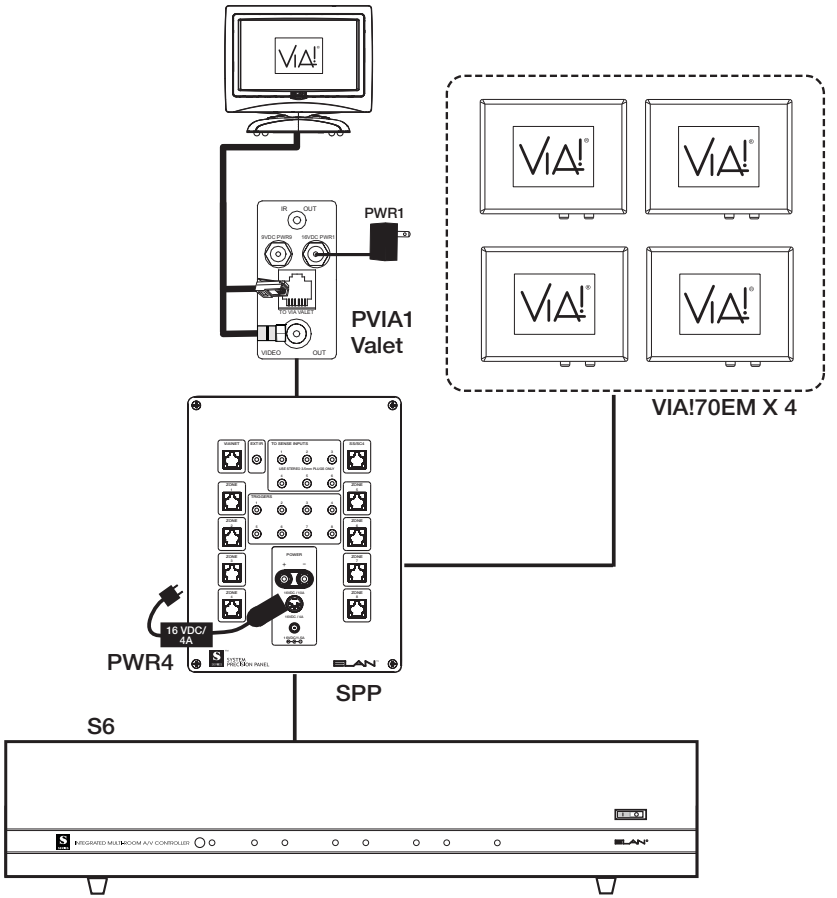


Figure 2-5: S6 Application

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RS-232 Controlled Devices (Regardless of System Type)

By adding an SC4 Serial Controller or SS1 System Station to any system using VIA! Touch Panels, powerful RS-232 control becomes possible for a wide assortment of devices such as security systems, lighting systems, HVAC, spa control, A/V gear, etc. Use the appropriate PVIA Wall Plate/Precision Panel for the type and number of VIA! Touch Panels in the system.

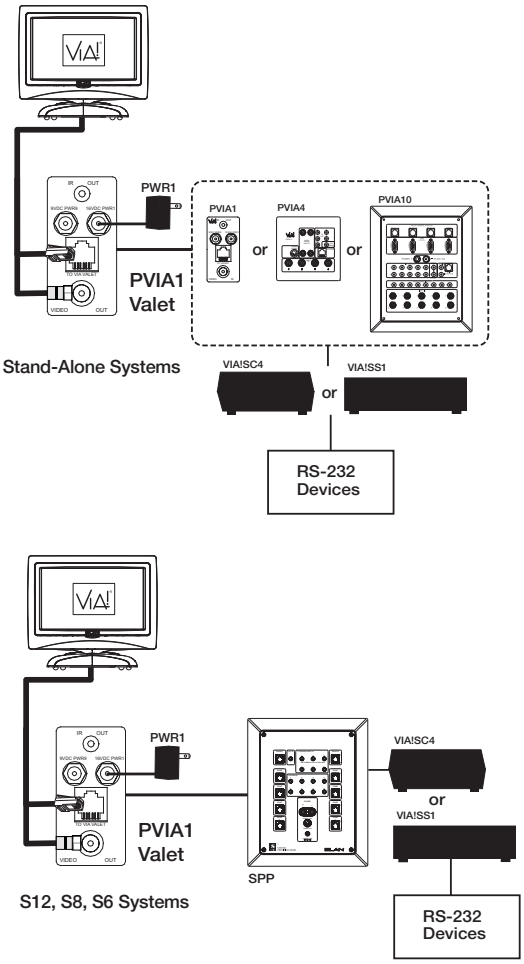


Figure 2-6: RS 232 Applications

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Installation

Pre-Wire

The VIA!Valet100EM requires power, control, status and video to function correctly.

- **Control, Status, & Power:** Cat-5
- **Video:** RG-6 or RG-59 Coaxial Cable

Control, Status, Power

Run Cat-5 wire from the main central equipment location to the location where the touch panel and PVIA1 Valet Wall Plate are to be installed. The VIA!Valet100EM will be powered locally using the included PWR1 Power Supply connected directly to the PVIA1 Valet Wall Plate.

Video

The VIA!Valet100EM has both a Video Input and a Video Loop Output for Composite Video signals. Run RG-6 or RG-59 coaxial cable from the head-end location (possibly a video switcher) to the location where the touch panel and PVIA1 Valet Wall Plate are to be installed.

If desired, the VIDEO Loop output can be routed directly to a local TV.

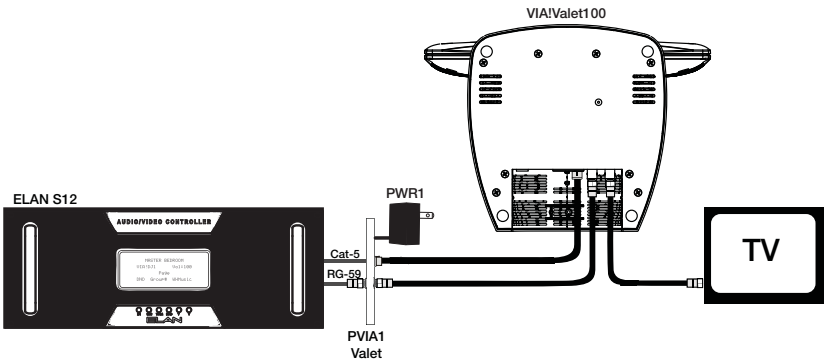


Figure 3-1: Overall Wiring Example

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Be careful not to make sharp bends when installing coax. F-to-RCA connectors will be necessary to adapt the RCA composite output of the video source (or switcher) to the F-connector of the coax run. The VIA!Valet100EM has F-connectors on both the VIDEO IN Input and VIDEO OUT Output.

Video Termination Switch

When the video signal coming into a VIA! Touch panel is to be looped back out of the panel to another VIA! or TV, an F connector (VIDEO OUT) is provided. The Video Termination Switch must be moved from the factory default to the OPEN (HiZ) position.

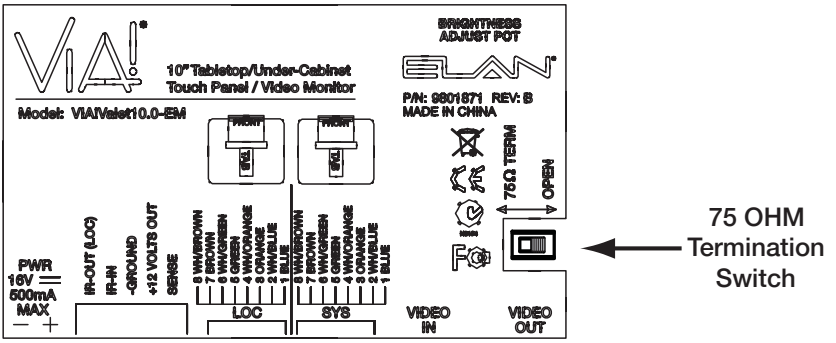


Figure 3-2: Video Termination Switch

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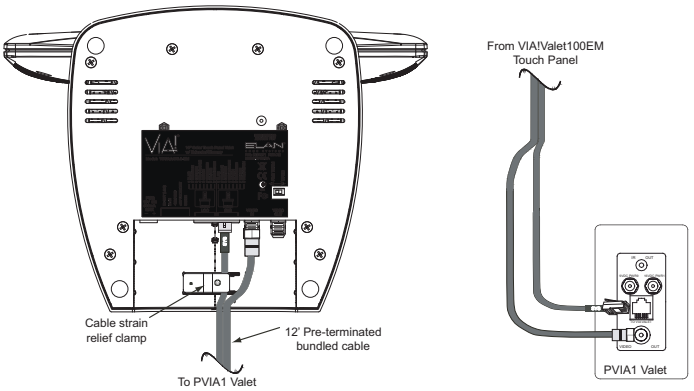
VIA!Valet100EM Touch Panel Connections

The VIA!Valet100EM Touch Panel comes with a 12' pre-terminated bundled cable assembly which includes both Cat-5 and RG-59 coax cable. To attach the bundled cable between the VIA!Valet100EM Touch Panel and the PVIA1 Valet Wall Plate:

1. Connect one end of the RG-59 cable to the VIDEO IN port on the VIA!VALET100EM Touch Panel. Connect the other end to the VIDEO OUT jack on the PVIA1 Valet Wall Plate.

2. Connect one end of the RJ45 cable labeled "SYS" to the SYS port on the VIA!Valet100EM. Install cable strain relief clamp. Connect the other end to the TO VIA VALET jack on the PVIA1 Valet Wall Plate.

3. Optional Local Port Connection: The LOCAL port is not normally used with the VIA!Valet100EM. If you need to use the LOCAL port, connect the RJ45 connector labeled "LOCAL" to the LOCAL port on the VIA!Valet100EM. Connect the other end to other locally controlled components.



INSTALLATION TIP:

The LOCAL port is not normally used with the VIA!Valet100EM. If not using the local connection ELAN recommends removing the unused Cat-5 cable by peeling it from the 3-cable pre-terminated bundle and discarding.

Figure 3-3: PVIA1 Connections

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Under Cabinet Installation

The VIA!Valet100EM is ideal for use installed underneath a kitchen or workshop cabinet. This instruction assumes all pre-wiring has been previously completed. To install VIA!Valet100EM under a cabinet:

1. Choose an appropriate mounting location underneath the desired cabinet or shelf.
2. Using the provided VIA!Valet100EM Adhesive Backed Mounting Template , carefully place the template in position. Make sure the arrow on the template is pointing toward the forward edge of the cabinet, as shown below in ***Figure 3-4*** .
3. Using a 3/16" drill bit, create four holes in cabinet from the center marks made in Step 2.

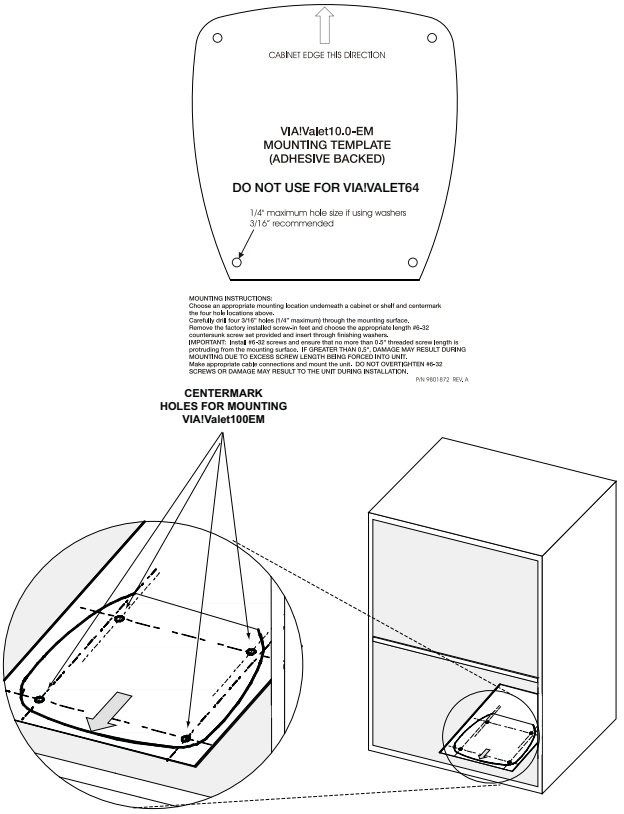


Figure 3-4: Template Center Marks

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4. Remove the factory installed screw-in feet from the underside of the VIA!Valet100EM.

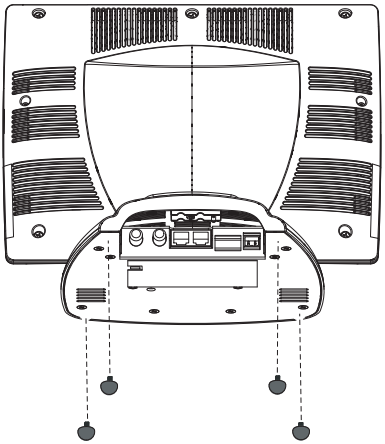


Figure 3-5: Remove Feet

5. Measure the thickness of the bottom of the cabinet or shelf. Select the shortest screw length which will pass completely through the cup washer and cabinet shelf. Screw length must protrude from underside of cabinet less than 0.5 inch.

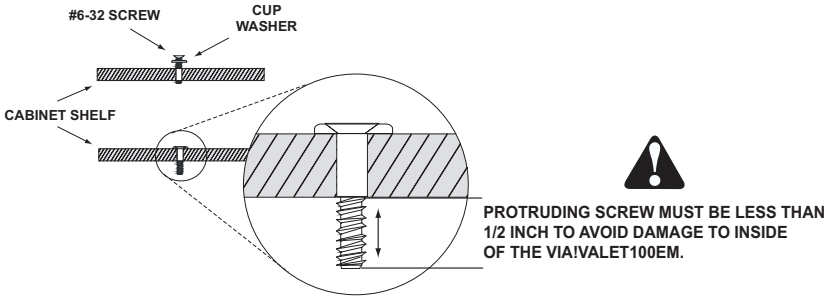


Figure 3-6: Cabinet Thickness

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6. Install the #6-32 screws through the the cabinet bottom to the VIA!Valet100EM base, and hand tighten. If using a power drill, start out with the lowest clutch setting.

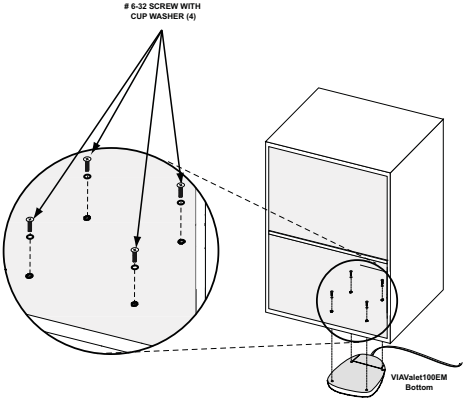


Figure 3-7: Base Mounting

7. Make the appropriate cable connections and secure the VIA!VALET100 to the cabinet by tightening the four screws. **DO NOT OVER TIGHTEN**



Figure 3-8: Under Cabinet Mount

NOTE: A VIA!Valet100EM may replace a previously installed VIA!Valet64 with no modifications to the cabinet. Two extra holes are provided on the base plate of the VIA!Valet100EM that will allow the mounting holes to align exactly when upgrading from a VIA!Valet64.

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Connections

Stand-Alone/Home Theater

The VIA!Valet100EM is ideal for use as a stand-alone system controller or Home Theater controller. For control of a Home Theater system, the VIA!Valet100EM and PVIA1 Valet Wall Plate are combined with a method for IR distribution such as ELAN's IRD4 Amplified Connection Block. Signals originate at the VIA!Valet100EM, pass through the PVIA1 Valet Wall Plate, then travel to the connection block where they are routed to each component.

NOTE: *This application does not allow for independent control of identical sources. An ELAN multi-room preamp,SS1 System Station or SR-1 System Controller should be used in that scenario.*

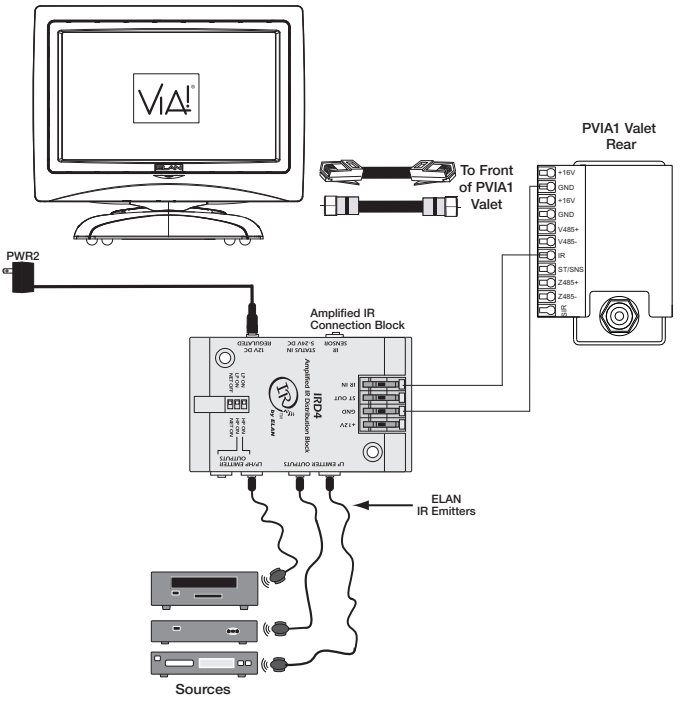


Figure 3-9: Stand-Alone Connections

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ELAN System12

ELAN's **System12 (S12)** Multi-Room A/V Controller was designed with VIA! Touch Panels in mind. Provisions have been made on the SPP Precision Panel for complete VIA! connectivity. Connect PVIA1 Valet Wall Plate to the VIA!Valet100EM as shown. Connect IR, RS485+/- and GND between the PVIA1 Valet Wall Plate and the SPP Precision Panel as shown. Please consult the SPP Installation Manual for additional details.

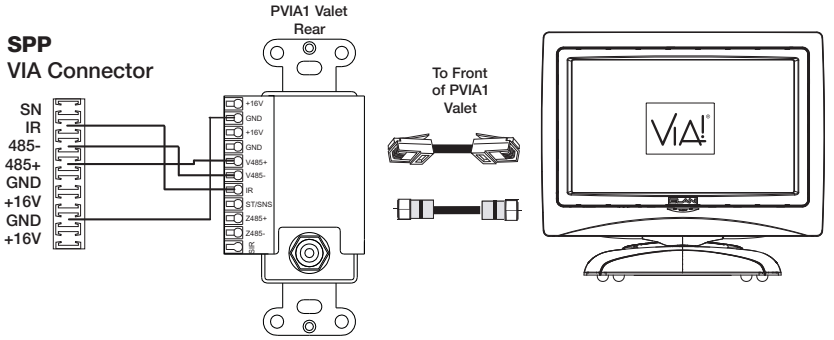


Figure 3-10: S12 Connections

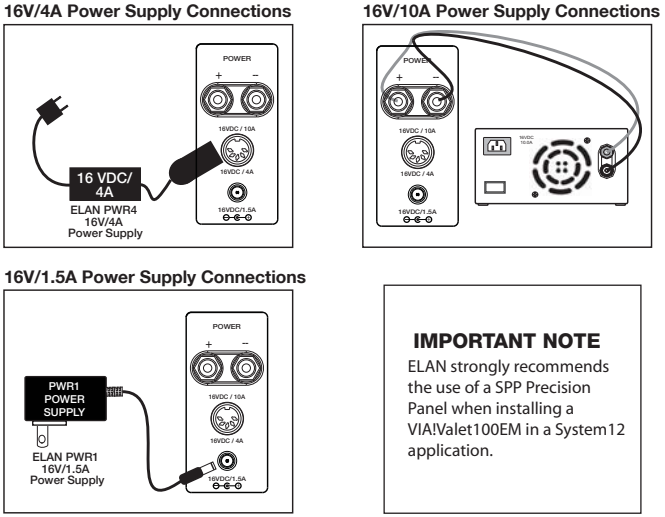


Figure 3-11: SPP Power Connections

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ELAN System8

Use a PVIA1 Valet Wall Plate and an SPP Precision Panel when installing VIA!VALET100 in a **System8 (S8)**. Connect the PVIA1 Valet Wall Plate to the VIA!Valet100EM as shown. Connect IR, RS485+/-, and GND between the PVIA1 Valet Wall Plate and the SPP, as shown. Multiple VIA!s will connect in the same way. Please consult the SPP Installation Manual for additional details.

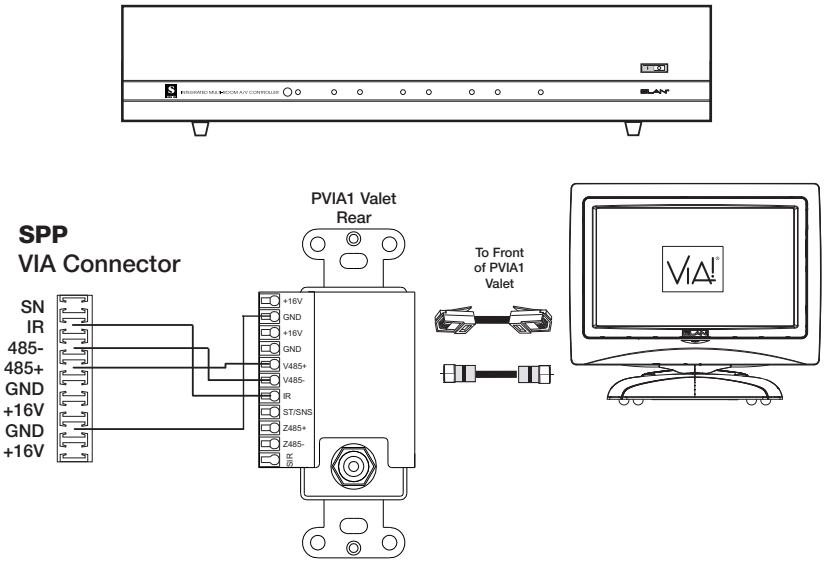
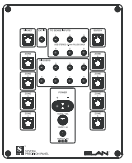


Figure 3-12: S8 Connections

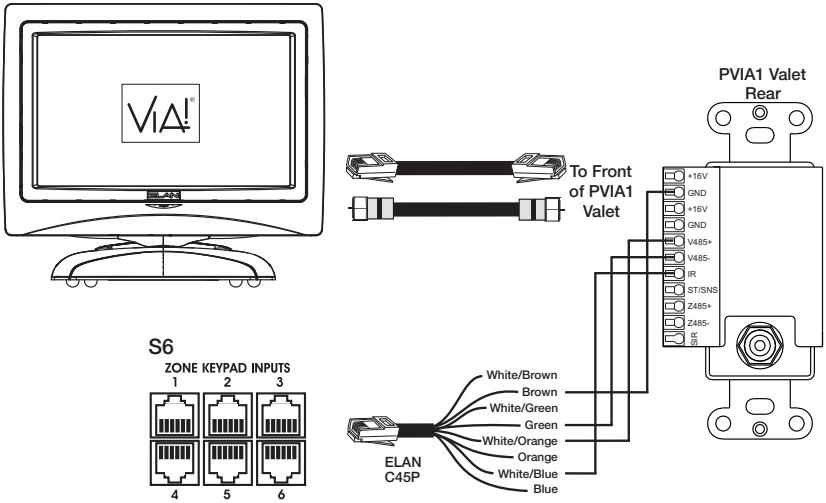


ELAN
Precision Panels
save time
and make sense
out of complex
wiring jobs!

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ELAN System6

Use VIA!Valet100EM's to add functionality and flexibility to ELAN's **System6 (S6)** six-source, six-zone Integrated Multi-Room Controller. A PVIA1 Valet Wall Plate must be used when interfacing VIA!Valet100EM's to an S6. Connect PVIA1 Valet Wall Plate to the VIA!VALET100 as shown. Connect IR, RS485+/- and GND between the PVIA1 Valet Wall Plate and the S6, as shown. Multiple VIA!s will connect in the same way. Please consult the SPP Installation Manual for use of an SPP Precision Panel with a S6.



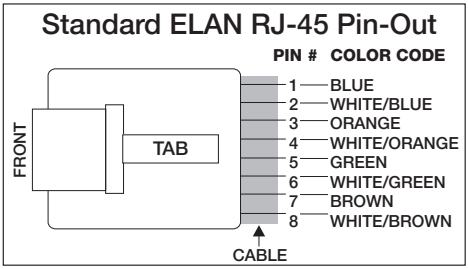


Figure 3-13: S6 Connections



ELAN Precision Panels save time and make sense out of complex wiring jobs!

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External Power

Using the External Power Connector

In applications where it is not desirable to use a local PVIA1 Valet Wall Plate is is recommended to use 18AWG 2-conductor wire between the PWR1 and the VIA!Valet100EM Touch Panel.

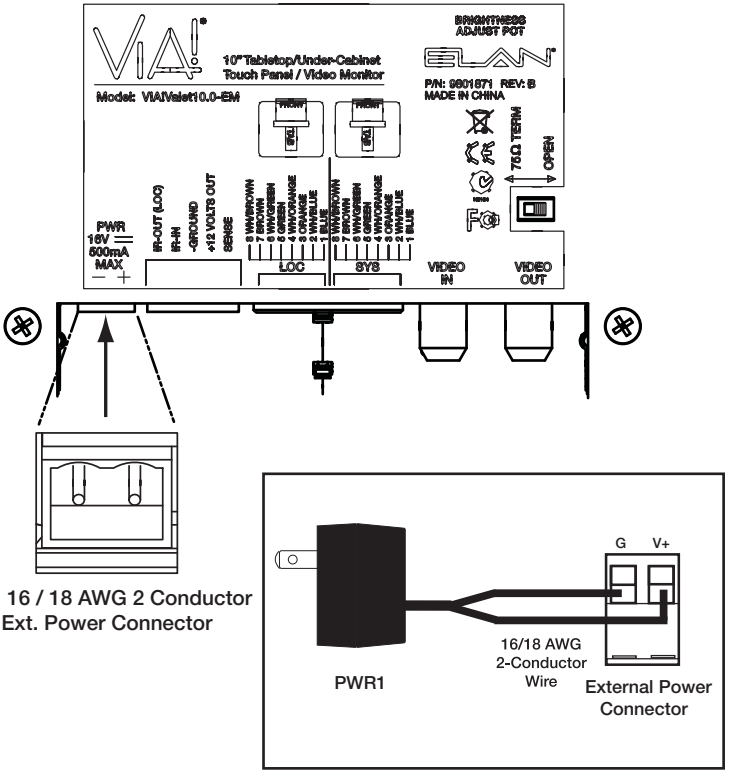


Figure 3-14: External Power

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Local Interface Port

Use this connector when utilizing local control features such as local source control, local IR receivers, or sense-enabled automated sequences.

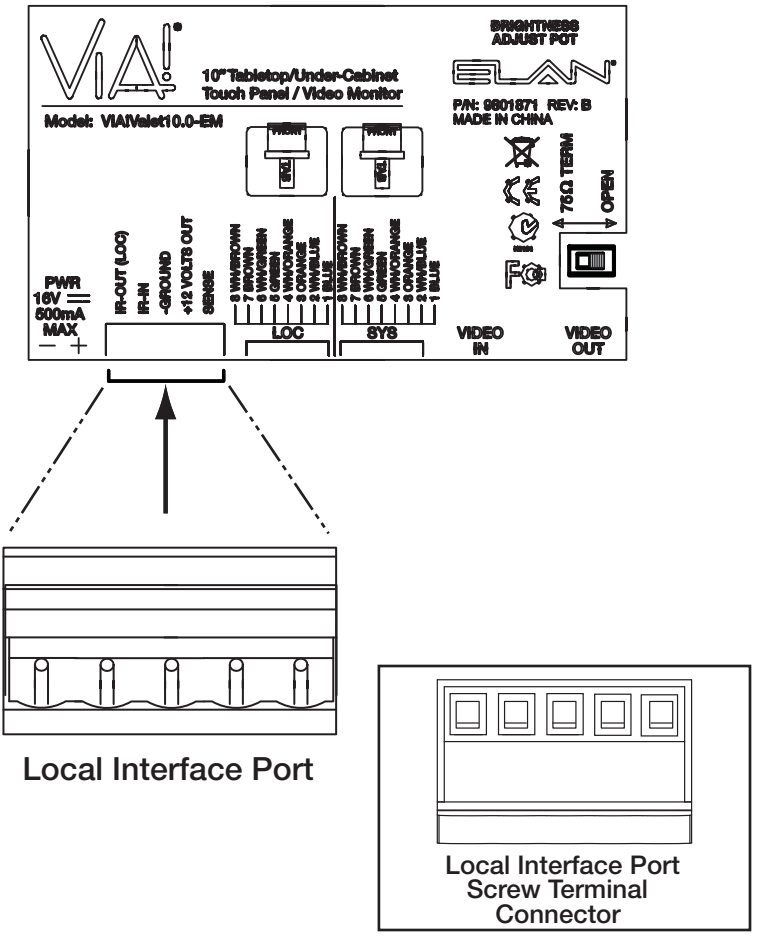


Figure 3-15: Local Interface Port

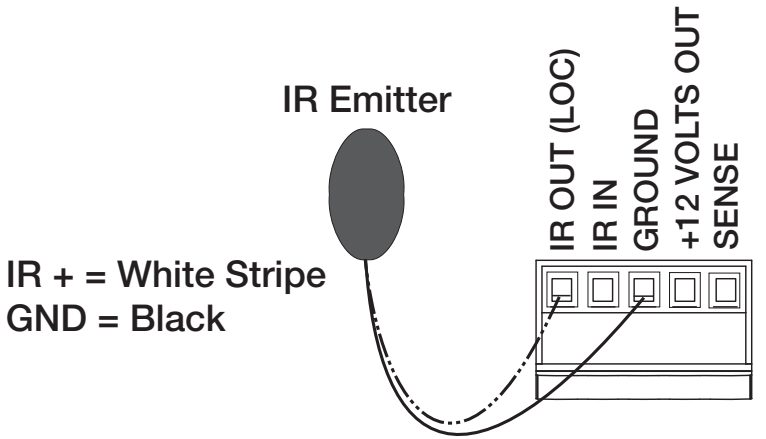
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IR OUT (LOC)

The IR OUT (LOC) port is typically used to control a device that is not part of the main IR system, such as a TV or DVD player located within the same room as the touch panel, or an ELAN Electronic Volume Control. IR is routed to an emitter or IR distribution block connected to the IR OUT (LOC) in two ways:

1. Any IR signal that is received from the Local IR Input is sent out of the Local IR Output RJ-45 Port, the SYS IR Output RJ-45 Port and the IR OUT (LOC) port from the Interface Port.

2. IR signals may be specified in programming as "Local" and be routed through the Local IR OUT (LOC) port. See VIA!TOOLS "Help" file for specific information about IR routing.



VIA!Valet 100 EM Local Interface Port

Figure 3-16: IR Out (LOC)

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IR IN

The Local IR Input is typically used to connect an external IR receiver to the touch panel. Typical applications include a plasma-friendly IR receiver (ELAN IRS8EP, for example) placed near a TV, or an auxillary IR receiver placed in an area more convenient than the location of the touch panel. Any IR signal that is received from the Local IR Input is sent out the Local IR Output RJ-45 Port, the System IR Output RJ-45 Port and the IR Out from the Interface Port.

Connect IR IN, GROUND, and +12 VOLTS as shown in ***Figure 3.17***.

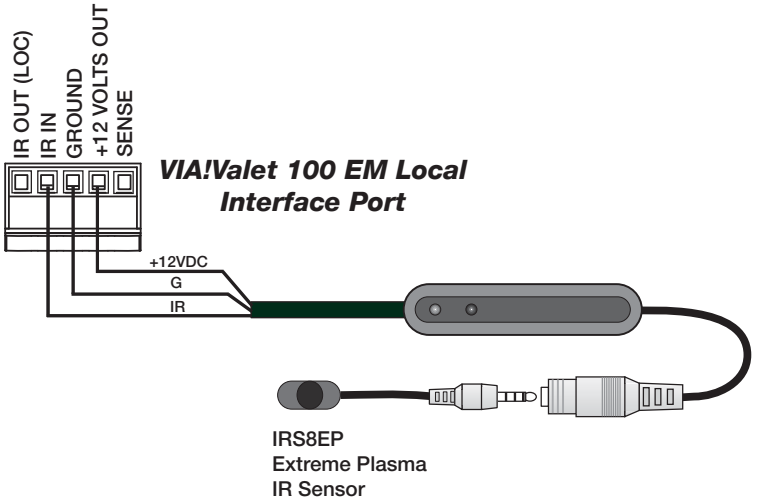


Figure 3-17: IR IN

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Sense Port

The Sense Port allows a contact closure to trigger IR or RS-232 sequences programmed in VIA!TOOLS. For example, use a motion sensor to activate a contact closure and cause automated actions such as system power on, drapes closed, and lights dimmed.

Connect SENSE and GROUND to a contact closure device as shown in ***Figure 3.18***.

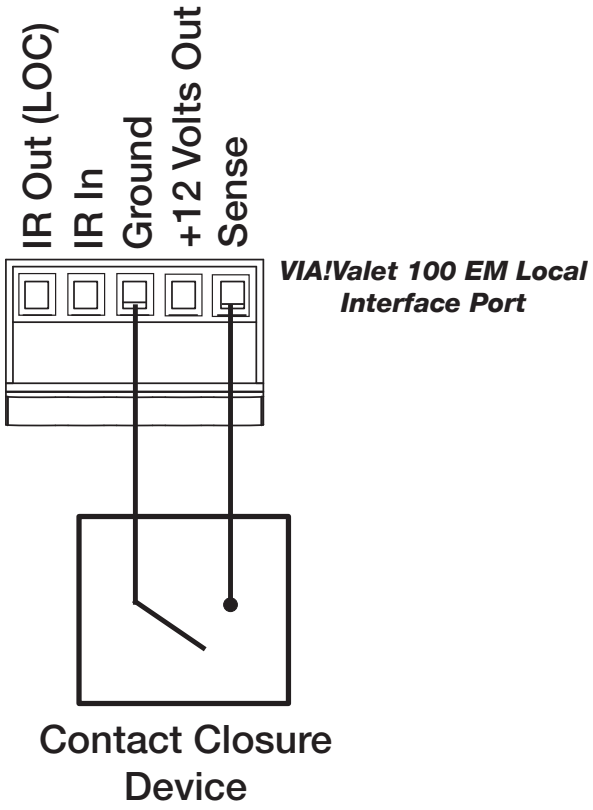


Figure 3-18: Local Sense

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Operation

The VIA!Valet100EM is designed to be simple and intuitive to operate. Each source is custom programmed to work just the way the homeowner desires. This unit is a true touch screen controller; no hard buttons or stylus required! Use a finger (or fingernail) to lightly press on the screen each time an action is required.

Timeout

VIA!TOOLS provides separate Timeouts for Source page, Off page, Lights page, Video, and Cameras. Each of these values should be set with the homeowner's lifestyle in mind.

Video Mode/Camera Mode

When in Camera Mode, the VIA!Valet100EM utilizes hidden buttons on the display that allow for NEXT, PREVIOUS, SCAN ON, SCAN OFF functionality. A fifth button, EXIT FROM VIDEO MODE, is also present. These buttons are Autobuilt in VIA!TOOLS and will allow the homeowner to display a specific camera or all cameras, as desired. See VIA!TOOLS Help file for more specifics.

Video Overlays

Overlays are special pages built in VIA!TOOLS to control video sources while still viewing the video on the VIA! Each of these overlays is custom built and assigned in programming. See VIA!TOOLS Help file for more specifics.

Cleaning

To clean the VIA!Valet100EM's screen, first use a soft dry cloth to remove contamination. If dirt is still present, use a damp cloth that has been squeezed of excess water. If dirt is still present, then use a non-abrasive cleaner or detergent to clean the screen. Use of strong chemicals and/or some cleaning agents may discolor the polyester film that makes up the touch screen.

The following products have been tested and approved for cleaning VIA! Touch Panels:
Windex Glass Cleaner®, **Formula 409® Cleaner**, and **Mr. Clean®**.

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Cleaning Mode

Cleaning Mode is simply a button created on the VIA!Valet100EM with a 30 second delay programmed under it. This allows the homeowner to clean the screen without initiating any commands to the system. The CLEAN button should be placed in a location that the homeowner or housekeeper can easily remember (see the VIATOOLS HELP File for more details).

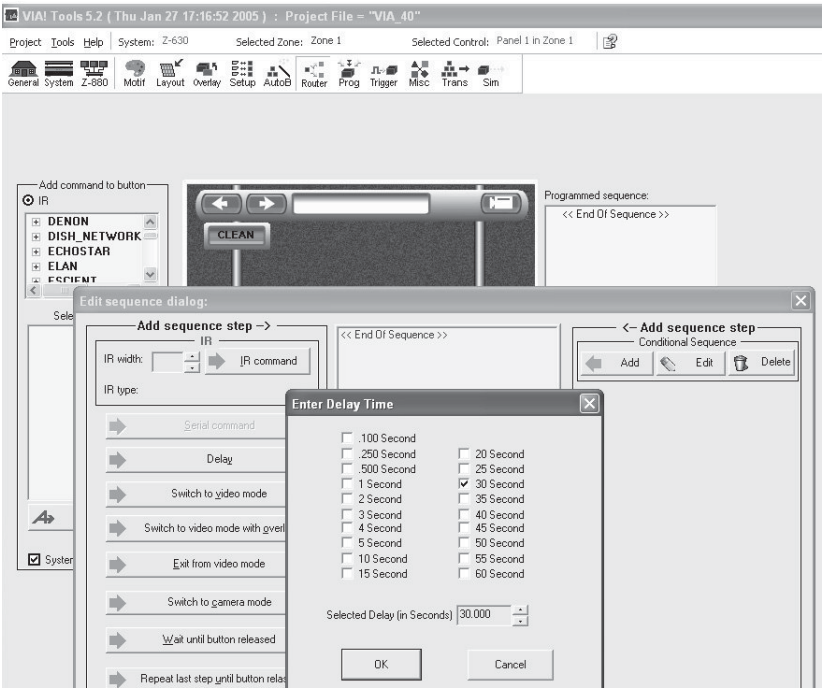


Figure 4-1: Cleaning Mode Programming

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Chapter 5: Troubleshooting

Table5-1:General Troubleshooting

Symptom	Cause	Solution
Unit will not activate/turn-on when screen is touched	1. No Power Supply Connected 2. Incorrect Power Supply 3. Power Supply defective 4. Incorrect power connections 5. Logo Badge too tight	1. Connect PWR1 or PVIA1 Power Supply 2. Use PVIA1/PWR1 16VDC Power Supply 3. Test for 16VDC with a multimeter 4. Verify power connections 5. Loosen screws
Unit will activate but no IR control of sources and/or multi-room controller	1. Incorrect IR connections 2. Incorrect or missing IR/RS232 commands in VIA!TOOLS	1. Verify IR connections and test with IR Emitter with talkback LED 2. Verify commands in VIA!TOOLS
Unit will activate, but displays UNPROGRAMMED	Does not contain a VIA!TOOLS program	Download to unit with VIA!TOOLS setup software

Table 5-2: Video Troubleshooting

Symptom	Cause	Solution
No video displayed when TV or Camera icon touched	1. Video cable not connected or incorrectly connected 2. Video In/Out connected backwards 3. Video source turned off	1. Verify video connections 2. Connect properly 3. Turn on source
Incorrect camera or video source displayed	1. Source video output incorrectly connected 2. Incorrect or missing IR/RS232 commands in VIA!TOOLS	1. Properly connect Source video output 2. Verify commands in VIA!TOOLS

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Appendix A: Specifications

Table A-1:Specifications

Specifications	
Connections	Local Port (RJ-45), System Port (RJ-45), Video IN (“F” connector), Video Loop OUT (“F” connector) Power Terminal (2 Pin), Local Interface (5 Pin)
Wiring Requirements	Cat-5 (Data), RG-6 or RG-59 coaxial cable (Composite Video)
Display **Graphics Resolution** **Signal** **Viewing Angles**	High Contrast 10” LCD 372 pixels (W) 234 lines (H) NTSC/PAL (auto-switch) Composite Video 60º Up 40º Down, 45º Left/Right from Center
Power	16VDC, 1Amp.
Dimensions	11”(W) x 9.8”(H) x 9.2”(folded) (D) 279.4 mm (W) x 248.92 mm (H) x 233.68 mm (folded) (D)

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Appendix B: Programming

All VIA! Touch Panels must be programmed with ELAN's **VIA!TOOLS** Setup Software using a PC running Windows 98 or higher. VIA!TOOLS utilizes the **VIA!Learner** to interface between the PC and the touch panel to be programmed. It is NOT NECESSARY to power the VIA!VALET100EM during programming, making it possible to program and download to multiple units prior to installation. Please see VIA!TOOLS Help file for complete step-by-step information on programming VIA! Touch Panels. Remove black stopper cap from top of Valet base as shown in ***Figure B-2*** to expose the Programming Port.

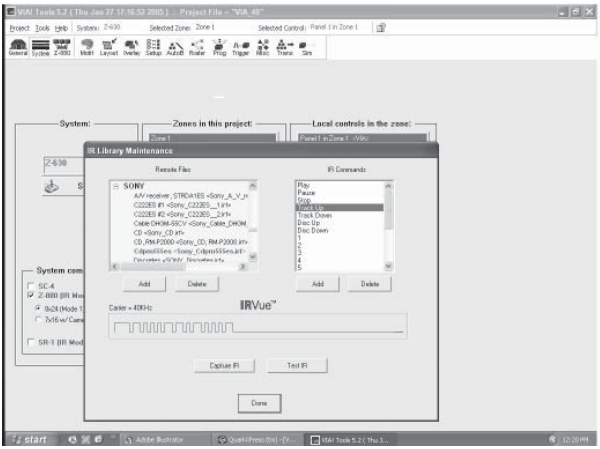


Figure B-1: VIA!TOOLS Programming

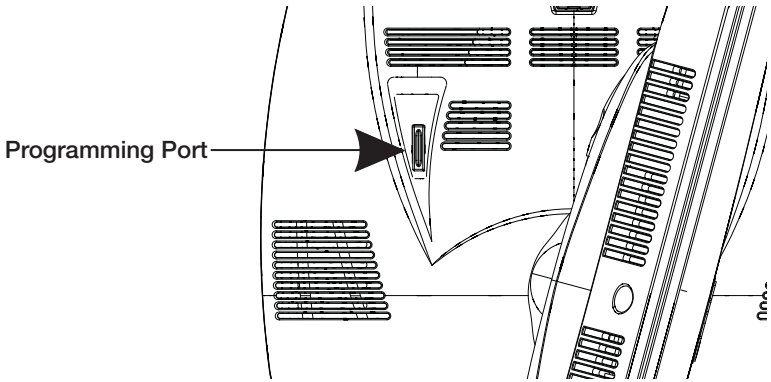


Figure B-2: Programming Port

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Appendix C: Added Feature

When VIA!Valet100EM is mounted in an under cabinet application, the panel trim bezel "Logo" may be removed and remounted in a 180 degree configuration:

1. Remove (2) screws from rear panel location as shown in ***Figure C-1.***
2. Remove Logo badge, rotate 180 degrees and replace.
3. Tighten mounting screws carefully. DO NOT OVER TIGHTEN.

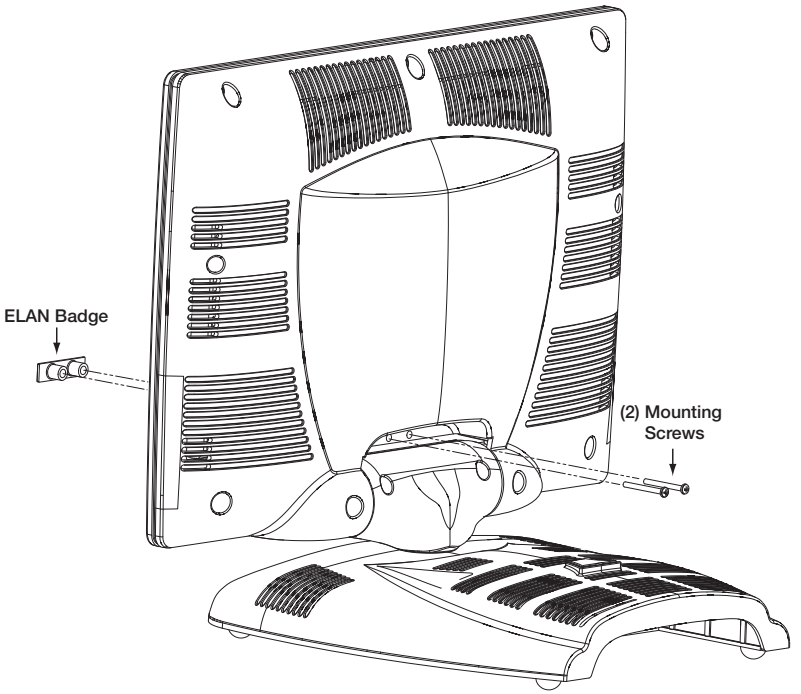


Figure C-1: Badge Removal

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Notes:

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Limited Warranty

ELAN HOME SYSTEMS L.L.C. ("ELAN") warrants the VIA!Valet100EM to be free from defects in materials and workmanship for the period of two years (2 years) from date of purchase. If within the applicable warranty period above purchaser discovers that such item was not as warranted above and promptly notifies ELAN in writing, ELAN shall repair or replace the item at thecompany's option. This warranty shall not apply (a) to equipment not manufactured by ELAN, (b) to equipment which shall have been installed by other than an ELAN authorized installer, (c) to installed equipment which is not installed to ELAN's specifications, (d) to equipment which shall have been repaired or altered by others than ELAN, (e) to equipment which shall have been subjected to negligence, accident, or damage by circumstances beyond ELAN's control, including, but not limited to, lightning, flood, electrical surge, tornado, earthquake, or other catastrophic events beyond ELAN's control, or to improper operation, maintenance or storage, or to other than normal use of service. With respect to equipment sold by, but not manufactured by ELAN, the warranty obligations of ELAN shall in all respects conform to the warranty actually extended to ELAN by its supplier. The foregoing warranties do not cover reimbursement for labor, transportation, removal, installation or other expenses which may be incurred in connection with repair or replacement.

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P/N 9905959 REV: B

MANUAL, VIAVALET100EM
LINEAR P/N 9905959 REV:B (2008)
INK: BLACK
MATERIAL: 60 LB WHITE COATED PAPER
SCALE: 1-1
FLAT SIZE: 11.000X8.500 FLAT, TOL: +/- .40.
FOLD ONCE TO 5.500X8.500
SADDLESTITCH.
ARTWORK CREATED BY ELAN HOME SYSTEMS
NUMBER OF PAGES: 40