MVP-7500 7.5" Modero ViewPoint Touch Panel

Overview

The AMX MVP-7500 panel (FG5965-01) uses an internal wireless compact flash card to communicate with a NetLinx Master via a standard 802.11g Wireless Access Point. The MVP-7500 utilizes a 7.5" Color Passive LCD to display a 640 x 480 pixel image using over 4000 colors, and features programmable firmware that can be upgraded via either the wireless card or the mini-USB port.

The MVP-7500 also features nine programmable external pushbuttons and two sets of programmable LEDs. On the 4 available IR channels, this panel utilizes both AMX IR frequencies (38 KHz or 455 KHz) and 2 additional user-defined IR libraries.

For detailed installation, configuration, programming, file transfer, and operating instructions refer to the *MVP-7500 Modero ViewPoint Touch Panels* Operation/Reference guide, available on-line at www.amx.com (see *Related Documents*).
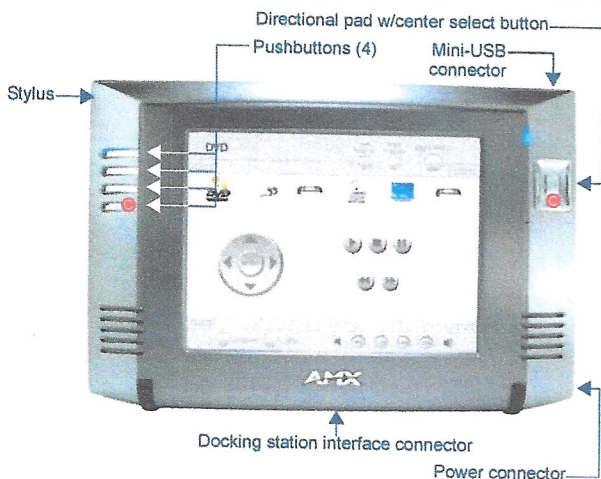

FIG. 1 MVP-7500 Touch Panel components

Specifications

MVP-7500 (FG5965-01) Specifications	
Dimensions (HWD):	• 7.17" x 10.47" x 1.34" (18.20 cm x 26.60 cm x 3.40 cm)
Power Requirement (without charging):	Panel with batteries fully charged or with no batteries: • Constant current draw: 1.0 A @ 12 VDC • Startup current draw: 1.5 A @ 12 VDC • If panel is mounted onto a TDS or WDS, add 0.1 A to the above figures.
Power Requirement (while charging):	Panel while charging batteries: • Constant current draw: 3.0 A @ 12 VDC • Startup current draw: 3.6 A @ 12 VDC • If panel is mounted onto a TDS or WDS, add 0.1 A to the above figures.
Minimum power supply required:	PS4.4 Power Supply (**FG423-45**) - All MVP models are shipped with this power supply.
Power Modes:	• ON: Panel is fully functional. • STANDBY: Panel uses low power, the LCD/backlight is shutdown. LEDs still function. *Panel resumes the ON mode in ~ 1 second.* • OFF: On-board programs not running, touch screen still powered, LED not functional. *Panel resumes the ON mode in ~ 30 seconds.*
Certifications:	• FCC Part 15 Class B and CE
Battery Duration:	• Four hours of normal use (25% On state, 25% Standby, and 50% Off). • Two hours of continuous use (continuous On state).
Memory:	• 64 MB SDRAM • 64 MB Compact Flash (upgradable to 1 GB) - factory programmed
Weight:	• Panel (no batteries): 1.85 lbs (0.84 kg) • Panel with one battery: 2.25 lbs (1.02 kg) • Panel with two batteries: 2.65 lbs (1.20 kg)

MVP-7500 Specifications (Cont.)	
Screen Properties:	• Screen resolution: 640 x 480 pixels (HV) @ 60 Hz frame frequency • Aspect ratio: 4 x 3 • Brightness (luminance): 120 cd/m2 • Channel transparency: 8-bit Alpha blending • Contrast ratio: 20:1 • Display colors: 4096 colors (12-bit color depth) • Dot/pixel pitch: 0.23 mm • Panel type: TFT Color Passive-Matrix
Viewing Angle:	• Vertical: + 17° (up from center) and - 17° (down from center)
Operating/Storage Environments:	• Operating Temperature: 0° C (32° F) to 40° C (104° F) • Operating Humidity: 20% - 85% RH • Storage Temperature: -20° C (-4° F) to 60° C (140° F) • Storage Humidity: 5% - 85% RH
Included Accessories:	• Wireless Interface Compact Flash card (CF Type 1) • PS4.4 Power Supply (FG423-44) • Stylus (pre-installed onto the left side of the unit) • MVP-BP Power Pack (FG5965-20)

Other AMX Equipment:	• CB-MVPWDS Conduit Box (FG037-10)
	• CC-USB Type A to mini-B programming cable (FG10-5965)
	• MVP-BP battery (FG5965-20)
	• MVP-KS Kickstand (FG5965-12)
	• MVP-STYLUS three pack (FG5965-30)
	• MVP-TDS Table Top Docking Station (FG5965-10)
	• MVP-WDS Wall Docking Station - *Black* (FG5965-11)
	• MVP-WDS Wall Docking Station - *Silver* (FG5965-21)
	• MVP-WDS-SK Silver Conversion Kit (FG5965-22)
	• Upgrade Compact Flash (pre-programmed with firmware):
	  NXA-84CF128M 128 MB compact flash card (FG2116-50)
	  NXA-84CF256M 256 MB compact flash card (FG2116-51)
	  NXA-84CF512M 512 MB compact flash card (FG2116-52)
	  NXA-84CF1GB 1 GB compact flash card (FG2116-53)

Connections and Wiring

The **PS4.4** Power Supply (with barrel connector) provides power to the MVP-7500 either *directly* (via the power connector located on the lower right-side of the panel) or *indirectly* (by routing incoming power through the Docking Station's MVP Interface Connector).

• Once the MVP is connected to a docking station; charging priority is first given to any MVP-BP battery packs found within the MVP-7500 and then to any other batteries inserted into the docking station's battery charging compartments.

Warning: *Although firmware upgrades can be done over wireless Ethernet; it is strongly recommended that firmware KIT files be transferred over a direct USB connection and only when the panel is connected to a power supply. If battery power or wireless connection fails during a firmware upgrade, the panel flash file system may become corrupted.*

Setup Pages

The panel is equipped with setup pages that allow you to set and configure various features on the panel. Consult the *MVP-7500 Modero ViewPoint Touch Panels* operation/reference guide for detailed information on the *Setup* pages.

Accessing The Protected Setup Page

1. Press down and hold both the bottom, left pushbutton and down on the directional pad (indicated in FIG. 1) simultaneously for 3-5 seconds. This opens the *Setup* page.
2. Press **Protected Setup** button on the Setup page. This opens a keypad for password entry.
3. Enter the panel password into the keypad (default is *1988*) and select **Done** to access the *Protected Setup* page.

Setting the Panel's Device Number

In the *Protected Setup* page:

1. Press the *Device Number* field to open the Device Number keypad.
   Enter a unique Device Number assignment for the panel, and press **Done** to return to the *Protected Setup* page.
2. Press **Reboot** to reboot the panel, and apply the new Device Number.

Configuring the Panel's Wireless IP Settings

The first step is to configure the wireless communication parameters, this only configures the card to communicate to a target WAP, it is still necessary to tell the panel which Master it should be communicating with; see *Master Connection*.

Consult the *MVP-7500 Modero ViewPoint Touch Panels* operation/reference guide for setting the wireless communication using a static IP address.

Wireless Communication Using a DHCP Address

In the *Protected Setup* page:

1. Select **Wireless Settings**. Wireless communication is set within the IP Settings section of this page.
2. Toggle the *DHCP/Static* field (from the IP Settings section) until the choice cycles to *DHCP*. This action causes all fields in the IP Settings section (other than Host Name) to be greyed-out.

Do not alter any of these remaining greyed-out fields in the IP Settings section. Once the panel is rebooted, these values are obtained by the unit and displayed in the *DNS* fields after power-up.

Consult the *MVP-7500 Modero ViewPoint Touch Panels* operation/reference guide for setting a Host Name.

Configuring the Card's Wireless Settings

This section configures both the communication and security parameters from the internal wireless card to the WAP.

Once you have set up the wireless card parameters, you must configure the communication parameters for the target Master; see *Master Connection*.

Consult the *MVP-7500 Modero ViewPoint Touch Panels* operation/reference guide for configuring the wireless card for unsecured access to the WAP.

Configuring the Wireless Card for Secured Access to the WAP

In the *Protected Setup* page:

1. Select **Wireless Settings**.
2. Enter the SSID information automatically by pressing the **Site Survey** button.
3. Select a **WEP** secured WAP from within the Site Survey page, and press the **Connect** button.
4. Write down the SSID name, Current Key string value, and panel MAC Address information so you can later enter it into the appropriate WAP dialog fields in order to "sync-up" the secure connection. These values must be identically reproduced on the target WAP.

Consult the *MVP-7500 Modero ViewPoint Touch Panels* operation/reference guide for manually entering the SSID information.

Master Connection

The panel requires you establish the type of connection you want made between it and your master. In the *Protected Setup* page:

1. Select *System Settings*
2. Select *Type* to toggle between *USB* and *Ethernet*.
3. When using *Ethernet*, press the listed *Mode* to toggle through the available connection modes:

Connection Modes		
Mode	**Description**	**Procedures**
Auto	The device connects to the first master that responds. This setting requires you set the System Number.	Setting the System Number: 1. Select the System Number to open the keypad. 2. Set your System Number select **Done**.
URL	The device connects to the specific IP of a master via a TCP connection. This setting requires you set the Master's IP.	Setting the Master IP: 1. Select the Master IP number to the keyboard. 2. Set your Master IP and select **Done**.
Listen	The device "listens" for the master to initiate contact. This setting requires you provide the master with the device's IP.	Confirm device IP is on the Master URL list. You can set the Host Name on the device and use it to locate the device on the master. Host Name is particularly useful in the DHCP scenario where the IP address can change.

4. Select the *Master Port Number* to open the keypad and change this value. The default setting for the port is *1319*.
5. Set your Master Port and select **Done**.

If you have enabled password security on your master you need to set the username and password within the device.

6. Select the blank field *Username* to open the keyboard.
7. Set your Username and select **Done**.
8. Select the blank field *Password* to open the keyboard.
9. Set your Password and select **Done**.
10. Press the **Back** button to return to the *Protected Setup* page.
11. Press the **Reboot** button to reboot device and confirm changes.

Touch Panel Calibration

In the *Protected Setup* page, follow these steps:

1. Select **Calibrate**.
2. Touch each target on the screen as they appear. Once calibrated the panel confirms and instructs you to touch the screen to continue.

Related Documents

The following documents provide more detailed installation and configuration instructions for the MVP-7500 and related accessories:

- *MVP-7500 Modero ViewPoint Touch Panels* Operation/Reference Guide
- *MVP-TDS Table Docking Station* Operation/Reference Guide
- *MVP-WDS Wall Docking Station* Operation/Reference Guide
- *MVP-KS KickStand* Operation/Reference Guide
- *NXA-WC80211GCF Wireless Compact Flash Card* Installation Guide
- *VisualArchitect* Operation/Reference Guide
- *G4 PanelBuilder* Operation/Reference Guide
- *TPDesign4 Touch Panel Design Program* Operation/Reference Guide

Caution: There are particular operations, such as upgrading the NXA-CFSP compact flash card and replacing/installing the NXA-WC80211GCF Wireless Compact Flash Card, that require opening the MVP's outer housing to access internal components (as described in the MVP-7500 Modero ViewPoint Touch Panels Operation/Reference Guide).

When opening the MVP panel housing to access internal components, be careful not to damage or disconnect the wireless compact flash card antenna, which is mounted to the inside of the rear housing.

7.5" modero® viewpoint touch panel

MVP PERFORMANCE

AMX proudly expands its highly successful Modero family of Touch Panels: With the 7.5" Modero ViewPoint Touch Panel (MVP-7500). This 802.11b-based wireless handheld panel, which includes a number of features and useful accessories, is just the right size for convenient, comfortable one-touch control in any integrated environment.

WIRELESS CONVENIENCE

Experience high-end control capabilities without the wires. A fully compatible standard 802.11 Wi-Fi Card provides additional control features and eliminates the inconvenience of installing and using cables. Both 38KHz and 455KHz 1-way IR are also built in. The MVP-7500 provides dealers a clean, seamless, unobtrusive touch panel solution. For end users, the ability to take control from anywhere, at any time.

G4 COMPUTER CONTROL™

The AMX exclusive Computer Control delivers remote access and control of any networked computer directly to the MVP-7500. Launch digital music on your MP3 player. Cruise the Internet. Check and respond to email. Open software files and launch applications. Anything that can be done on the PC can now be accomplished through the MVP-7500, all at the simple touch of a button.

AMX

7.5" modero® viewpoint touch panel

MVP-7500 (FG5965-01)

LCD

- 7.5" Color passive-matrix
  (600 x 480 pixel resolution)
- Display colors: 4,096 (12-bit color depth)
- Brightness: 120 cd/m2
- Contrast: 20:1
- Anti-glare Overlay
- Aspect Ratio: 4 x 3

POWER

- Operates with 1 or 2 MVP-BP battery packs (1 included)
- 12-18 VDC Power Supply for recharging batteries

MEMORY

- 64MB SDRAM
- 64MB Compact Flash (upgradeable to 1GB)

DIMENSIONS (HWD)

- 7.17" x 10.47" x 1.34"
  (18.20 cm x 26.60 cm x 3.4 cm)

INTERFACES

- 802.11 Wireless Ethernet,
  2-way network communications
- 38KHz and 455KHz IR
- Mini-USB for programming file transfer
- Docking Station Interconnect
- Power Supply, coaxial barrel connector

FRONT PANEL

- Front Buttons: 9 programmable buttons
- Programmable LEDs: 1 through front panel
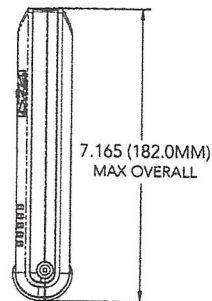 1 through stylus

WEIGHT

- 2.65 lbs- Panel with 2 Batteries (1.20kg)
  Included Accessories:
- (1) MVP-BP (FG5965-20)
- PS4.4 (FG423-44)
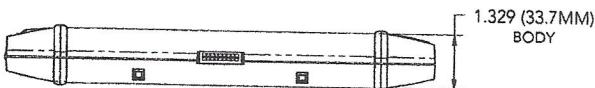- Stylus
- Quick Start Guide

OPTIONAL ACCESSORIES

- MVP-TDS, Table Top/Tilt Docking Station (FG5965-10)
- MVP-WDS, Wall/Flush Mount Docking Station (FG5965-11)
- MVP-KS, Kickstand (FG5965-12)
- MVP-BP, Spare Battery Pack (FG5965-20)
- PS4.4, Power Supply (FG423-44)
- PSN4.4, Power Supply (FG423-45)
- MVP-STYLUS, Pack of 3 Stylus (FG5965-30)
- CB-MVPWDS, Conduit Box for MVP, Wall/Flush Mount Docking Station
- CC-USB, Programming Cable (FG10-5965)
- NXA-75CF128M, 128M Compact Flash (FG2116-55)
- NXA-75CF256M, 256M Compact Flash (FG2116-56)
- NXA-75CF512M, 512 Compact Flash (FG2116-57)
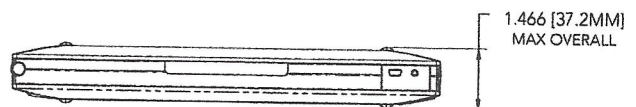- NXA-75CFIG, IG Compact Flash (FG2116-58)
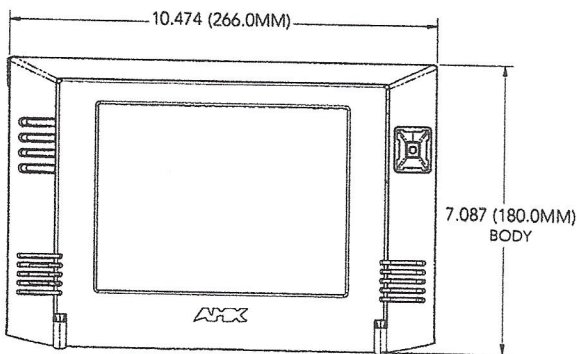
10.474 (266.0MM)

7.087 (180.0MM)
BODY

MVP-7500 (Front View)

7.165 (182.0MM)
MAX OVERALL

MVP-7500 (Right Side)

1.329 (33.7MM)
BODY

MVP-7500 (Bottom View)

1.466 [37.2MM]
MAX OVERALL

MVP-7500 (Top View)

AMX

IT'S YOUR WORLD. TAKE CONTROL.