

VPT-21HD-MIL

FIELD MANUAL



VIEWPOINT SYSTEMS, LLC
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INTRODUCTION

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Thank you for purchasing ViewPoint's 21.5" wide screen tactical display. We strive to deliver the highest quality rugged monitors on the market. All of our products are built using standardized procedures and are thoroughly tested prior to shipment. We are confident that you will be pleased with your purchase and back all of our products with a 2 year comprehensive warranty. If you aren't fully satisfied, for any reason, then please contact one of our customer service representatives at 888-632-1322.

Thank you for your business,

A handwritten signature in black ink, appearing to read "Dave Conkle", with a stylized, flowing script.

Dave Conkle
Owner
ViewPoint Systems

SPECIFICATION & DESIGN FEATURES

SPECIFICATIONS

- Height: 11.95"
- Width: 19.96"
- Depth: 2.44"
- Resolution: 1920 x 1080 (Full HD)
- Brightness: 1000 Nits (Standard Model)
- Contrast Ratio: 5000:1
- Viewing Angle (Left / Right / Up / Down): 89° / 89° / 89° / 89°
- Video Inputs: Refer to Interface Control Drawing (ICD)
- Video Outputs: Refer to Interface Control Drawing (ICD)
- Input Voltage: 28V DC (+/- 25%) or 80V to 264V AC depending on model purchased - Refer to Interface Control Drawing (ICD)
- Max Power Consumption: 40 Watts
- Sunlight Readable

DESIGN FEATURES

- Hi Bright LED Backlights
- Anti-Reflective Glass / Sunlight Readable
- Anodized Aluminum Frame
- High Resolution
- High Contrast Ratio
- Wide Viewing Angle
- Corrosion and Water Resistant Enclosure
- Tactile Buttons
- Illuminated Buttons
- MIL-STD Connectors
- Designed to pass MIL-STD-810G Environmental Testing
- 2 Year Warranty

SAFETY & CLEANING

SAFETY

- The power cable must be connected to a properly wired and grounded power source
- Do not connect or disconnect the display during an electrical storm
- Do not remove the rear cover or rear housing of the display
- Do not disassemble the display
- Always disconnect the display from the power source before cleaning
- Do not operate the display with a damaged cable
- Do not operate the display if it has been damaged
- Do not operate the display at any other voltage besides +28V

CLEANING

- Clean the front glass of the display with a soft, clean cloth, and a diluted vinegar based solution (4 parts water, 1 part vinegar) or with Windex. Let the glass air dry.
- Clean the display enclosure with a mild detergent based solution. Dry with a soft, clean cloth.
- Do not use an abrasive cleaning pads or cleaning solutions on any part of the display.

INSTALLATION

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Install the display using the mounting holes on the rear enclosure.

Cables are normally supplied by the end user. Video input cables should be properly shielded to prevent electromagnetic interference.

Contact Viewpoint for a soft copy of the Interface Control Document (ICD).

The display is designed to operate at either 28V DC or between 80-264 VAC, 47 to 400Hz depending on the model purchased. Refer to the ICD for connector and pinouts of all power and video inputs.

Connect all video input cables and the power cable before turning on the display.

USER CONTROLS

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Power Button: The Power button on the far left side of the keypad is used to power the display on and off. Press the Power button to turn the display on. Press and hold the Power button down for approximately 1 second to turn the display off. Release finger from power button after the display turns off.

CFG Button: Press the CFG button to open the “On Screen Display” (OSD) configuration menu. Once in the Menu, use the PIP and NGT buttons to navigate left and right and the UP and DOWN Arrow buttons to navigate up and down. Press the CFG button to move back / up a level in the menu. Press the CFG button while at the top of the menu to exit the OSD. Note that each Tactical Display is shipped with an optimized configuration. The user should not have to make any additional configuration adjustments in the OSD.

VID Button: Press the VID button to cycle through the video inputs that are connected to the display.

PIP Button: Press the PIP button to activate and cycle the Picture in Picture functionality. Note that PIP must be configured in the software OSD prior to use.

NGT Button: Press the NGT button to dim the display backlights and enter “Night Mode”. The display will be viewable with night vision goggles in this mode if the night vision option was purchased. Press the NGT button again to exit night mode and return to DAY mode.

Up and Down Arrow Buttons: Press the Up and Down Arrow buttons to increase or decrease the brightness of the display. Note that the brightness can be adjusted in either Day or Night mode. The display will remember the last brightness setting in both Day and Night mode even after the display is turned off.

ON SCREEN DISPLAY - PICTURE TAB

Picture Tab



Press the CFG button to enter the OSD. Navigate left and right in the OSD with the PIP / Night mode buttons. Navigate up and down in the OSD with the Up / Down arrow buttons. Press the CFG button to move up a level in the menu. Press the CFG button repeatedly to exit the menu. Use the controls on the Picture tab to make the following display adjustments:

- **Brightness:** Increase or decrease the black level brightness of display. The recommended setting is 50.
- **Contrast:** Increase or decrease the display contrast.
- **Saturation:** Increase or decrease the display saturation.
- **Hue:** Increase or decrease the display hue.
- **Sharpness:** Increase or decrease the display sharpness.
- **Backlight:** Increase or decrease the brightness of the display. Note that this is normally controlled with the Up and Down arrow buttons on the front of the display. The recommended setting is 100.
- **Position:** Shift position of VGA or DVI image on screen.
- **Aspect Size:** Use to scale the aspect ratio of the video on the display:
 - **Fill Screen:** Enable fill screen expansion for lower image resolution.
 - **Fill Aspect Aspect:** Enable fill screen expansion for lower image resolution according to aspect ratio.
 - **4:3** – Scale to 4:3 Aspect Ratio
 - **16:9** – Scale to 16:9 Aspect Ratio
 - **16:10** – Scale to 16:10 Aspect Ratio
 - **2.35:1** – Scale to 2:35:1 Aspect Ratio
 - **2:1** – Scale to 2:1 Aspect Ratio
 - **1 to 1:** Display the exact image resolution of the screen without image expansion.
 - **Custom Sizing:** Overscan, Normal, Custom

ON SCREEN DISPLAY - SOURCE TAB

Main Source Tab



The Main Source tab can be used to select the video input signal to be shown on the display. This is typically done, however, using the VID Button on the front of the monitor.

Press the CFG button to enter the OSD. Navigate left and right in the OSD with the PIP / Night mode buttons. Navigate up and down in the OSD with the Up / Down Arrow buttons. Press the CFG button to move up a level in the menu. Press the CFG button repeatedly to exit the menu. Use the controls on the Source tab to make the following display adjustments:

Main Source: Select the primary video signal. Note that this is normally done using the VID button on the front of the display.

PIP Setup – Use the PIP Setup to configure the display picture-in-picture (PIP) functionality.

- **PIP Port Change** – Select the video source to show in the PIP window.
- **PIP Size** – Select the size of the PIP window including Picture by Picture.
- **PIP Blend Level** - Change PIP Transparency.
- **PIP Position** – Move the location of the PIP window on the screen.
- **PIP Swap** – Swap the main video source and the PIP source on the screen.
- **PIP Auto Off** – When “On” the PIP window will turn off 30 seconds after the loss of the PIP video source.

ON SCREEN DISPLAY - UTILITIES TAB

Utilities Tab



THE UTILITIES TAB IS FOR FACTORY USE ONLY. DO NOT CHANGE ANY OF THE SETTINGS ON THIS TAB WITHOUT THE DIRECTION OF A VIEWPOINT TECHNICIAN. DOING SO MAY VOID THE DISPLAY WARRANTY. ANY UNINTENTIONAL CONFIGURATION CHANGES SHOULD IMMEDIATELY BE RESTORED TO THEIR PREVIOUS VALUE/SETTING.

WARRANTY

WARRANTY

ViewPoint Systems, LLC warrants that the equipment sold hereunder will conform to written specifications, drawings, and other descriptions and modifications thereto by ViewPoint, for a period of twenty four (24) months from the date of shipment. ViewPoint warrants the goods sold hereunder against defective workmanship or materials. ViewPoint will hereunder repair or replace such goods if they are returned within their respective warranty period.

These warranties are made upon the express condition that:

1. ViewPoint is given prompt written notice upon delivery by buyer of such nonconformity, with a detailed explanation of the alleged deficiencies.
2. Such goods are returned to ViewPoint at the expense of the buyer;
3. Examination of such goods by ViewPiont discloses that the nonconformity actually exists and was not caused by accident, misuse, neglect, alteration, improper installation, improper repair or improper testing.
4. The goods have not been altered, modified, or changed in any manner by anyone other than ViewPoint.
5. Repairs to the goods have not been made by anyone other than ViewPoint or at a ViewPoint authorized service facility.

ViewPoint will have a reasonable time to repair or replace such goods. ViewPoint will not, in any event, be liable for incidental or consequential damages. These warranties may be modified in the case of particular goods by warranty certificates enclosed with the goods at the time of packaging.

NO TERMS, CONDITIONS, UNDERSTANDINGS OR AGREEMENTS
PURPORTING TO MODIFY THE TERMS OF THESE WARRANTIES SHALL HAVE ANY LEGAL
EFFECT UNLESS MADE IN WRITING AND SIGNED BY AN
AUTHORIZED OFFICER OF VIEWPOINT SYSTEMS CORPORATION.