

## TACTICAL SERIES

### Rugged Flat Panel Displays



Harsh environments require extreme equipment. So outfit your operators with the toughest flat panel displays on the market. Our displays are designed for use in utility vehicles, helicopters, or armored vehicles. They provide an ideal solution for battlefield management, reconnaissance, driver's vehicle enhancement, or situational awareness.



# ABOUT VIEWPOINT

## ABOUT US

Viewpoint Systems is a veteran owned small business that designs and manufactures rugged displays for the military, defense contracting industry, and airborne law enforcement community. Our MIL-STD-810G, environmentally certified monitors are designed to operate for thousands of hours in the most extreme environments.

We offer a variety of different sized displays as well as custom design services for those customers who can't satisfy their requirements with one of our COTS units.

Our products are designed and assembled in the USA by a team of engineering veterans who have over 20 years of experience in the military display industry.

Visit our website at [www.viewpointproducts.com](http://www.viewpointproducts.com) to learn more about our company and products.

### NAICS:

334113 - Computer Terminal Mfg  
334119 - Computer Peripheral Equipment Mfg  
334310 - Audio and Video Equipment Mfg  
334511 - Search, Detection, Navigation, Guidance, Aeronautical,  
and Nautical System Mfg  
541512 - Computer Systems Design Services

**DUNS:** 969593974

**CAGE:** 6KB72

# OUR TEAM

## David Conkle – Owner

Mr. Conkle has been involved in engineering and manufacturing for over 20 years. David graduated from Sewanee University in 1990 with a degree in physics and started his career by joining the Navy as an officer in the nuclear submarine program. David received nuclear engineering training from 1990 until 1992 and was stationed on the USS Florida SSBN 728 from 1993 until 1995. David left the Navy honorably in 1995 after receiving his Naval Nuclear Engineering certification and went to work for IBM as a quality engineer. David assumed a management position over a team of quality engineers during his third year at IBM. David left IBM in 2000 to obtain a Master in Business Administration and Master in Information Management degree from Arizona State University. After graduate school David went to work for Jabil Circuit, a large contract manufacturer. During his time at Jabil, David designed a global supply chain application for Jabil and managed a \$100 million customer account out of Eastern Europe. David left Jabil Circuit in 2007 and worked for a rugged display manufacturer as the Director of Operations before founding Viewpoint Systems. David is proficient in AutoDesk Inventor and is involved in the CAD design work on all products. He is directly involved in the assembly and testing of each display.

## Eric Prochaska - Project Manager

Prior to joining ViewPoint, Eric was senior consultant for CCXOS Inc. where he provided product development expertise, cost estimating, process analytics, technical writing and proposal preparation services to firms in defense, professional services, electronics, software development/systems integration, manufacturing, information security and health-care information technology. Most recently Eric served as Director of Engineering & Program Management for rugged display manufacturer where he managed product development projects and was a key individual in securing a \$15M project for a next generation avionics display for the USAF.

## Bill Beckur - Lead Mechanical Engineer

Mr. Beckur has 20 years of experience designing application specific flat panel display systems. Bill helped design the "battefield management displays" for the AC-130 gunship and also designed the cockpit instrumentation for the AH-66 Comanche "stealth" helicopter. Bill is proficient in AutoCAD 2009 as well as Autodesk's new 3D solid modeling software, "Inventor".

## Mark Zelinski – Lead Electrical Engineer

Mr. Zelinski is an embedded hardware and software design engineer with over twenty years of experience designing analog and digital RF test equipment and microprocessor-based circuits on new products at various companies. Mark spent six years of his career working for a military display provider designing analog and digital video circuits. Mark is highly experienced with FPGA design using Verilog HDL and PCB layout using Protel. He is also well versed in using OrCad Schematic Capture to interface to Protel/Altium DXP, Xilinx Spartan 6, and ChipScope.

# DESIGNED WITH THE MISSION IN MIND



**Night Vision:** ViewPoint's night vision system is designed to meet MIL-STD-3009, Lighting, Aircraft, Night Vision Imaging System (NVIS) Compatible, Type I, Class B in accordance with Table III, Electronic and electro-optical displays (multicolor) NRb not greater than  $1.1 \times 10^{-8}$  at 0.5fL. The display NVIS modification is a single mode such that the LED illuminating rail or rails are filtered at all times. The display operates over a dynamic range required for sunlight readability to low light NVIS operation.

**Rugged Design:** ViewPoint's display enclosures are extremely durable and made using lightweight aircraft grade aluminum. All metals are anodized or chemfilmed to provide scratch and corrosion resistance. Each circuit board is designed to operate across a wide temperature range and conformal coated to provide extra protection against moisture, dust, chemicals and temperature extremes.

**Multiple Sizes and Options:** Available in sizes from 8" to 17", Viewpoint offers the latest in display technology such as low reflection touchscreens, NVIS capability, high bright LED backlighting systems, LCD heaters, and sunlight readability.

**Backlighting System:** ViewPoint's Tactical Display line features an innovative backlighting system that provides exceptional brightness for sunlight readability and extremely low dimming for night time operations. The display's LED backlighting system extends the lifetime of the display while reducing power usage.

**Operator Controls:** Control of our displays is designed with the operator in mind. Each button is large and illuminated and provides tactile feedback when pressed. The brightness of the display can be easily adjusted using the two arrow keys (UP / DOWN). The most recent brightness setting in both DAY and NIGHT mode is stored in the display memory when power is removed.





# TECHNICAL SPECIFICATIONS

## TACTICAL DISPLAY SERIES - 6" - 10"

CONTINUED ON NEXT PAGE

	VPT-6-MIL	VPT-7HD-STOW	VPT-10-MIL	VPT-10HD-MIL	VPT-10HD-STOW
Panel Size (Diagonal)	6.5"	7"	10.4"	10.6"	10.6"
Resolution (Pixels)	1024 X 768 (XGA)	1920 x 1080 (FULL HD)	1024x768 (XGA)	1280x768 (WXGA)	1280 x 768 (WXGA)
Brightness	1000 Nits	700 Nits	1000 Nits	1000 Nits	1000 Nits
Contrast Ratio	500:1	800:1	1000:1	1000:1	1000:1
Horiz.Viewing Angle	+/- 80°	+/- 85°	+/- 80°	+/- 85°	+/- 85°
Vertical Viewing Angle	+80°/-60°	+/- 85°	+/- 80°	+/- 85°	+/- 85°
Input Options	VGA, RGB, Composite, S-Video, DVI, HDMI, HD-SDI				
Power					
Power Supply	+12V or 18-36V DC or 120V AC				
Power Consumption	<30 Watts - Call for Details				
Environmental*					
Low Operating Temp	-20C° / -40F° MIL-STD-810G				
High Operating Temp	55C° / 131F° MIL-STD-810G				
Low Storage Temp	-40C° / -40F° MIL-STD-810G				
High Storage Temp	+70C° / 158F MIL-STD-810G				
Humidity	Operating & Storage: 95% @ 40C / 140F MIL-STD-810G				
Vibration	5G Sine Vibration MIL E5400T				
	Random Sine All Terrain Vehicles MIL-STD-810G				
	Random Vibration Heavy Tracked Vehicles AECTP400				
Shock	40g 23ms Half Sine MIL-STD-810G				
EMI / EMC	Ground-Army MIL-STD-461F				
Ingress Protection	IP65				
Altitude Operating	Up to 40,000 Feet MIL-STD-810G				
Altitude Storage	Up to 50,000 Feet MIL-STD-810G				
NVIS-B	MIL-STD-3009 Class B				
Sand & Dust, Salt Fog	Compliant per MIL-STD-810G				
Options					
Night Vision	Night Vision Filter for Night Time / NVG Operations				
Touchscreen	Resistive Touchscreen. RS-232 or USB Interface				
Bezel Buttons	Programmable Buttons for Computer Control				
LCD Heaters	LCD Heaters for Extended the Low Temperature Operations				
Picture in Picture	Simultaneous Viewing of Two Video Inputs				
Split Screen	Side by Side Viewing of Two Video Inputs				
Mounting	RAM, Panel, or Custom				
Sealed Enclosure	Sealed Enclosure (IP65 Rating)				

\* Designed to Comply. Test Data Available Upon Request.

# TECHNICAL SPECIFICATIONS

## TACTICAL DISPLAY SERIES - 12" - 15"

CONTINUED ON NEXT PAGE

	VPT-12-MIL	VPT-12HD-MIL	VPT-12HD-STOW	VPT-15-MIL	VPT-15HD-MIL
Panel Size (Diagonal)	12.1"	12" HD	12" HD	15"	15.4"
Resolution (Pixels)	1024 x 768 (XGA)	1280 x 800 (WXGA)	1280 x 800 (WXGA)	1024 x 768 (XGA)	1280 x 800 (FULL HD)
Brightness	1200 Nits	1000 Nits	1000 Nits	1000 Nits	1000 Nits
Contrast Ratio	700:1	1000:1	1000:1	700:1	700:1
Horiz.Viewing Angle	+/- 80°	+/- 88°	+/- 88°	+/- 80°	+/- 80°
Vertical Viewing Angle	+/- 80°	+/- 88°	+/- 88°	+/- 80°	+/- 70°
Input Options					
	VGA, RGB, Composite, S-Video, DVI, HDMI, HD-SDI				
Power					
Power Supply	+12V or 18-36V DC or 120V AC				
Power Consumption	<30 Watts			< 40 Watts	
Environmental*					
Low Operating Temp	-20C°/ -40F° MIL-STD-810G				
High Operating Temp	55C° / 131F° MIL-STD-810G				
Low Storage Temp	-40C° / -40F° MIL-STD-810G				
High Storage Temp	+70C° / 158F MIL-STD-810G				
Humidity	Operating & Storage: 95% @ 40C / 140F MIL-STD-810G				
Vibration	5G Sine Vibration MIL E5400T				
	Random Sine All Terrain Vehicles MIL-STD-810G				
	Random Vibration Heavy Tracked Vehicles AECTP400				
Shock	40g 23ms Half Sine MIL-STD-810G				
EMI / EMC	Ground-Army MIL-STD-461F				
Ingress Protection	IP65				
Altitude Operating	Up to 40,000 Feet MIL-STD-810G				
Altitude Storage	Up to 50,000 Feet MIL-STD-810G				
NVIS-B	MIL-STD-3009 Class B				
Sand & Dusk, Salt Fog	Compliant per MIL-STD-810G				
Options					
Night Vision	Night Vision Filter for Night Time / NVG Operations				
Touchscreen	Resistive Touchscreen. RS-232 or USB Interface				
Bezel Buttons	Programmable Buttons for Computer Control				
LCD Heaters	LCD Heaters for Extended the Low Temperature Operations				
Picture in Picture	Simultaneous Viewing of Two Video Inputs				
Split Screen	Side by Side Viewing of Two Video Inputs				
Mounting	RAM, Panel, or Custom				
Sealed Enclosure	Sealed Enclosure (IP65 Rating)				

\* Designed to Comply, Test Data Available Upon Request.

# TECHNICAL SPECIFICATIONS

## TACTICAL DISPLAY SERIES - 15" - 21"

	VPT-15-QUAD	VPT-17HD-MIL	VPT-17HD-QUAD	VPT-21HD-MIL	VPT-21HD-QUAD
Panel Size (Diagonal)	15.4"	17.3"	17.3"	21.5"	21.5"
Resolution (Pixels)	1280 x 800 (WXGA)	1920 x 1080 (FULL HD)	1920 x 1080 (FULL HD)	1920 x 1080 (FULL HD)	1280 x 800 (FULL HD)
Brightness	1000 Nits	1000 Nits	1000 Nits	1000 Nits	1000 Nits
Contrast Ratio	700:1	600:1	600:1	700:1	700:1
Horiz.Viewing Angle	+/- 80°	+/- 80°	+/- 80°	+/- 80°	+/- 80°
Vertical Viewing Angle	+/- 70°	+80° / -60°	+80° / -60°	+/- 70°	+/- 70°
Input Options	VGA, RGB, Composite, S-Video, DVI, HDMI, HD-SDI				
Power					
Power Supply	+12V or 18-36V DC or 120V AC				
Power Consumption	<50 Watts	< 40 Watts	< 50 Watts	< 45 Watts	<60 Watts
Environmental*					
Low Operating Temp	-20C° / -40F° MIL-STD-810G				
High Operating Temp	55C° / 131F° MIL-STD-810G				
Low Storage Temp	-40C° / -40F° MIL-STD-810G				
High Storage Temp	+70C° / 158F MIL-STD-810G				
Humidity	Operating & Storage: 95% @ 40C / 140F MIL-STD-810G				
Vibration	5G Sine Vibration MIL E5400T				
	Random Sine All Terrain Vehicles MIL-STD-810G				
	Random Vibration Heavy Tracked Vehicles AECTP400				
Shock	40g 23ms Half Sine MIL-STD-810G				
EMI / EMC	Ground-Army MIL-STD-461F				
Ingress Protection	IP65				
Altitude Operating	Up to 40,000 Feet MIL-STD-810G				
Altitude Storage	Up to 50,000 Feet MIL-STD-810G				
NVIS-B	MIL-STD-3009 Class B				
Sand & Dust, Salt Fog	Compliant per MIL-STD-810G				
Options					
Night Vision	Night Vision Filter for Night Time / NVG Operations				
Touchscreen	Resistive Touchscreen. RS-232 or USB Interface				
Bezel Buttons	Programmable Buttons for Computer Control				
LCD Heaters	LCD Heaters for Extended the Low Temperature Operations				
Picture in Picture	Simultaneous Viewing of Two Video Inputs				
Split Screen	Side by Side Viewing of Two Video Inputs				
Mounting	RAM, Panel, or Custom				
Sealed Enclosure	Sealed Enclosure (IP65 Rating)				

\* Designed to Comply, Test Data Available Upon Request.

# RECENT PROJECTS



**Mexican Air Force:** IViewPoint designed a set of custom 21.5" high definition, touchscreen displays for the Mexican AirForce. These displays were mounted in a C26 console and are currently being used for airborne surveillance.



**NAVAIR IFF Console:** ViewPoint won a project with NAVAIR to replace a legacy touchscreen display on a large number of shipboard Identify Friend of Foe (IFF) consoles. ViewPoint successfully integrated the display into the console and passed the MIL-STD test requirements which included the full suite of MIL-STD-461 EMI tests and MIL-S-901D mechanical shock.



# RECENT PROJECTS



**Space Station Project:** ViewPoint was proud to be involved on a NASA project to place new displays on the International Space Station. ViewPoint's displays will be used to facilitate scientific experiments that use the "Micro Gravity Science Glovebox". ViewPoint developed a 12", high definition, WXGA display (VPT-12HD-MIL) with 2 HD-SDI inputs and a custom connector and mounting interface. The display was subjected to a barrage of tests including radiation and EMI and successfully passed.



**Robotics Ground Control Station:** The Harris Corporation chose ViewPoint 12" display (VPT-12-MIL) for use in a portable, robotic, ground control station. Harris chose ViewPoint's display after conducting an extensive evaluation in which displays from multiple vendors were compared to each other in a direct sunlight environment. ViewPoint worked with the Harris team to make custom adjustments to the display so it would suit their needs.



**Law Enforcement:** ViewPoint worked with the Baton Rouge Police Department to place a 12" display in their R44 Raven Helicopter. As part of the project ViewPoint tapped custom holes in the sides of the display to accommodate the existing mount in the helicopter. ViewPoint also provided a custom power connector and +12V input. The pilots are very pleased with the display and have commented several times about how impressed they are with the brightness and sunlight readability of the monitor.

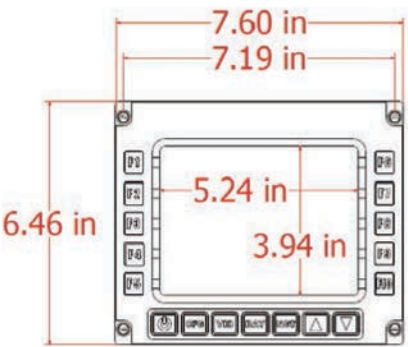
# VPT-6-MIL

## Rugged 6.5" Tactical Display

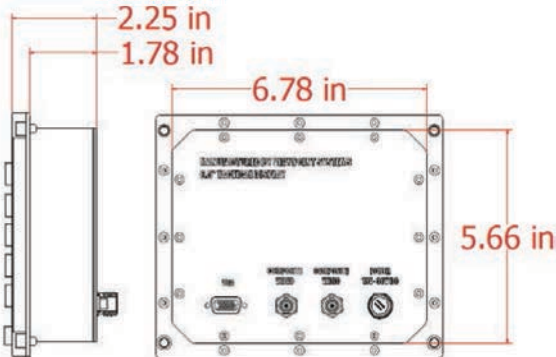
Panel Size (Diagonal)	6.5"
Resolution	1024 X 768 (XGA)
Brightness	1000 Nits
Contrast Ratio	500:1
Horiz.Viewing Angle	+/- 80°
Vertical Viewing Angle	+80°/-60°

### DESIGN FEATURES:

- Machined Aluminum Enclosure
- Protective Cover Glass
- High Bright Backlighting System
- Custom Cooling System
- Illuminated Buttons
- Designed to pass MIL-STD-810G
- 2 Year Warranty



FRONT



SIDE

REAR

- Drawings for reference only
- Video Inputs Options: VGA, DVI, 1 or 2 RS170 Camera Inputs, S-Vid, Component, HDMI
- Available with the following options: Touchscreen, Multi-Function Buttons, NVIS Filters
- Call for Pricing

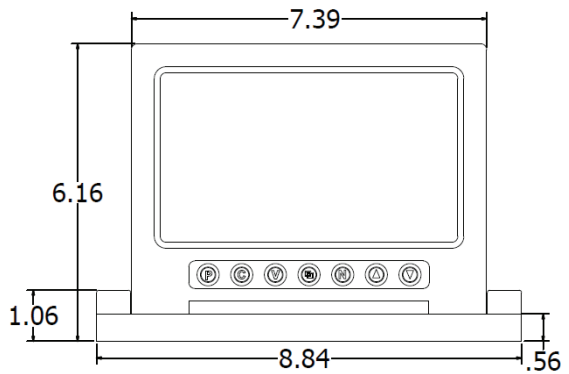
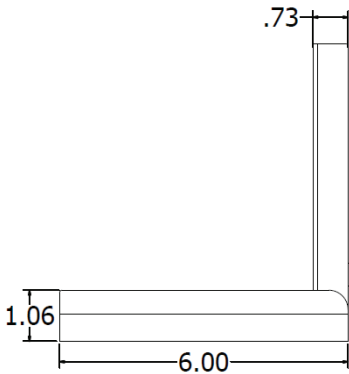
# VPT-7HD-STOW

## Rugged 7" HD Stowable Monitor

Panel Size (Diagonal)	7"
Resolution (Pixels)	1920 X 1080 (FULL HD)
Brightness	700 Nits
Contrast Ratio	800:1
Horiz.Viewing Angle	+/- 85°
Vertical Viewing Angle	+/- 85°

### DESIGN FEATURES:

- Machined Aluminum Enclosure
- Protective Cover Glass
- High Bright Backlighting System
- Custom Cooling System
- Custom Cooling System
- Illuminated Buttons
- Designed to pass MIL-STD-810G
- 2 Year Warranty



- Drawings for reference only - Contact Viewpoint for CAD Models
- Video Inputs: 2HD-SDI, 1 VGA or 1 DVI
- Video Outputs: 2 HD-SDI
- Available with the following options: Touchscreen, NVIS Filters
- Call for Mounting Options
- Call for Pricing

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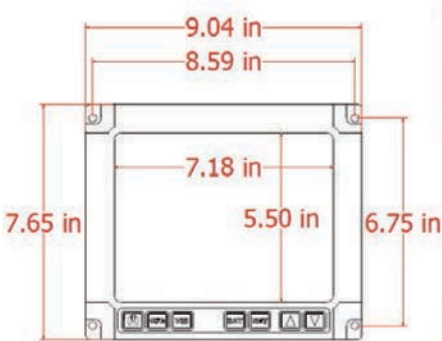
# VPT-8-MIL

## Rugged 8.4" Tactical Display

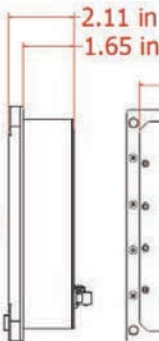
Panel Size (Diagonal)	8.4"
Resolution	800x600 (SVGA)
Brightness	1000 Nits
Contrast Ratio	900:1
Horiz.Viewing Angle	+/- 80°
Vertical Viewing Angle	+/- 80°

### DESIGN FEATURES:

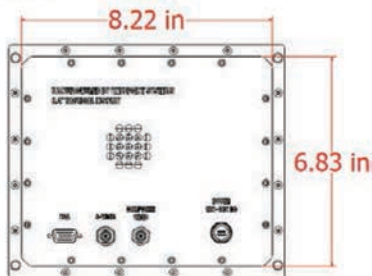
- Machined Aluminum Enclosure
- Protective Cover Glass
- High Bright Backlighting System
- Custom Cooling System
- Illuminated Buttons
- Designed to pass MIL-STD-810G
- 2 Year Warranty



FRONT



SIDE



REAR

-Drawings for reference only

-Video Inputs Options: VGA, DVI, 1 or 2 RS170 Camera Inputs, S-Vid, Component, HDMI

-Available with the following options: Touchscreen, Multi-Function Buttons, NVIS Filters

-Call for Mounting Options

-Call for Pricing

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systems

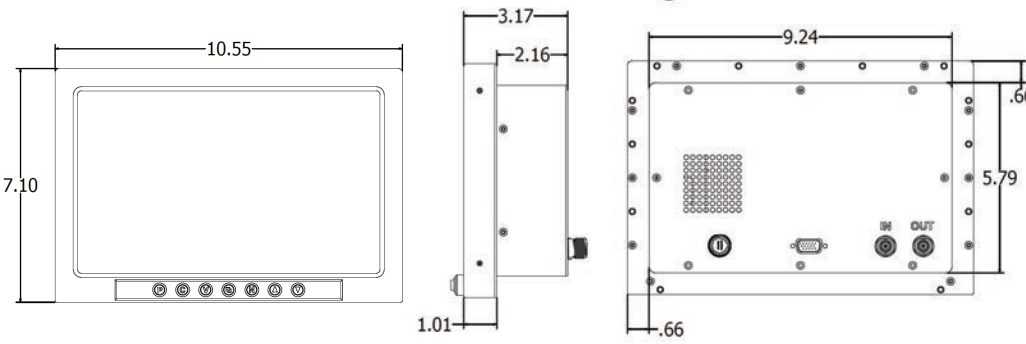
# VPT-10HD-MIL

## Rugged 10" HD Tactical Display

Panel Size (Diagonal)	10" HD
Resolution (Pixels)	1280 x 768 (WXGA)
Brightness	1000 Nits
Contrast Ratio	1000:1
Horiz.Viewing Angle	+/- 85°
Vertical Viewing Angle	+/- 85°

**DESIGN FEATURES:**

- Machined Aluminum Enclosure
- Protective Cover Glass
- High Bright Backlighting System
- Custom Cooling System
- Illuminated Buttons
- Designed to pass MIL-STD-810G
- 2 Year Warranty



FRONT

SIDE

REAR

- Drawings for reference only
- Video Inputs Options: VGA, DVI, RGB, S-Video, Composite, HDMI, HD-SDI
- Available with the following options: Touchscreen, Multi-Function Buttons, NVIS Filters
- Call for Mounting Options
- Call for Pricing

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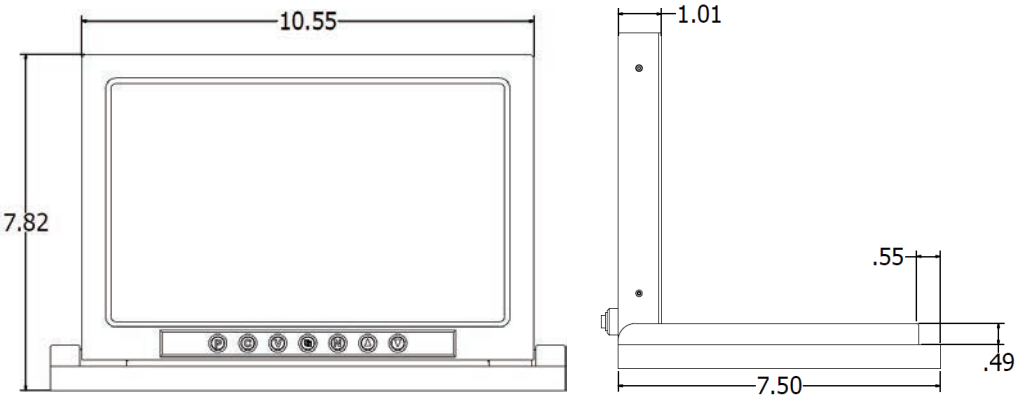
# VPT-10HD-STOW

## Rugged 10" HD Stowable Monitor

Panel Size (Diagonal)	10.6"
Resolution (Pixels)	1280 X 768 (WXGA)
Brightness	1000 Nits
Contrast Ratio	1000:1
Horiz.Viewing Angle	+/- 85°
Vertical Viewing Angle	+/- 85°

**DESIGN FEATURES:**

- Machined Aluminum Enclosure
- Protective Cover Glass
- High Bright Backlighting System
- Custom Cooling System
- Illuminated Buttons
- Designed to pass MIL-STD-810G
- 2 Year Warranty



- Drawings for reference only - Contact Viewpoint for CAD Models
- Video Inputs: 2HD-SDI, 1 VGA or 1 DVI
- Video Outputs: 2 HD-SDI
- Available with the following options: Touchscreen, NVIS Filters
- Call for Pricing

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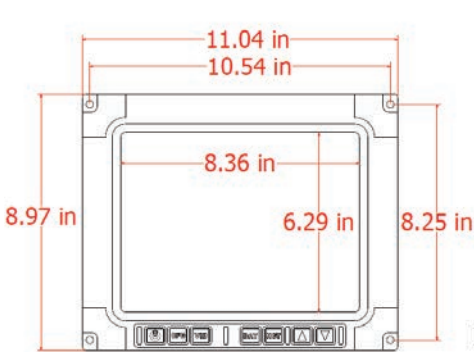
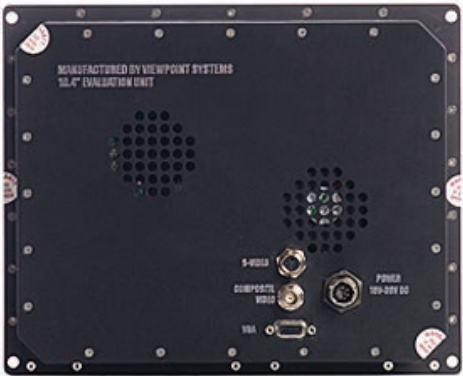
# VPT-10-MIL

## Rugged 10.4" Tactical Display

Panel Size (Diagonal)	10.4"
Resolution	1024x768 (XGA)
Brightness	1000 Nits
Contrast Ratio	1000:1
Horiz.Viewing Angle	+/- 80°
Vertical Viewing Angle	+/- 80°

### DESIGN FEATURES:

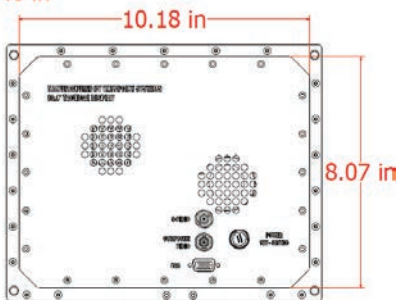
- Machined Aluminum Enclosure
- Protective Cover Glass
- High Bright Backlighting System
- Custom Cooling System
- Illuminated Buttons
- Designed to pass MIL-STD-810G
- 2 Year Warranty



FRONT



SIDE



REAR

- Drawings for reference only
- Video Inputs Options: VGA, DVI, 1 or 2 RS170 Camera Inputs, S-Vid, Component, HDMI
- Available with the following options: Touchscreen, Multi-Function Buttons, NVIS Filters
- Call for Mounting Options
- Call for Pricing

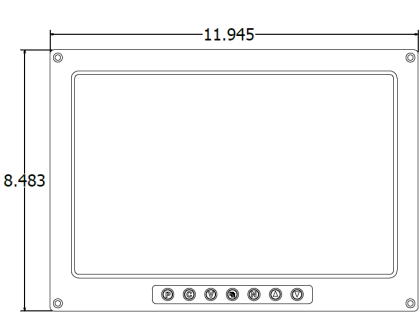
# VPT-12HD-MIL

## Rugged 12" HD Tactical Display

Panel Size (Diagonal)	12" HD
Resolution (Pixels)	1280 x 800 (WXGA)
Brightness	1000 Nits
Contrast Ratio	1000:1
Horiz.Viewing Angle	+/- 88°
Vertical Viewing Angle	+/- 88°

**DESIGN FEATURES:**

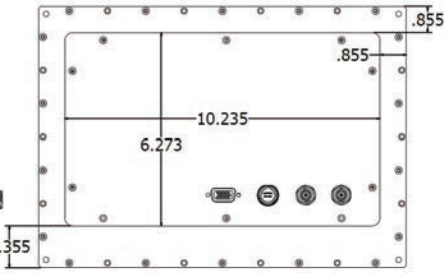
- Machined Aluminum Enclosure
- Protective Cover Glass
- High Bright Backlighting System
- Custom Cooling System
- Illuminated Buttons
- Designed to pass MIL-STD-810G
- 2 Year Warranty



FRONT



SIDE



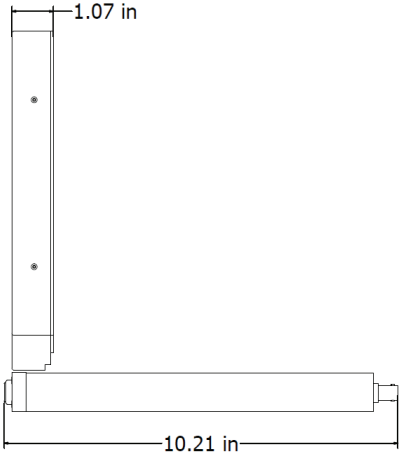
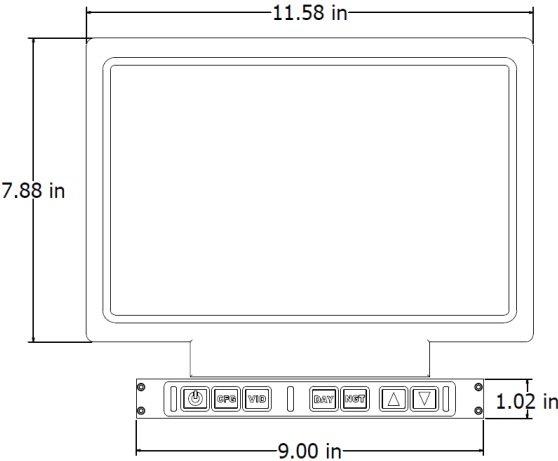
REAR

- Drawings for reference only
- Video Inputs Options: VGA, DVI, RGB, S-Video, Composite, HDMI, HD-SDI
- Available with the following options: Touchscreen, Multi-Function Buttons, NVIS Filters
- Call for Mounting Options
- Call for Pricing

# VPT-12HD-STOW

## Rugged 12" HD Stowable Monitor

Panel Size (Diagonal)	12"
Resolution (Pixels)	1280 X 800 (WXGA)
Brightness	1000 Nits
Contrast Ratio	1000:1
Horiz.Viewing Angle	+/- 88°
Vertical Viewing Angle	+/- 88°



- Drawings for reference only - Contact Viewpoint for CAD Models
- Video Inputs: 2HD-SDI, 1 VGA or 1 DVI
- Video Outputs: 2 HD-SDI
- Available with the following options: Touchscreen, NVIS Filters
- Call for Pricing

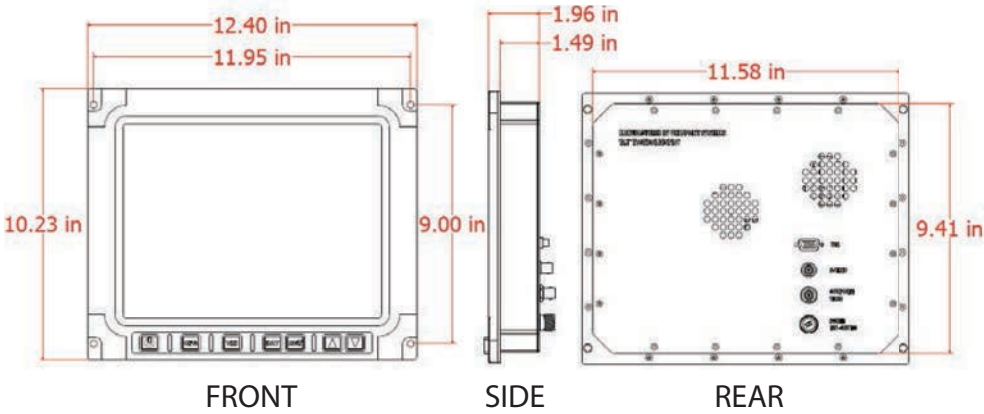
# VPT-12-MIL

## Rugged 12.1" Tactical Display

Panel Size (Diagonal)	12.1"
Resolution	1024x768 (XGA)
Brightness	1000 Nits
Contrast Ratio	700:1
Horiz.Viewing Angle	+/- 80°
Vertical Viewing Angle	+/- 80°

**DESIGN FEATURES:**

- Machined Aluminum Enclosure
- Protective Cover Glass
- High Bright Backlighting System
- Custom Cooling System
- Illuminated Buttons
- Designed to pass MIL-STD-810G
- 2 Year Warranty



- Drawings for reference only
- Video Inputs Options: VGA, DVI, 1 or 2 RS170 Camera Inputs, S-Vid, Component, HDMI
- Available with the following options: Touchscreen, Multi-Function Buttons, NVIS Filters
- Call for Mounting Options
- Call for Pricing

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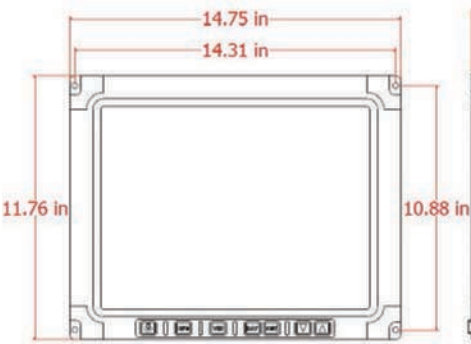
VPT-15-MIL

Rugged 15" Tactical Display

Panel Size (Diagonal)	15"
Resolution	1024x768 (XGA)
Brightness	1000 Nits
Contrast Ratio	700:1
Horiz.Viewing Angle	+/- 80°
Vertical Viewing Angle	+/- 80°

DESIGN FEATURES:

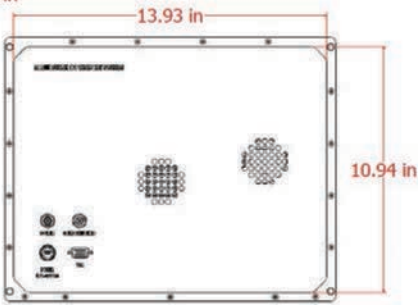
- Machined Aluminum Enclosure
- Protective Cover Glass
- High Bright Backlighting System
- Custom Cooling System
- Illuminated Buttons
- Designed to pass MIL-STD-810G
- 2 Year Warranty



FRONT



SIDE



REAR

- Drawings for reference only
- Video Inputs Options: VGA, DVI, 1 or 2 RS170 Camera Inputs, S-Vid, Component, HDMI
- Available with the following options: Touchscreen, Multi-Function Buttons, NVIS Filters
- Call for Mounting Options
- Call for Pricing

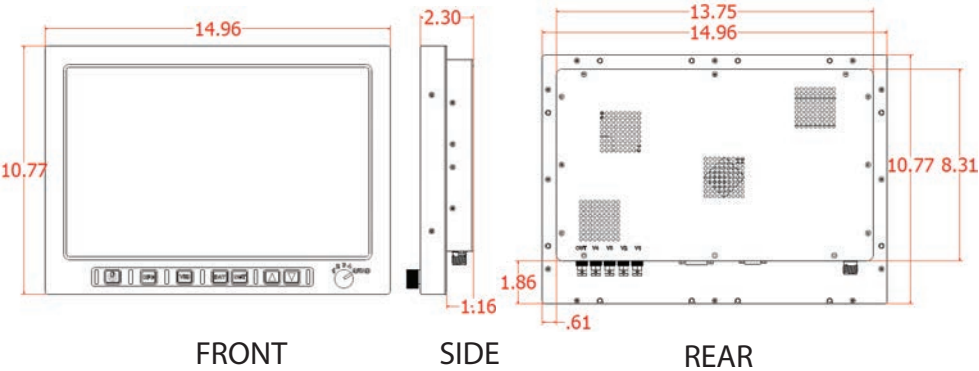
# VPT-15HD-MIL

## Rugged 15" HD Tactical Display

Panel Size (Diagonal)	15" HD
Resolution (Pixels)	1280 X 800 (WXGA)
Brightness	1000 Nits
Contrast Ratio	700:1
Horiz.Viewing Angle	+/- 80°
Vertical Viewing Angle	+/- 70°

**DESIGN FEATURES:**

- Machined Aluminum Enclosure
- Protective Cover Glass
- High Bright Backlighting System
- Custom Cooling System
- Illuminated Buttons
- Designed to pass MIL-STD-810G
- 2 Year Warranty



- Drawings for reference only
- Video Inputs: 2 HD-SDI, 1 DVI and 1 VGA.
- Video Outputs: 2 HD-SDI
- Available with the following options: Touchscreen, Multi-Function Buttons, NVIS Filters
- Call for Mounting Options
- Call for Pricing

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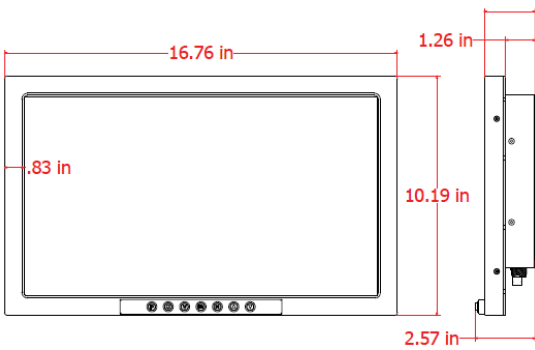
# VPT-17HD-MIL

## Rugged 17" Tactical Display

Panel Size (Diagonal)	17" HD
Resolution (Pixels)	1920 X 1080 (FULL HD)
Brightness	1000 Nits
Contrast Ratio	600:1
Horiz.Viewing Angle	+/- 80°
Vertical Viewing Angle	+ 80/-60°

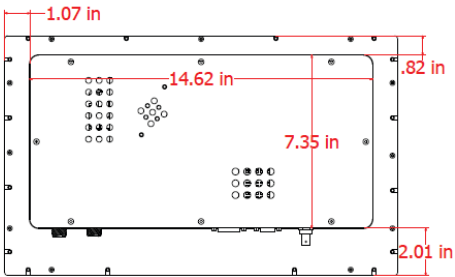
### DESIGN FEATURES:

- Machined Aluminum Enclosure
- Protective Cover Glass
- High Bright Backlighting System
- Custom Cooling System
- Illuminated Buttons
- Designed to pass MIL-STD-810G
- 2 Year Warranty



FRONT

SIDE



REAR

- Drawings for reference only
- Video Inputs: 2 HD-SDI, 1 DVI and 1 VGA.
- Video Outputs: 2 HD-SDI
- Available with the following options: Touchscreen, QUAD, NVIS Filters
- Call for Mounting Options
- Call for Pricing

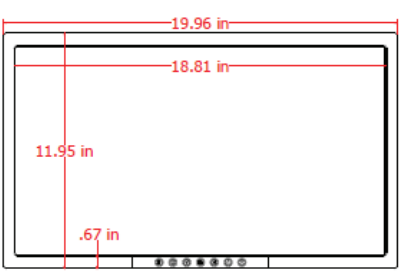
# VPT-21HD-MIL

## Rugged 21" HD Tactical Display

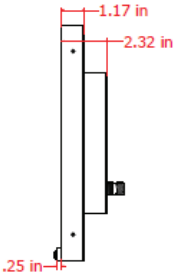
Panel Size (Diagonal)	21.5"
Resolution (Pixels)	1920 X 1080 (FULL HD)
Brightness	1000 Nits
Contrast Ratio	5000:1
Horiz.Viewing Angle	+/- 89°
Vertical Viewing Angle	+/- 89°

**DESIGN FEATURES:**

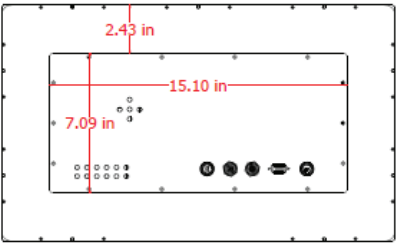
- Machined Aluminum Enclosure
- Protective Cover Glass
- High Bright Backlighting System
- Custom Cooling System
- Illuminated Buttons
- Designed to pass MIL-STD-810G
- 2 Year Warranty



FRONT



SIDE



REAR

- Drawings for reference only
- Video Inputs: 2 HD-SDI, 1 DVI and 1 VGA.
- Video Outputs: 2 HD-SDI
- Available with the following options: Touchscreen, QUAD View, NVIS Filters
- Call Mounting Options
- Call for Pricing

# VPT-XX-QUAD

## Rugged Tactical Display with QUAD View



Viewpoints QUAD display accepts 4 high definition camera inputs (HD-SDI). The operator can display all 4 inputs simultaneously in a “QUAD” grid on the screen or can select and display each input individually. A VGA and DVI input can also be displayed. Available in 15”, 17” and 21” form sizes.

Panel Size (Diagonal)	15.5”	17.3”	21.5”
Resolution (Pixels)	1280 X 800 (WXGA)	1920 X 1080 (FULL HD)	1920 X 1080 (FULL HD)
Brightness	1000 Nits	1000 Nits	1000 Nits
Contrast Ratio	700:1	600:1	5000:1
Horiz.Viewing Angle	+/- 80°	+/- 80°	+/- 89°
Vertical Viewing Angle	+/- 70°	+80°/-60°	+/- 89°

- Contact Viewpoint for CAD Models and Drawings
- Video Inputs: 4 HD-SDI, 1 VGA, 1 DVI
- Available with the following options: Touchscreen, NVIS Filters
- Call for Mounting Options
- Call for Pricing



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