



Our Vision is Your Vision

2025 MILITARY CATALOG



NIST
800-171 COMPLIANT

ISO 9001
2015
CERTIFIED

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Our Vision is Your Vision

ABOUT SEATRONX

Seatronx is a *ISO 9001:2015 certified* and *AS9100/9120 certified* U.S. manufacturer and distributor of rugged electronics catering to Military, Maritime, Ground mobile, Aviation and Extreme condition markets. Our focus is on superior rugged design with unprecedented quality and performance for the toughest environments using proven and tested technology. Services include manufacturing and distribution of commercial off the shelf and customized displays, panel PC's, computers, CCTV camera systems, data storage, video noise filtration, trackballs and keyboards. Our project specialty is modernizing legacy video and storage systems to current standards, saving our customers considerable time and money.

At Seatronx we make your ideas a reality and we are proud to have earned the reputation of consistently delivering unique electronic integration solutions that consistently meet or exceed industry standards in your required timeline.

OUR VISION IS YOUR VISION!

It is notably our people that truly make the difference. Our team is made up of dedicated industry professionals with decades of experience and successes that individually and collectively provide innovative solutions for all size contracts. This is what has defined us and has paved the path to our motto, **Our Vision is Your Vision!**

We indeed take great pride at forging long term relationships by understanding your specific needs and requirements from concept through completion. We enjoy the varied and customized applications we are presented with, and will work diligently to ensure that you receive a world class solution in the time frame required.

COMPLIANCE CERTIFICATIONS

MIL-STD 810G, MIL-STD-810F, MIL-STD 461E/F (CE 101 / CE 102), (RE 101 / RE 102), IEC 60945, IP 54-69, NEMA 6, UL, ECDIS

Military Displays



Military Displays and Custom Monitors for Defense and Navy Applications

OVERVIEW

Seatronx offers an extensive selection of Military Displays and Custom Monitors for Defense and Navy applications. All of our Military displays are built to IEC609945 standards to meet or exceed IMO specifications.

Seatronx works with U.S. defense contractors and Military branches to design, prototype, manufacture and distribute ruggedized military application displays. Seatronx offers complete selections of COTS and custom configurations that meet MIL-STD's for ground mobile, maritime and air traffic control operations in all environmental conditions.

NVIS DISPLAYS

Seatronx offers NVIS, Night Vision Imaging Systems, options for several of our mil-spec series and uses military-grade components to meet or exceed MIL-STD-3009 compliance for these applications. This night vision mode buffers infrared emissions so that it is not detectable with night vision goggles. The Seatronx NVIS displays and monitors offer unmatched clarity and viewing to the unaided eye at night and can be customized to meet specific requirements for sizing, mounting, temperature range, vibration rating, IP rating, dimming/brightening range, and touchscreen requirements. Contact us directly to assist you with your specific NVIS requirements.



ML-20.1R 20.1" MIL Grade Console Display

Design includes MIL-STD-810G, MIL-STD-810F and MIL-STD-461E standards

Features

- High Image Quality
Resolution up to 1600 x 1200 pixels
- Wide View Angle Display for ± 89 degrees
- Anti-Corrosion Housing / Fanless
- Standard AR Glass
- EMI ITO Mesh Filter Glass built-in (optional)
- Flush Rack / Rack Mount Mechanical Design
- Convenient On-Screen Display Controls
- AC Power input/ Isolation Power built-in
- Military Grade Power Connector Model D38999
- Operating Temperature -20°C to 60°C

20.1" Military Display

Specification

Input :

• VGA	: 1 x VGA (15 Pin D-Sub)
• Video	: 5 x BNC (R,G,B,H,V) (Optional)
• DVI	: 1 x DVI-D
• Power Input	: 1 x AC 100~240V, Universal $\pm 10\%$ (w/D38999 Connector)

System Specification

• Brightness	: On screen button brightness control
• Light Sensor	: Auto brightness control
• Plug & Play	: VESA DDC 1/2B
• Remote Control	: Optional
• Glass	: AR glass (vandal proof glass for optional)
• EMI ITO Glass	: Optional, Transmittance 88%
• Touch Screen (Optional)	: Option1: 5-wire resistive touch Option2: 5-wire resistive touch with EMI mesh filter

Environment Compliance:

• Operating Temperature	: -20 deg. C to 60 deg. C MIL-STD 810G Method 501/502, Procedure II
• Storage Temperature	: -40 deg. C to 70 deg. C MIL-STD 810G Method 501/502, Procedure I
• Humidity	: 10 to 95% (Non Condensing)
• Shock	: MIL-STD-810G Method 516.6
• Vibration	: MIL-STD-810G Method 514.6C-3 Procedure I
• Humidity	: MIL-STD-810G Method 507.5-7
• Altitude	: 0 to 15,000ft above sea level Method 500.5 Procedure II
• Sand & Dust	: MIL-STD-810F, Method 510.5 Procedure I
• EMC	: MIL-STD-461E, shown as the table next page



Panel Specification :

• Size/ Type	: 20.1" LED Backlight
• Resolution	: 1600 x 1200 @60Hz
• Brightness	: 300 (typ.)
• Contract Ratio	: 1000 : 1 (typ.)
• Viewing Angle	: -88~88 (H) ; -88~ 88 (V)
• Max. Colors	: 16.7M (8bits/colors)
• Display Area	: 408.0 (H) x 306.0 (V)
• Pixel Pitch	: 0.255 (H) x 0.255 mm (V)
• Synchronization Range	: Horizontal: 31.5~80.0kHz, Vertical: 60~75 Hz

Power Specification:

• Power Consumption	: 60 W (typ. under normal operation)
• Power Management	: VEDA DPMS Compliant
• Power Input	: 1 x AC 100~240V, Universal $\pm 10\%$ (DC 24V $\pm 10\%$ for optional)

MIL Console & Rack Displays

SEA-R Series P-CAP Console Rack

Military Displays

(Resistive Touch optional)



Specifications			
Model Number	SEA-MIL-15PT	SEA-MIL-17PT	SEA-MIL-17RT
Size	15"	17"	17"
Active Display Area	304.1 (H) x 228.1 (V)	337.92 (H) x 270.33 (V)	337.92 (H) x 270.33 (V)
Pixel Pitch	0.297 (H) x 0.297 (V)	0.264 (H) x 0.264 (V)	0.264 (H) x 0.264 (V)
Resolution	1024 x 768	1280 x 1024	1280 x 1024
Contrast Ratio	2500:1	800:1 (typ.)	1000:1 (typ.)
Panel Brightness	500 nits	350 nits	350 nits
Display Color	16.2M	16.7M	16.7M
Viewing Angle	-88~88(H); -88~88(V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)
Glass	EMI ITO Glass (Optional)	EMI ITO Glass (Optional)	EMI ITO Glass (Optional)
Touch	P-Cap Multi-Touch	P-Cap Multi-Touch	Resistive Touch option
Back Panel I/O Port	1 x AC power input (military grade), 1 x USB Touch Interface, 5 x BNCs (R,G,B,H,V), 1 x VGA, 1 x DVI-D	1 x AC power input (military grade), 1 x USB Touch Interface, 5 x BNCs (R,G,B,H,V), 1 x VGA, 1 x DVI-D	
Control Button	Menu / Auto-adjust / Brightness Up and Down / LED Adjustment / Power		
Led indicator	Power On / Off, Sleep	Power On / Off, Sleep	Power On / Off, Sleep
Dimensions	402 x 321 x 70 (mm)	482 x 399.3 x 79.6 (mm)	482 x 399.3 x 79.6 (mm)
Power Input	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)
Power Consumption	21W Typical, normal operation	32W Typical, normal operation	32W Typical, normal operation
Operation Humidity	95%RH ±3%	95%RH ±3%	95%RH ±3%
Shock*	MIL-STD-810F/G Method 516.6 / Procedure I	MIL-STD-810F/G Method 516.6 / Procedure I	MIL-STD-810F/G Method 516.6 / Procedure I
Vibration*	MIL-STD-810F/G Method 514.6 / Procedure I	MIL-STD-810F/G Method 514.6 / Procedure I	MIL-STD-810F/G Method 514.6 / Procedure I
Storage Temperature	-30°C to 70°C	-30°C to 70°C	-30°C to 70°C
IP Rating	Front IP65	Front IP65	Front IP65
Mounting	VESA mounting 100 x 100 mm VESA mounting 200 x 100 mm	Flush Rack / Rack Mount	Flush Rack / Rack Mount
Operating Temperature	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
Certificates	CE, FCC Class B, MIL-STD 810F/G and MIL-STD 461E/F	CE, FCC Class B	CE, FCC Class B
Compliances	MIL-STD 810F/G and MIL-STD 461E/F	MIL-STD 810F/G and MIL-STD 461E/F	MIL-STD 810F/G and MIL-STD 461E/F
Datasheet	VIEW DATASHEET >	VIEW DATASHEET >	VIEW DATASHEET >

SEA-R Series P-CAP Console Rack Military Displays (Resistive Touch optional)



Specifications			
Model Number	SEA-MIL-19PT	SEA-MIL-19RT	SEA-MIL-20RT
Size	19"	19"	20.1"
Active Display Area	376.32 (H) x 301.06 (V)	376.32 (H) x 301.06 (V)	408.0(H) x 306.0(V)
Pixel Pitch	0.294 (H) x 0.294 (V)	0.294 (H) x 0.294 (V)	0.255(H) x 0.255 (V)
Resolution	1280 x 1024	1280 x 1024	1600 x 1200
Contrast Ratio	1000:1 (typ.)	1000:1 (typ.)	800:1 (typ.)
Panel Brightness	350 nits	350 nits	300 cd/m2 Optional up to 400 cd/m2
Display Color	16.7M	16.7M	16.7M
Viewing Angle	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89(V)
Glass	EMI ITO Glass (Optional)	EMI ITO Glass (Optional)	Standard Anti Reflective Glass (default)
Touch	P-Cap Multi-Touch	Resistive Touch option	Resistive Touch or Resistive Touch with EMI Mesh Filter
Back Panel I/O Port	1 x AC power input (military grade), 1 x USB Touch Interface, 5 x BNCs (R,G,B,H,V), 1 x VGA, 1 x DVI-D	1 x AC power input (military grade), 1 x USB Touch Interface, 5 x BNCs (R,G,B,H,V), 1 x VGA, 1 x DVI-D	1 x AC power input (military grade), 1 x RS232 Touch Interface, 5 x BNCs (R,G,B,H,V), 1 x VGA, 1 x DVI
Led indicator	Power On / Off, Sleep	Power On / Off, Sleep	Power On / Off, Sleep
Dimensions	482.6 x 399.3 x 76.9 (mm)	482.6 x 399.3 x 76.9 (mm)	482.6 x 399.4 x 85 (mm)
Power Input	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)
Power Consumption	30W Typical, normal operation	30W Typical, normal operation	90W Typical, normal operation
Operation Humidity	95%RH ±3%	95%RH ±3%	30°C to 60°C, 95 ± 2% RH, Method 507.5
Shock*	MIL-STD-810F/G Method 516.6 / Procedure I	MIL-STD-810F/G Method 516.6 / Procedure I	Method 516.6 / Procedure I
Vibration*	MIL-STD-810F/G Method 514.6 / Procedure I	MIL-STD-810F/G Method 514.6 / Procedure I	5 ~ 500 Hz, 1.48 & 1.90 & 2.24 Grms Method 514.6 / Procedure I
Storage Temperature	-30°C to 70°C	-30°C to 70°C	-10°C to 70°C
IP Rating	Front IP65	Front IP65	Method 506.4 / IPX5 test and IP6X test
Mounting	Flush Rack / Rack Mount	Flush Rack / Rack Mount	Flush Rack / Rack Mount
Operating Temperature	-20°C to 60°C	-20°C to 60°C	-0°C to 60°C
Certificates	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B
Compliances	MIL-STD 810F/G and MIL-STD 461E/F	MIL-STD 810F/G and MIL-STD 461E/F	MIL-STD 810F/G and MIL-STD 461E/F
Datasheet	VIEW DATASHEET >	VIEW DATASHEET >	VIEW DATASHEET >

SEA-W Series P-CAP

Console Rack

Military Displays

(Resistive Touch optional)



Specifications				
Model Number	SEA-MIL-24PT	SEA-MIL-24RT	SEA-MIL-32PT	SEA-MIL-32RT
Size	23.8"	23.8"	32"	32"
Active Display Area	527.04(H) x 290.46(V)	527.04(H) x 290.46(V)	698.4 (H) x 392.85 (V)	698.4 (H) x 392.85 (V)
Pixel Pitch	0.270 (H) x 0.270 (V)	0.270 (H) x 0.270 (V)	0.3637 (H) x 0.3637 (V)	0.3637 (H) x 0.3637 (V)
Resolution	1920x 1080	1920x 1080	1920 x 1080	1920 x 1080
Contrast Ratio	3000:1 (typ.)	3000:1 (typ.)	4000:1 (typ.)	4000:1 (typ.)
Panel Brightness	250 nits	250 nits	400 nits	400 nits
Display Color	16.7M	16.7M	16.7M	16.7M
Viewing Angle	-89~89(H); -89~89(V)	-89~89(H); -89~89(V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Glass	EMI ITO Glass (Optional)	EMI ITO Glass (Optional)	EMI ITO Glass (Optional)	EMI ITO Glass (Optional)
Touch	P-Cap Multi-Touch	Resistive Touch option	P-Cap Multi-Touch	Resistive Touch option
Back Panel I/O Port	1 x AC power input (military grade), 1 x USB Touch Interface, 5 x BNCs (R,G,B,H,V), 1 x VGA, 1 x DVI-D	1 x AC power input (military grade), 1 x USB Touch Interface, 5 x BNCs (R,G,B,H,V), 1 x VGA, 1 x DVI-D	1 x AC power input (military grade), 1 x USB Touch Interface, 5 x BNCs (R,G,B,H,V), 1 x VGA, 1 x DVI-D, 1 x HDMI	1 x AC power input (military grade), 1 x USB Touch Interface, 5 x BNCs (R,G,B,H,V), 1 x VGA, 1 x DVI-D, 1 x HDMI
Control Button	Menu / Auto-adjust / Brightness Up and Down / LED Adjustment / Power			
Led indicator	Power On / Off, Sleep	Power On / Off, Sleep	Power On / Off, Sleep	Power On / Off, Sleep
Dimensions	635.2 x 430.9 x 66 (mm)	635.2 x 430.9 x 66 (mm)	825 x 500 x 87(mm)	825 x 500 x 87(mm)
Power Input	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)
Power Consumption	25W Typical, normal operation	25W Typical, normal operation	50W Typical, normal operation	50W Typical, normal operation
Operation Humidity	95%RH ±3%	95%RH ±3%	95%RH ±3%	95%RH ±3%
Shock*	MIL-STD-810F/G Method 516.6 / Procedure I	MIL-STD-810F/G Method 516.6 / Procedure I	MIL-STD-810F/G Method 516.6 / Procedure I	MIL-STD-810F/G Method 516.6 / Procedure I
Vibration*	MIL-STD-810F/G Method 514.6 / Procedure I	MIL-STD-810F/G Method 514.6 / Procedure I	MIL-STD-810F/G Method 514.6 / Procedure I	MIL-STD-810F/G Method 514.6 / Procedure I
Storage Temperature	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C
IP Rating	Front IP65	Front IP65	Front IP65	Front IP65
Mounting	Flush Rack / Rack Mount	Flush Rack / Rack Mount	Flush Rack / Rack Mount	Flush Rack / Rack Mount
Operating Temperature	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C
Certificates	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B
Compliances	MIL-STD 810F/G and MIL-STD 461E/F	MIL-STD 810F/G and MIL-STD 461E/F	MIL-STD 810F/G and MIL-STD 461E/F	MIL-STD 810F/G and MIL-STD 461E/F
Datasheet	VIEW DATASHEET >	VIEW DATASHEET >	VIEW DATASHEET >	VIEW DATASHEET >

SEA-27MD Series 4K Rugged Displays

FEATURES

- RUGGED ALL ALUMINUM CONSTRUCTION
- INCLUDES REAR VESA PATTERN FOR ADD-ON EQUIPMENT SUCH AS FIBER CHANNEL
- EMI ITO COVER GLASS
- IP67 FRONT FACE DESIGN
- 6061 T6 MILLED ALUMINUM FRONT FACE

OPTIONS

- MULTIPLE LENS ENHANCEMENT AVAILABLE INCLUDING: HEATED GLASS, NVIS BACKLIGHT
- HIGH BRIGHT DAYLIGHT VIEWABLE OPTION
- OPTIONAL CONFORMAL COATING
- OPTIONAL OPTICAL BONDING FOR GRADE A SHOCK

VIDEO INPUTS AVAILABLE*

- | | | |
|--------|-------------|----------------|
| • VGA | • YPbPr | • SDI |
| • DVI | • Composite | • Display Port |
| • HDMI | • S-Video | |

* Not all ports are available on all AD cards. Check I/O for each Video Controller Offered

VIDEO CONTROLLERS

- V38x High End 4K Controller (Production)
Max Resolution: 4096 x 2160 60Hz
Input Options Available: HDMI 2.0 x1, HDMI1.4 x3, Display Port 1.2, RS-232, OSD, For comand and Control, and IR Remote. Integradeted Multi View (PIP, PBP, Quad View).
Optional 3G or 6G SDI Interface can be Integrated
- V36x Mid Grade 4K Controller (New)
Max Resolution: 4096x2160 60Hz
Input Options Available: HDMI 2.0 x2, Display Port 1.2 x1, RS-232 and OSD for Command and Control. IR Remote

AVAILABLE MIL STANDARD BTM OPTIONS

OPERATIONAL TEMPERATURE RANGE: MIL-STD-810F/G, -10C to +50C
(*Method and Procedures TBD)

STORAGE TEMPERATURE: MIL-STD-810F/G, -30C to+60C (*Method and Procedures TBD)

HUMIDITY: MIL-STD-810F/G, (*Method and Procedures TBD)

ALTITUDE: MIL-STD-810F/G, (*Method and Procedures TBD)

VIBRATION: MIL-STD-810F/G, -167, or -516.2 (*Method and Procedures TBD)

SHOCK: MIL-STD-810F/G, -901E Grade B, or -901E Grade A (*Method and Procedures TBD)

EMI: MIL-STD-461F/G CE102, RE101, RE102, CS101, CS114, CS116, RS101, and/ or RS103

MIL-STD, Methods, and Procedures are based on your required needs, contact one of our knowledgeable Sales Engineers to help Spec in a unit to meet your required needs.



LCD MODULES

27MD1 UHD 3840x2160 (Max Res)

- 27" LED BACKLIT LCD
- ITO EMI LENS ENHANCEMENT
- VIEWING ANGLES: 89L/89R/89U/89D
- CONTRAST RATIO: 1000:1
- BRIGHTNESS: 400 NITS
- RESPONSE TIME: 16MS
- SURFACE FINISH: AR/AG COATED LAMINATED FRONT LENS
- COLOR: 1.08B, 10 BIT
- COLOR GAMUT: 93% NTSC

27MD2 UHD 3840x2160 (Max Res)

- 27" LED BACKLIT LCD
- ITO EMI LENS ENHANCEMENT
- VIEWING ANGLES: 89L/89R/89U/89D
- CONTRAST RATIO: 1000:1
- BRIGHTNESS: 1000 NITS HIGH BRIGHT
- RESPONSE TIME: 16MS
- SURFACE FINISH: AR/AG COATED LAMINATED 4MM OPTICALLY BONDED LENS
- COLOR: 1.08B, 10 BIT
- COLOR GAMUT: 93%NTSC

27MD3 UHD 3840x2160 (Max Res)

- 27" LED ENHANCED BACKLIT LCD
- ITO EMI LENS ENHANCEMENT
- DUAL BACKLIGHT NVIS AND DAYLIGHT
- VIEWING ANGLES: 89L/89R/89U/89D
- CONTRAST RATIO: 1000:1
- DAYLIGHT BRIGHTNESS: 400 NITS
- NVIS B MODE
- RESPONSE TIME: 16MS
- SURFACE FINISH: AR/AG OPTICALLY BONDED LENS
- COLOR: 1.08B, 10 BIT
- COLOR GAMUT: TBD NTSC

[VIEW DATASHEET](#) >

SEA-32MD Series 4K Rugged Displays

FEATURES

- RUGGED ALL ALUMINUM CONSTRUCTION
- INCLUDES REAR VESA PATTERN FOR ADD-ON EQUIPMENT SUCH AS FIBER CHANNEL
- EMI ITO COVER GLASS
- IP67 FRONT FACE DESIGN
- 6061 T6 MILLED ALUMINUM FRONT FACE

OPTIONS

- MULTIPLE LENS ENHANCEMENT AVAILABLE INCLUDING: HEATED GLASS, NVIS BACKLIGHT
- HIGH BRIGHT DAYLIGHT VIEWABLE OPTION
- OPTIONAL CONFORMAL COATING
- OPTIONAL OPTICAL BONDING FOR GRADE A SHOCK

VIDEO INPUTS AVAILABLE*

- | | | |
|--------|-------------|----------------|
| • VGA | • YPbPr | • SDI |
| • DVI | • Composite | • Display Port |
| • HDMI | • S-Video | |

* Not all ports are available on all AD cards. Check I/O for each Video Controller Offered

VIDEO CONTROLLERS

- V38x High End 4K Controller (Production)
Max Resolution: 4096 x 2160 60Hz
Input Options Available: HDMI 2.0 x1, HDMI1.4 x3, Display Port 1.2, RS-232, OSD, For comand and Control, and IR Remote. Integradeted Multi View (PIP, PBP, Quad View).
Optional 3G or 6G SDI Interface can be Integrated
- V36x Mid Grade 4K Controller (New)
Max Resolution: 4096x2160 60Hz
Input Options Available: HDMI 2.0 x2, Display Port 1.2 x1, RS-232 and OSD for Command and Control. IR Remote

AVAILABLE MIL STANDARD BTM OPTIONS

OPERATIONAL TEMPERATURE RANGE: MIL-STD-810F/G, -10C to +50C
(*Method and Procedures TBD)

STORAGE TEMPERATURE: MIL-STD-810F/G, -30C to+60C (*Method and Procedures TBD)

HUMIDITY: MIL-STD-810F/G, (*Method and Procedures TBD)

ALTITUDE: MIL-STD-810F/G, (*Method and Procedures TBD)

VIBRATION: MIL-STD-810F/G, -167, or -516.2 (*Method and Procedures TBD)

SHOCK: MIL-STD-810F/G, -901E Grade B, or -901E Grade A (*Method and Procedures TBD)

EMI: MIL-STD-461F/G CE102, RE101, RE102, CS101, CS114, CS116, RS101, and/ or RS103

MIL-STD, Methods, and Procedures are based on your required needs, contact one of our knowledgeable Sales Engineers to help Spec in a unit to meet your required needs.



LCD MODULES

32MD1 UHD 3840x2160 (Max Res)

- 32" LED BACKLIT LCD
- ITO EMI LENS ENHANCEMENT
- VIEWING ANGLES: 89L/89R/89U/89D
- CONTRAST RATIO: 3000:1
- BRIGHTNESS: 400 NITS
- RESPONSE TIME: 15/5MS
- SURFACE FINISH: AR/AG COATED LAMINATED FRONT LENS
- COLOR: 1.08B, 10 BIT
- COLOR GAMUT: 97% NTSC

32MD2 UHD 3840x2160 (Max Res)

- 32" LED BACKLIT LCD
- ITO EMI LENS ENHANCEMENT
- VIEWING ANGLES: 89L/89R/89U/89D
- CONTRAST RATIO: 3000:1
- BRIGHTNESS: 1000 NITS HIGH BRIGHT
- RESPONSE TIME: 15/5MS
- SURFACE FINISH: AR/AG COATED LAMINATED 4MM OPTICAL-LY BONDED LENS
- COLOR: 1.08B, 10 BIT
- COLOR GAMUT: 97%NTSC

32MD3 UHD 3840x2160 (Max Res)

- 32" LED ENHANCED BACKLIT LCD
- ITO EMI LENS ENHANCEMENT
- DUAL BACKLIGHT NVIS AND DAYLIGHT
- VIEWING ANGLES: 89L/89R/89U/89D
- CONTRAST RATIO: 3000:1
- DAYLIGHT BRIGHTNESS: 400 NITS
- NVIS B MODE
- RESPONSE TIME: 15/5MS
- SURFACE FINISH: AR/AG OPTICALLY BONDED LENS
- COLOR: 1.08B, 10 BIT
- COLOR GAMUT: TBD NTSC

[VIEW DATASHEET](#) ➔

SEA-MPTS-40 Series Multi Position Touch Screen

Next generation Multi Position Touch Screen and video processing technology, renders up to four videos, and allocates touch inputs to each source at the same time.

FEATURES

- ALL INPUT AND OUTPUT RESOLUTIONS UP TO 3840 X 2160.
- 4 X SOURCES, ANY SOURCE, ANYWHERE.
- COMPOSITE DISPLAY: CUT, CROP AND STACK SOURCES, WITH TRANSPARENT OVERLAY.
- INSTANT CHANGEOVER BETWEEN SOURCES.
- AUTOMATIC TOUCH SCREEN ALLOCATION TO DISPLAYED SOURCES.
- INDEPENDENT OFF-SCREEN AND ON-SCREEN CONTROLS WITH

PERFECT RENDERING

THE THRUPUT SEA-MPTS GENERATES AN 8 MEGAPIXEL VIDEO STREAM FOR THE NEW GENERATION OF 4K X 2K DISPLAYS WITH HDMI AND DVI COMPATIBLE INPUTS.

ALL INPUTS CAN BE RENDERED AS SINGLE SCREENS, OR PROCESSED TO CREATE COMPOSITE VIDEO PRESENTATIONS.

TOUCH INPUTS ARE AUTOMATICALLY ALLOCATED TO THE DISPLAYED SOURCES. OPTIONAL OPTICAL BONDING FOR GRADE A SHOCK

NEW POSSIBILITIES

THE LARGE SIZE AND HIGH RESOLUTION OF NEW DISPLAYS CREATES NEW POSSIBILITIES FOR INFORMATION DISPLAY.

- VIEW ONE 4K x 2K IMAGE ACROSS THE ENTIRE SCREEN.
- VIEW SEVERAL CHANNELS OF INFORMATION ON ONE SCREEN RATHER THAN ON MANY SEPARATE MONITORS.
- EMBED SCREENS FROM A MIX OF UNIX, LINUX, SOLARIS, WINDOWS OR OTHER SOURCES.

SAFETY

THRUPUT TRUE-PIXEL GRAPHICS PROCESSING

- DIRECTLY MAPS INPUT PIXEL TO LCD PIXEL.
- AVOIDS ANY ZOOM ENGINES OR PIXILATION CHIPSETS.
- ALL DATA CHANNELS ARE ISOLATED AND DATA FROM ONE CHANNEL CANNOT PASS TO ANOTHER.
- DIRECTLY MAPS TOUCH INPUTS TO THE CORRECT DISPLAY SOURCE.

GREEN SOLUTION

THE SEA-MPTS DOES NOT USE ANY HAZARDOUS MATERIALS, AND IS:

- FULLY ROHS COMPLIANT, WITH ULTRA-LOW POWER CONSUMPTION.
- TYPICALLY 15W IN NORMAL OPERATION.



SPECIFICATIONS

RESOLUTION	3840 X 2160
INPUTS	• 4 OFF ALL UP TO 3840 X 2160 @ 60HZ • TOUCH INPUT VIA USB TO EACH DATASOURCE.
OUTPUTS	40" GF VT 20 40 HBT TOUCH SCREEN WITH LED BACKLIGHTING.
FUNCTION	• SET INPUT AND OUTPUT RESOLUTIONS. • SYNCHRONISE ALL RECEIVED DATA • CREATE COMPOSITE OUTPUT OF ANY ORALL INPUTS • CUT, CROP, POSITION AND STACK EACHINPUT. • SET TRANSPARENCY COLOURS FOR EACHINPUT. • ALLOCATE TOUCH INPUTS TO THE DISPLAYED SCREENS.
POWER	SUPPORTS 12 V DC OR UNIVERSAL INPUT VOLTAGE, WORLDWIDE USE. TYPICALLY BELOW 15W (NORMAL OPERATION).
NOISE	0 DB (SILENT OPERATION)
WEIGHT	21 KG
MTBF	127,000 HOURS
COMPLIANCE	CE, FCC AND ROHS.
HMI	• EXTERNAL CONTROL PANEL OR ONSCREEN CONTROL PANEL AND KEYBOARDWITH TRANSPARENCY. • SYNCHRONIZED SWITCHING OF TRACKBALL & KEYBOARD.

SEA-MIL-U Series

Military Monitor Universal Mount: 24", 27", 30", 32"

FEATURES

- RUGGED ALL ALUMINUM CONSTRUCTION
- HIGH BRIGHT DAYLIGHT VIEWABLE
- OPTICAL BONDED COVER GLASS
- IPXX DESIGN OPTIONS
- UNIVERSAL MOUNT DESIGN TECHNOLOGY

OPTIONS

- MULTIPLE LENS ENHANCEMENT AVAILABLE INCLUDING: ITO LENS, HEATED GLASS, PCAP TOUCH, NVIS BACKLIGHT
- OPTIONAL FLEX MOUNT LITS AVAILABLE
- CHOICE OF CONFORMAL COATING TECHNIQUES

VIDEO CONTROLLERS

- V28x High End 4K Controller (Production)
Max Resolution: 4096 x 2160
Input Options Available: HDMI 2.0, HDMI1.4, DVI-I Dual Link or Display Port 1.2, VGA. and RS-232, For command and Control
- V34x High End 4K Controller (Production)
Max Resolution: 4096 x 2160
Input Options Available: HDMI 2.0, HDMI1.4, DVI-I Dual Link or Display Port 1.2. Integrated Ethernet, RS-232, and I2C For command and Control
- V36x Mid Grade 4K Controller (New)
Max Resolution: 4096x2160 60Hz
Input Options Available: HDMI 2.0, Display Port 1.2, RS-232 for Command and Control.

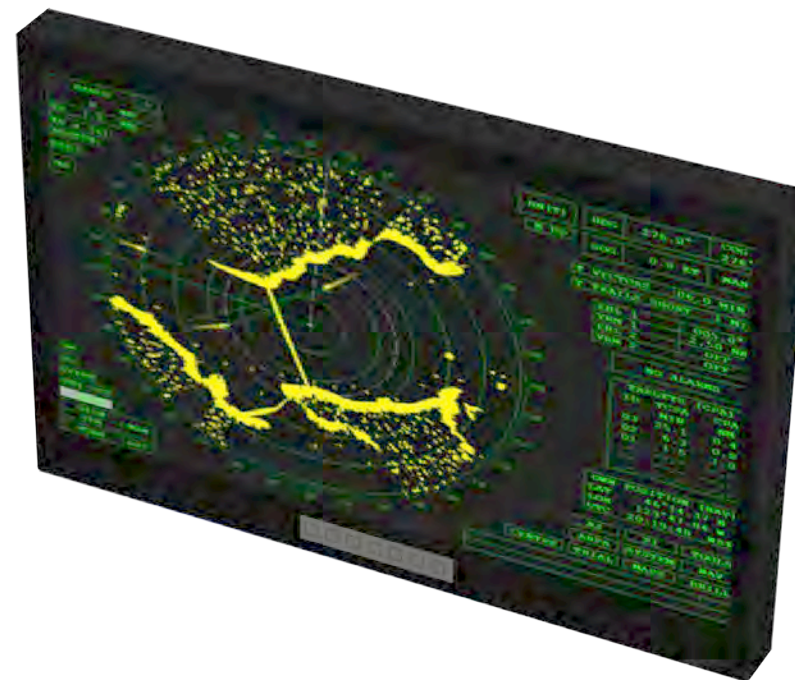
LCD MODULES

24 XGA 3840x2160 (Max Res)

- 23.8" LED BACKLIT LCD
- VIEWING ANGLES: 89/89/89/89
- CONTRAST RATIO: 1000:1
- BRIGHTNESS: 300 NITS (900+ NITS M2/M3)
- RESPONSE TIME: 14MS
- SURFACE FINISH: AR/AG COATED 3MM OPTICALLY BONDED LENS
- OPTICAL BONDING
- ITO EMI LENS ENHANCEMENT
- NVIS NIGHT VISION MODE (M3)

27 WQHD 2560x1440 (Max Res)

- 27" LED BACKLIT LCD
- ITO EMI LENS ENHANCEMENT
- VIEWING ANGLES: 89L/89R/89U/89D
- CONTRAST RATIO: 1000:1
- BRIGHTNESS: 350 NITS (1000+ NITS M2/M3)
- RESPONSE TIME: 8MS
- SURFACE FINISH: AR COATED 3MM OPTICALLY BONDED LENS
- ITO EMI LENS ENHANCEMENT
- NVIS NIGHT VISION MODE (M3)



30 WQXGA 2560x1600 (Max Res)

- 30" LED BACKLIT LCD
- ITO EMI LENS ENHANCEMENT
- VIEWING ANGLES: 89L/89R/89U/89D
- CONTRAST RATIO: 1000:1
- BRIGHTNESS: 350 NITS (1000+ NITS M2/M3)
- RESPONSE TIME: 7MS
- SURFACE FINISH: AR COATED 3MM OPTICALLY BONDED LENS
- ITO EMI LENS ENHANCEMENT
- NVIS NIGHT VISION MODE (M3)

32 UHD 3840x2160 (Max Res)

- 32" LED BACKLIT LCD
- ITO EMI LENS ENHANCEMENT
- VIEWING ANGLES: 89L/89R/89U/89D
- CONTRAST RATIO: 1000:1
- BRIGHTNESS: 350 NITS (1000+ NITS M2/M3)
- RESPONSE TIME: 8MS
- SURFACE FINISH: AR COATED 3MM OPTICALLY BONDED LENS
- ITO EMI LENS ENHANCEMENT
- NVIS NIGHT VISION MODE (M3)

[VIEW DATASHEET](#) >

SEA-MIL-U Series (small)

Military Monitor Universal Mount: 15", 17", 17W", 20"

FEATURES

- RUGGED ALL ALUMINUM CONSTRUCTION
- HIGH BRIGHT DAYLIGHT VIEWABLE
- OPTICAL BONDED COVER GLASS
- IPXX DESIGN OPTIONS
- UNIVERSAL MOUNT DESIGN TECHNOLOGY

OPTIONS

- MULTIPLE LENS ENHANCEMENT AVAILABLE INCLUDING: ITO LENS, HEATED GLASS, PCAP TOUCH, NVIS BACKLIGHT
- OPTIONAL FLEX MOUNT LITS AVAILABLE
- CHOICE OF CONFORMAL COATING TECHNIQUES

VIDEO CONTROLLERS

- V25x Embedded A/D Controller (Production)
Max Resolution: 1920 x 1200
Input Options Available: VGA, HDMI, DVI or DP
- V23xM Full Size Military Grade Controller
Max Resolution: 1920 x 1200
Input Options Available: VGA, DVI, HDMI, YPbPr, 3G SDI
Special Features Include: Dual Digital PIP
- V37xM Controller
Max Resolution: 1920 x 1200
Input Options Available: VGA, HDMI, DVI, Display Port, SDI, CVS, and YPbPr (3 Max for Mil-Spec Connectors)
Military Grade
Conformal Coated
Designed to meet Shock and Vibration Requirements

LCD MODULES**15 XGA1040x768 (Max Res)**

- 15" LED BACKLIT LCD
- VIEWING ANGLES: 70/70/60/60
- CONTRAST RATIO: 700:1
- BRIGHTNESS: 500 NITS (1500+ NITS M2/M3)
- RESPONSE TIME: 16MS
- SURFACE FINISH: AR COATED 3MM OPTICALLY BONDED LENS
- COLOR: 6 BIT PLUS
- OPTICAL BONDING
- TO EMI LENS ENHANCEMENT
- NVIS NIGHT VISION MODE (M3)

17 SXGA 1280x1024 (Max Res)

- 17" LED BACKLIT LCD
- VIEWING ANGLES: 80/80/60/80
- CONTRAST RATIO: 800:1
- BRIGHTNESS: 350 NITS (1000+ NITS M2/M3)
- RESPONSE TIME 15MS
- SURFACE FINISH: 3MM AR COATED OPTICAL BOND LENS
- COLOR: 8 BIT
- TYPE: TN
- OPTICAL BONDING
- TO EMI LENS ENHANCEMENT
- NVIS NIGHT VISION MODE (M3)

**17W FHD 1920x1080 (Max Res)**

- 17.3" WIDE LED BACKLIT LCD
- VIEWING ANGLES: 60L/60R/50U/50D
- CONTRAST RATIO: 500:1
- BRIGHTNESS: 800+ NITS
- RESPONSE TIME: 8MS
- SURFACE FINISH: AR COATED OPTICALLY BONDED LENS
- COLOR: 6 BIT + FRC
- TYPE: TN
- OPTICAL BONDING
- ITO EMI LENS ENHANCEMENT
- NVIS NIGHT VISION MODE (M3)

19 SXGA 1280x1040 (Max Res)

- 19" LED BACKLIT LCD
- VIEWING ANGLES: 85/85/80/80
- CONTRAST RATIO: 1000:1
- HIGH BRIGHT: 700 NITS (1600+ NITS M2/M3)
- RESPONSE TIME 10 MS
- SURFACE FINISH: 3MM AR COATED OPTICAL BOND LENS
- COLOR: 8 BIT
- TYPE: TN
- OPTICAL BONDING
- ITO EMI LENS ENHANCEMENT
- NVIS NIGHT VISION MODE (M3)

20 XGA 1024x768 (Max Res)

- 20.1" LED BACKLIT LCD
- VIEWING ANGLES: 85/85/85/85
- CONTRAST RATIO: 1400:1
- BRIGHTNESS: 260 NITS (900+ NITS M2/M3)
- RESPONSE TIME: 15MS
- SURFACE FINISH: AR COATED 3MM OPTICALLY BONDED LENS
- COLOR: 6 BIT PLUS
- OPTICAL BONDING
- ITO EMI LENS ENHANCEMENT
- VIS NIGHT VISION MODE (M3)

VIEW DATASHEET >

SEA4K Defense Display Series

SEA4K Defense Display Series

4K UHD Rack Mount Protective Glass Defense Display: 15", 24", 27", 32", 40"



Specifications				
Model Number	SEA4K-M156RM-P	SEA4K-M24RM-P	SEA4K-M27RM-P	SEA4K-M27RM
Size	15.6"	23.8"	27"	27"
Active Display Area	344.217 x 193.762 mm	531.36x298.89 mm		
Resolution	3840x2160	3840x2160	3840x2160	3840x2160
Contrast Ratio	1400:1	1000:1	1000:1	1000:1
Panel Brightness	500 nits	310 nits	300 nits	300 nits
Display Color	1073.7M	1.07B	1.07B	1.07B
Viewing Angle	89,89,89,89	89,89,89,89	89,89,89,89	89,89,89,89
Touch / Glass	Projected Cap. Multi Touch Screen PCAP with With ITO Film (Optional)	Projected Cap. Multi Touch Screen PCAP with With ITO Film (Optional)	Projected Cap. Multi Touch Screen PCAP with With ITO Film (Optional)	AR Protection Glass EMI ITO Glass (Optional)
I/O Ports	1 x USB for Touch Screen (Optional) 1 x RS232 for Remote Control (Optional), 1 x VGA, 1 x DVI, 1 x Display Port 1.2, 1 x HDMI 1.4 (Optional), 1 x HDMI 2.0 (Optional), 1 x Audio Line In	1 x USB for Touch Screen (Optional) 1 x RS232 for Remote Control (Optional), 1 x VGA, 1 x DVI, 1 x Display Port 1.2, 1 x HDMI 1.4 (Optional), 1 x HDMI 2.0 (Optional), 1 x Audio Line In	1 x USB for Touch Screen (Optional) 1 x RS232 for Remote Control (Optional), 1 x VGA, 1 x DVI, 1 x Display Port 1.2, 1 x HDMI 1.4 (Optional), 1 x HDMI 2.0 (Optional), 1 x Audio Line In	1 x RS232 for Remote Control (Optional), 1 x VGA, 1 x DVI, 1 x Display Port 1.2, 1 x HDMI 1.4 (Optional), 1 x HDMI 2.0 (Optional), 1 x Audio Line In
Control Buttons	7 Keys: Power, Decrease, Increase, Exit/ Auto, Menu, Day/ Night, Lock/ Unlock			
Dimensions	457.6 x 287.7 x 68.8 mm	675.64 x 417.06.7 x 68.8 mm	697.2 x 442 x 73.8 mm	697.2 x 442 x 73.9 mm
Power Input	AC 100~240V, Universal, ±10% DC 9~36V, ±10% (Optional)	AC 100~240V, Universal, ±10% DC 9~36V, ±10% (Optional)	AC 100~240V, Universal, ±10% DC 9~36V, ±10% (Optional)	AC 100~240V, Universal, ±10% DC 9~36V, ±10% (Optional)
Operation Humidity	10% to 95% RH	10% to 95% RH	10% to 95% RH	10% to 95% RH
MILSTD 461E/F	RE101 / RE102, CE101 / CE 101; with EMI Glass / Touch(Optional) RS101 / RS 103, CS101 / CS 106 / CS 109 / CS 114 / CS 115 / CS, 116			
MILSTD 810F/G	Vibration Method 514.5, Humidity Method 507.4, Transit Drop Method516.5			
Storage Temperature	-25°C to 60°C	-25°C to 60°C	-25°C to 60°C	-25°C to 60°C
Operating Temperature	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C
Mounting	VESA Mount/ Rack Mount	VESA Mount/ Rack Mount	VESA Mount/ Rack Mount	VESA Mount/ Rack Mount
Certification	CE, FCC	CE, FCC	CE, FCC	CE, FCC
Datasheet	VIEW DATASHEET >	VIEW DATASHEET >	VIEW DATASHEET >	VIEW DATASHEET >

SEA4K Defense Display Series

4K UHD Rack Mount Protective Glass Defense Display: 15", 24", 27", 32", 40"



Specifications			
Model Number	SEA4K-M32RM-P	SEA4K-M32RM	SEA4K-M40RM
Size	32"	32"	40"
Active Display Area			
Resolution	3840x2160	3840x2160	3840x2160
Contrast Ratio	1000:1	1000:1	5000:1
Panel Brightness	350 nits	350 nits	350 nits
Display Color	1.07B	1.07B	1.07G (8bit+FRC)
Viewing Angle	89,89,89,89	89,89,89,89	89,89,89,89
Touch / Glass	Projected Cap. Multi Touch Screen PCAP with With ITO Film (Optional)	AR Protection Glass EMI ITO Glass (Optional)	AR Protection Glass EMI ITO Glass (Optional)
I/O Ports	1 x USB for Touch Screen (Optional) 1 x RS232 for Remote Control (Optional), 1 x VGA, 1 x DVI, 1 x Display Port 1.2, 1 x HDMI 1.4 (Optional), 1 x HDMI 2.0 (Optional), 1 x Audio Line In	1 x RS232 for Remote Control (Optional), 1 x VGA, 1 x DVI, 1 x Display Port 1.2, 1 x HDMI 1.4 (Optional), 1 x HDMI 2.0 (Optional), 1 x Audio Line In	1 x RS232 for Remote Control (Optional), 1 x VGA, 1 x DVI, 1 x Display Port 1.2, 1 x HDMI 1.4 (Optional), 1 x HDMI 2.0 (Optional), 1 x Audio Line In
Control Buttons	7 Keys: Power, Decrease, Increase, Exit/ Auto, Menu, Day/ Night, Lock/ Unlock		
Dimensions	825 x 486 x 54 mm	825 x 486 x 54 mm	978.2 x 580.4 x 88.5 mm
Power Input	AC 100~240V, Universal, ±10% DC 9~36V, ±10% (Optional)	AC 100~240V, Universal, ±10% DC 9~36V, ±10% (Optional)	AC 100~240V, Universal, ±10% DC 9~36V, ±10% (Optional)
Operation Humidity	10% to 95% RH	10% to 95% RH	10% to 95% RH
MILSTD 461E/F	RE101 / RE102, CE101 / CE 101; with EMI Glass / Touch(Optional) RS101 / RS 103, CS101 / CS 106 / CS 109 / CS 114 / CS 115 / CS, 116		
MILSTD 810F/G	Vibration Method 514.5, Humidity Method 507.4, Transit Drop Method 516.5		
Storage Temperature	-10°C~60°C	-10°C~60°C	10°C~60°C
Operating Temperature	0°C to 50°C	0°C to 50°C	0°C to 50°C
Mounting	VESA Mount/ Rack Mount	VESA Mount/ Rack Mount	VESA Mount/ Rack Mount
Certification	CE, FCC	CE, FCC	CE, FCC
Datasheet	VIEW DATASHEET >	VIEW DATASHEET >	VIEW DATASHEET >

SEA-M Series

Chassis Mount 4K UHD Military Displays



Specifications		
Model Number	SEA-M270TF-MIL	SEA-M320TF-MIL
Size	27" diagonal	32" diagonal
Active Display Area	23.5"(H) x 13.5"(V) mm	708.48"(H) x 398.52"(V) mm
Pixel Pitch	0.155 (H) x 0.155(V)mm	0.185(H) x 0.185(V) mm
Resolution	3840 x 2160 (UHD 4K)	3840 x 2160 (UHD 4K)
Contrast Ratio	1000:1 (typ)	1000:1 (typ)
Panel Brightness	300 cd/m2 (typ.), optional high brightness up to 700 cd/m2 (typ.)	350 cd/m2 (typ.), optional high brightness up to 700 cd/m2 (typ.)
Display Color	1.07B (max)	1.07B (max)
Viewing Angle	89/89/89/89	89/89/89/89
Synchronization Range	Auto-detect: 31.5 kHz to 60.0 kHz (H) - 30 Hz to 75 Hz (V)	Auto-detect: 31.5 kHz to 60.0 kHz (H) - 30 Hz to 75 Hz (V)
Recommended Resolution	3840 x 2160 @ 60 Hz 4:4:4	3840 x 2160 @ 60 Hz 4:4:4
Aspect Ratio	16:09	16:09
Response Time	12ms (Gray to Gray)	12ms (Gray to Gray)
Detactable Resolutions	Partial List: 640 x 480, 720 x 400, 800 x 600, 1024 x 768, 1280 x 1024, 1600 x 1200, 1920 x 1080, 1920 x 1200, 2560 x 1440, 3840 x 2160, 4096 x 2160	
Back Panel I/O Port	DVI, VGA, HDMI 1.4, Audio Line In, HDMI 2.0, RS232 for Remote Control, Display Port, USB for Optional Touch	
Control Button	Capacitive OSD: Power On/Off, On Screen Display Menu, Brightness Control (-/+)	
Dimensions (W x L x H)	643.17 x 408.06 x 48 mm	777.58 x 477.62 x 48 mm
Net Weight (kg) (with touch)	9.0 Kg	11 Kg
Power Input	24V DC IN with isolation power	
Storage Temperature	-10 deg.C to 60 deg.C, Humidity up to 95%	
IP Rating	Protection: front IP65 - rear IP22	
Mounting	643.17 x 408.06 x 48 mm VESA mounting 100 x 100 mm VESA mounting 200 x 100 mm	VESA mounting 100 x 100 mm VESA mounting 200 x 100 mm VESA mounting 300 x 100 mm
Operating Temperature	0 deg.C to 50 deg.C, Humidity up to 95%	
Certificates	CE,FCC	CE, FCC
Compliances	MIL-STD 810F/G MIL-STD 461E/F (CE 101 / CE 102) , (RE 101 / RE 102)	MIL-STD 810F/G MIL-STD 461E/F (RE 101 / RE 102), (CE 101 / CE 102)
Datasheet	VIEW DATASHEET >	VIEW DATASHEET >

Rack Drawers

Rack Drawer Mount With Displays & Keyboards



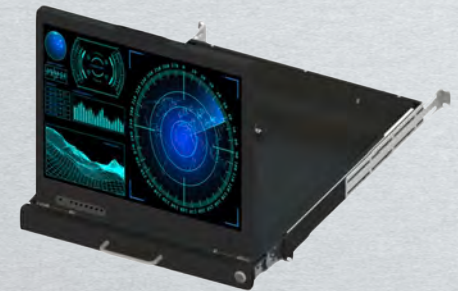
MIL-17-1URD-19



RDD Series



SEA-1URD Series

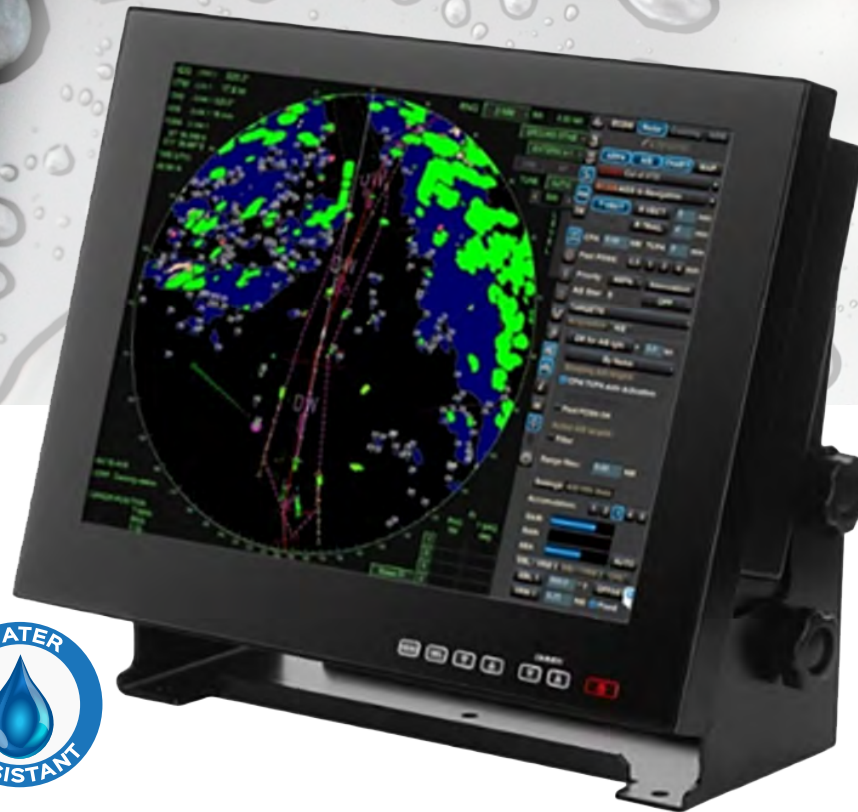


SEA-PDD2

Seatronx Part Number	Description	Datasheet
MIL-17-1URD-19	1U Rack Drawer – 17” Full-HD	VIEW DATASHEET >
RDD Series	The RDD Series is a high performance 1U LCD display drawer sporting a 17” or 19” LCD Monitor. When needed, the monitor slides out and the display portion of the monitor rotates up.	VIEW DATASHEET >
SEA-1URD Series	1U Rack Drawer – LCD Display & Keyboard Clam Shell, LCD, Keyboard, KVM, Rack Drawers	VIEW DATASHEET >
SEA-PDD2-T20	The SEA-PDD2-T20 Series is an high performance 1U LCD display drawer sporting a 17” or 19” LCD Monitor or optional 17.3” wide aspect LCD monitor.	VIEW DATASHEET >

EXTREAM SERIES

100% SEALED IP68 WATER-PROOF
SUNLIGHT READABLE DISPLAYS



eXTreme (XT) Series

100% sealed IP68 water-proof sunlight readable displays

SPECIFICATIONS:

LCD Size (Model Number)	Resolution	cd/m2	View Angle	Contrast Ratio	Power Consumption
8.4”(XT-8)	SVGA (800×600)	1,000 cd/m2	160° (H) x 160° (V)	900:1	18 Watts
10.4”(XT-10)	XGA (1,024×768)	1,000 cd/m2	160° (H) x 130° (V)	700:1	20 Watts
12.1”(XT-12)	XGA (1,024×768)	1,000 cd/m2	160° (H) x 160° (V)	1,200:1	22 Watts
15.0”(XT-15)	XGA (1,024×768)	1,000 cd/m2	160° (H) x 160° (V)	800:1	26 Watts
Technical Specifications					
Display	8-bit, 16.7 Million colors				
Dimming Ratio	1,000:1				
Signal Input	RGB(HD15), DVI, HDMI (Optional: Display portx1)				
Power Input	DC10-38V(DC12V,24V,28V nominal usage)				
Housing	Machined Aluminum alloy, Black powder coated				
Mounting	VESA, Flush, Panel, U- Bracket mount				
DC Power Input	DC10-38V(DC12V,24V,28Vnominal usage) Harsh duty variable power supply				
Power Conditioning	Protected against Internal short circuit, load dump, over voltage, reverse polarity				
Environmental Specifications					
IP Rating	IP68 (NEMA 6 Submersible)				
Operating Temperature	-10°C to 60°C (-14°F to 140°F)				
Storage Temperature	-30°C to 80°C (-40°F to 176°F)				
Humidity	0-100%				
Shock	1.5G RMS				
Vibration	5G				
Altitude	10,000 ft.				
EMI/EMC	Meet to UL, FCC standard level(Not certificated)				
Electronics Circuit	RoHS Compliant				

ORDERING INFORMATION:

Industrial Displays	
Part Number:	Description :
XT-8T	8.4" SVGA (800×600) Sunlight readable display
XT-10T	10.4" XGA (1,024×768) Sunlight readable display
XT-12T	12.1" XGA (1,024×768) Sunlight readable display
XT-15T	15.0" XGA (1,024×768) Sunlight readable display

IND Series - Rugged LED Sunlight Readable Industrial Displays

Displays Designed for Industrial Applications

LED- Sunlight Readable Industrial/Marine LCD Monitors These products feature the latest in LCD technology with 1,500nit LED backlights rated at 100,000 hours life. They feature optically bonded anti -reflective glass, perfect 1000:1 dimming, DVI, VGA, HDMI and Mil Spec. OSD controls.



SPECIFICATIONS:

IND Series	IND-19T	IND-24W
LCD Type	TFT Active Matrix LCD (16.7 Million colors)	TFT Active Matrix LCD (2.07 Million colors)
Display Size	19.0"	24.07"
Resolution	1,280 x 1,024(SXGA)	1,920 x 1,200(WUXGA)
Contrast Ratio	1,000:1	1,000:1
Brightness	LED Backlight Type- 1,500 nit(min.)	LED Backlight Type- 900 nit(min.)
Panel Surface	Anti-Glare Coating with Tempered Glass	Anti-Glare Coating with Tempered Glass
Inputs	DVI, VGA, HDMI(With PIP/POP)	DVI, VGA, HDMI(With PIP/POP)
Mounting Options	VESA / Flush/U-Bracket mounted	VESA / Flush/U-Bracket mounted
View Angle	170(H) 170 (V)	178(H) 1708(V)
Response Time	3m/sec	14m/sec
Light Source	Light Emitting Diodes	Light Emitting Diodes
Input Voltage	10 to 38VDC Power Input, AC/DC brick power supply included	10 to 38VDC Power Input, AC/DC brick power supply included
Power Consumption	34W	60W
Dimensions	17.51"(W)x14.96"(H)x2.23"(D), 445(W)x380(H)x56.8(D)mm	23.4"(W)x16.61"(H)x2.56"(D), 595(W)x422(H)x65(D)mm
Operating Range	-10C ~ 60C	-0C ~ 50C
Cases Color	Black ,Dark Gray	Black ,Dark Gray
IP Rating	Front Side:IP65, Rear Side:IP32	Front Side:IP65, Rear Side:IP32
Warranty	2 yrs	2 yrs
Dimming Range	1000:1 (dimming control to dark to full bright)	1000:1 (dimming control to dark to full bright)
Weight	13.67 LBS(6.2Kg)	22 LBS(10Kg)
Datasheet	VIEW DATASHEET >	VIEW DATASHEET >

ORDERING INFORMATION:

Industrial Displays	
Part Number:	Description :
IND-19T	19.0" 1000 nit TFT LCD with Touchscreen • 1,280 X 1,024 Resolution(SXGA) • 1x each HDMI, DVI, VGA • U Bracket Included • 10 to 38VDC Power Input, AC/DC Brick Power Supply Included
IND-24W	24.07" TFT LCD • 1,920 X 1,200 Resolution(WUXGA) • 10 to 38VDC Power Input, AC/DC Brick Power Supply Included

Rugged Mobile Monitors

MO-R1Q-XX Series

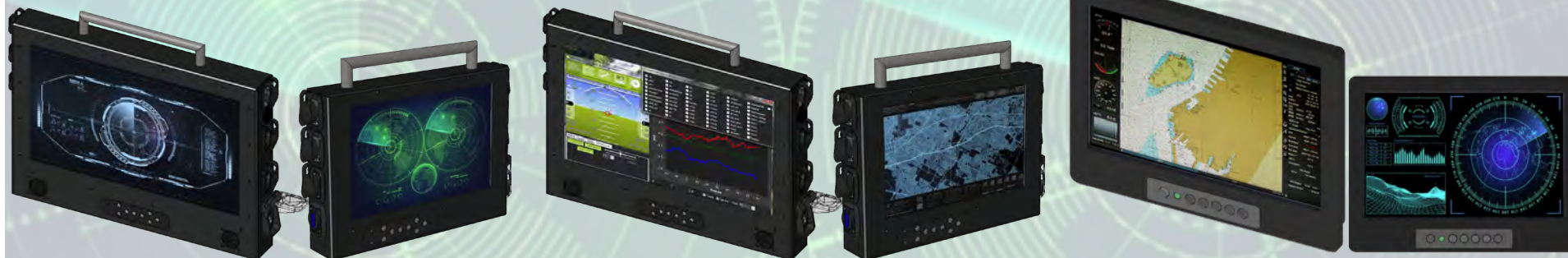
Sizes: 10.1", 12.1", 15.6", 17.3", 21.5"

MO-R1-XX Series

Sizes: 10.1", 12.1", 15.6", 17.3", 21.5"

MO-EX-XX Series

Sizes: 12.1", 17.3"



Seatronx Part Number	Description	Datasheet
MO-R1Q-XX Series	Rugged All Aluminum Construction • Entry V33x Quantum Controller Card • Customizable Modular Design • Kickstand Included • Light Weight • Optional Battery Cradle	VIEW DATASHEET >
MO-R1-XX Series	• Rugged All Aluminum Construction • V23x Elite Controller Card • Field-Replaceable Acrylic Lens • 3g SDI Input/Output • 1/4" Headphone/Phono Jack • Speakers (Only Available On 15.3" and Larger Models)	VIEW DATASHEET >
MO-EX-XX Series	The MO-EX-XX portable display solution adds a new dimension to our ever-expanding rugged monitor line. The MO-EX-XX is professionally sealed and rated IP68, rendering it submersible to a depth of 5 feet. Power and connective cables run through an umbilical line, making it great for short-term, shallow depth submersion and high-splash environments. Some example uses include theme parks, on-set or location filming, and news productions. The MO-EX-XX has been, and continues to be employed in a variety of high-profile settings and environments.	VIEW DATASHEET >

CD Series ECDIS Displays



SPECIFICATIONS:

Marine ECDIS Displays	CD-19T	CD-24T	CD-26T
Diagonal (active area) Inch	19	24	26
Native Resolution (Pixels)	1280 x 1024	1920 x 1080	1920 x 1200
Colors	16.7M	16.7M	16.7M
Contrast Ratio	1200:1	5000:1	1500:1
Brightness	350	350	350
Viewing Angle (left, right)	89, 89	89, 89	89, 89
Viewing Angle (up, down)	89, 89	89, 89	89, 89
Backlight Dimming	-0 (3 Stage ECDIS Option)	-0 (3 Stage ECDIS Option)	-0 (3 Stage ECDIS Option)
Inputs	1 x VGA, 1 x DVD-D, 1 x HDMI 2.0, 1 x HDMI 1.4, 1 x Display Port 1.2	1 x VGA, 1 x DVD-D, 1 x HDMI 2.0, 1 x HDMI 1.4, 1 x Display Port 1.2	1 x VGA, 1 x DVD-D, 1 x HDMI 2.0, 1 x HDMI 1.4, 1 x Display Port 1.2
Remote Control	RS232	RS232	RS232
USB For Touch Screen	YES	YES	YES
Speaker	2x 2W Speaker	2x 2W Speaker	2x 2W Speaker
Buzzer	75 dB~80 dB, 230 Hz, 1m	76 dB~80 dB, 230 Hz, 1m	77 dB~80 dB, 230 Hz, 1m
Power	9-36VDC Isolated power supply 60W (Max)	9-36VDC Isolated power supply 70W (Max)	9-36VDC Isolated power supply 80W (Max)
Power on/off dimming control	Front Bezel	Front Bezel	Front Bezel
Projected Capacitive touch	YES	YES	YES
ECDIS Color Calibration	Optional	Optional	Optional
Mounting	Panel Mount , Vesa Mount	Panel Mount , Vesa Mount	Panel Mount , Vesa Mount
Dimensions	429mm X 392mm X 72.8mm 16.889 X 15.433 X 2.866	595mm X 385mm X 63.8mm 23.43 X 15.16 X 2.51	621mm X 432.4mm X 85.5 24.44 X 17.02 X 3.66
Cutout	408mm X 359mm 16.03 X 14.13	572mm x 363mm 22.51 X 14.29	598mm X 408mm 23.54 X 16.06
IP Rating	IP65 Front	IP65 Front	IP65 Front
IEC60945, DNV, IACS E10, CE,FCC	YES	YES	YES
Operating Temperature	-15 to 55 c	-15 to 55 c	-15 to 55 c
Datasheet	VIEW DATASHEET >	VIEW DATASHEET >	VIEW DATASHEET >

ORDERING INFORMATION:

Commercial Display ECDIS Touch Screen Displays:	
Part Number:	Description :
CD-19T	19" 1280x1024 Commercial touch screen display, 1 each VGA,DVID,HDMI 1.4,HDMI 2.1, Display Port 1.2, 9-36vdc, wide dimming range, three stage ECDIS dimming Night,Dusk,Day
CD-24T	24" 1920x1080 Commercial touch screen display, 1 each VGA,DVID,HDMI 1.4,HDMI 2.1, Display Port 1.2, 9-36vdc, wide dimming range
CD-26T	26" 1920x1200 Commercial touch screen display, 1 each VGA,DVID,HDMI 1.4,HDMI 2.1, Display Port 1.2, 9-36vdc, wide dimming range
ECDIS Option*	ECDIS Color Calibration
*For ECDIS option Add -ECDIS at the end of the above part numbers (sample CD-19T-ECDIS)	

Air Traffic Control Systems

Seatronx is the proud American distributor for Thruput Products offering complete ATC Systems and specializing in upgrading legacy ATC Systems. Products include: Clutter Processing, Console Management, Radar Processing, High Definition Displays and Replacement Displays

Clutter Processing



Clutter processing components are based on real time logic to meet the high integrity required. The methods used for clutter mitigation are clearly definable, fast, efficient, logical and clear-cut supporting a robust safety case.

[VIEW DETAILS](#)

Console Management



Custom power and video switching solutions based on Truepixel Technology. These devices are fully scalable and can enable the switching of power or video channels without any interruption of service or any loss or degradation to the video quality.

[VIEW DETAILS](#)

Radar Processing



Radar data processing components for use in recording and wind farm clutter mitigation solutions, as well as the custom hardware environment for the EUROCONTROL CIMA CT system.

[VIEW DETAILS](#)

ATC Displays



High-resolution displays for use in applications with the following requirements:

Pixel perfect clarity, High reliability, Minimum heat output, Minimum power consumption, Silent operation, Multi touch, touch screens, Optional remote access via Telnet

[VIEW DETAILS](#)

Replacement Displays



The Thruput GFVT03-TS touch screen is a direct Form, Fit & Function replacement for the legacy sonic digitizers and touch screens used with the Sony DDM-2800 series of monitors.

[VIEW DETAILS](#)

Military Panel PCs

12" MIL Panel Mount PPC



15" HMI Panel PC



15" MIL PPC Console System



17" Rack Mount Panel PC



24" Rack Mount Panel PC



7" MIL Touch Panel Computer



MPPC Series



SSPPC Series



Seatronx Series	Description	Details
12" MIL Panel Mount PPC	This MIL PC is build specifically for MIL-STD-810G, MIL-STD-461F Compliance and is used for applications where reliability and durability are paramount. The standard configuration is a high bright sunlight readable unit that is IP66 rated.	VIEW DETAILS >
15" HMI Panel PC	This 15" high bright HMI Panel PC offers a compact, fanless, flat front panel touch screen with built in PC for powerful computer processing and vivid imagery.	VIEW DETAILS >
15" MIL PPC Console System	15" Console mount Panel PC built to MIL-STD-810G vibration shock and temperature standards. Ideal for interior or exterior applications.	VIEW DETAILS >
17" Rack Mount Panel PC	Military Grade 17" Rack Mount Panel PC (Intel® Core i7 Platform)	VIEW DETAILS >
24" Rack Mount Panel PC	Military Grade 24" Rack Mount Panel PC (Intel® Core i7 Platform)	VIEW DETAILS >
7" MIL Touch Panel Computer	Intel® Skylake Core i3 6100U 2.3GHz with DDR3L 1600 SO-DIMM 4GB memory.	VIEW DETAILS >
MPPC Series	Edge-to-Edge LCD Panel PCs.	VIEW DETAILS >
SSPPC Series	Stainless Steel Panel PCs – P-CAP Touch, IP66 Sealed Panel PCs	VIEW DETAILS >

Sunlight Readable Rugged Tablet

RVT-7

Rugged Vehicle 7" Tablet



FEATURES

- 7" Sunlight Readable
- Dust Resistant
- Water Resistant
- Vehicle Mount Included
- Download All Your Favorite Android Apps, Maps & Software
- A Technicians Digital Multi-tool With SAEJ1939 and OBD-II Version
- Ideal For All Outdoor Applications Including, Ground Mobile

RVT-7 Specifications

Mobile Computing Platform	Qualcomm Quad-core processor, 1.1GHz
Operating System	Android 7.1.2
RAM	2 GB
Storage	16 GB eMMC (up to 64G TF card expansion)
LCD	7" HD (1280 x800), sunlight readable 800cd/m2
Touchscreen	10 point multi touch capacitive touchscreen
Camera	front:2 MP Rear: 8 MP rear camera with LED light
Bluetooth	BT4.2 LE
WLAN	IEEE 802.11a/b/g/n; 2.4GHz/5GHz
Mobile Broadband	LTE, HSPA+, UMTS, EDGE, GPRS, GSM (Data and Voice)
GNSS	GPS/GLONASS
NFC	Read/Write Mode: ISO/IEC 14443 A&B up to 848 kbit/s, FeliCa at 212 & 424 kbit/s, MIFARE 1K, 4K NFC Forum type 1, 2, 3, 4, 5 tags, ISO/IEC 15693 All peer-to-peer modes Card Emulation Mode (from host): NFC Forum T4T (ISO/IEC 14443 A&B) at 106 kbit/s
Sound	Build-in speaker 2W x 1 85dB internal microphones x1
Interfaces	RS232 X2; GPIO Input x2; output x2; RS485 x 1 optional; RS422 x 1 optional; USB Type-A; ACC x 1; OBD II; RS232 X1; ACC x 1; J1939
Sensors	Acceleration sensors, ambient light sensor
Power	Battery: User replaceable Li-ion 5000 mAh Battery operating time: 5h(typical) DC 8-36V (ISO 7637-2 Compliant)
Buttons	Power on/off button: x1
Mounting	75mm vesa/ RAM
Dimensions	200W x 130H x 28.5D
Weight	785g
Datasheet	VIEW DATASHEET >

Rugged Vehicle Tablet

Part Number:	Description :
RVT-7	Rugged Vehicle 7" Tablet
	Other sizes available by request

Trackballs & Keyboards

Type Approved and Non Type Approved

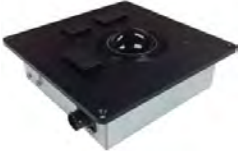


Seatronx is proud to be a distributor for NSI. NSI is the waterproof keyboard & waterproof trackball specialist delivering reliable solutions for demanding industrial, marine, medical, kiosk, food and military applications.

Main trackball features

- Most extended range of trackballs
- ECDIS trackballs
- IEC 60945 trackballs
- Unique IP68 trackball solutions
- Opto-mechanical trackballs, up to IP65 sealing
- Laser-optical trackballs, IP68 sealing
- Panel mount or enclosed standard versions
- Highly robust, vandal-proof and all metal construction
- Halo backlit trackball with PWM dimming & RGB control
- Trackballs with glass panel & touch keys
- Trackballs with scroll wheel to improved ease of use
- Military grade products
- Easy customization

Military Trackballs

TRACKBALLS	
	Description :
	F38 Series Rugged Trackball Module The F38 Series trackball module is a high specification human interface device designed to operate in extremely demanding environments where reliability and robustness are essential. iPad ready.
	F50 Series Trackball Module F50 Series trackball moduleThe F50 Series trackball module is a high specification human interface device designed to operate in extremely demanding environments where reliability and robustness are essential.
	F60 Military Trackball The F60 Series trackball is a high specification military device for use in extremely demanding environments where servicing and robustness are essential.
	Rugged 38 mm MIL Standard Trackball IP65 sealed with modular assembly and 3 integrated push button switches. MIL-STD-461F, DO160F, and MIL-STD-810E (as applicable). CCL patented anti-vibration technology and removable ball retention ring for ease
	Rugged 38 mm MIL-STD trackball module IP65 sealed with modular assembly and 3 integrated push button switches. MIL-STD-461F, DO160F, and MIL-STD-810E (as applicable). CCL patented anti-vibration technology and removable ball retention ring for ease
	Rugged 50 mm Military Trackball Module IP65 sealed with modular assembly and 3 integrated push button switches. MIL-STD-461F, DO160F, and MIL-STD-810E (as applicable). CCL patented anti-vibration technology and removable ball retention ring for ease
	Rugged 50 mm MILSPEC standard trackball IP65 sealed with modular assembly and 3 integrated push button switches. MIL-STD-461F, DO160F, and MIL-STD-810E (as applicable). CCL patented anti-vibration technology and removable ball retention ring for ease

Military Keyboards

TRACKBALLS	
	Description :
	KSML38 Backlit Mumpad Desktop Keyboard This 38 key LED backlit keyboard is built around 38 short travel, tactile feel switches (numeric, function and control keys) and a 38 mm trackball enabling fast and comfortable access to important commands.
	KSME103 Backlit Panel Mount Keyboard with Ergonomic Trackball This 103 key backlit keyboard has a multi-functional layout with separate numerical and control keypads and integrates a waterproof IP68 sealed ergonomical trackball with scroll wheel.
	MKB104 MILSPEC Rugged Keyboard Rugged keyboard designed to meet MIL-STD-461F standards and provide highly reliable input device for various critical applications.

[VIEW DETAILS](#)


Military Computers

Seatronx MIL-SPEC PCs



SEATRONX offers the highest quality MIL-SPEC computers specifically designed to withstand shock and vibration, power fluctuation with wide temperature tolerance.

	SFF BOX						
Avionics	N/A	N/A	N/A	N/A	Avionics	Avionics	Avionics
Aircraft	N/A	N/A	N/A	N/A	Aircraft	Aircraft	Aircraft
Naval	Naval	Naval	Naval	Naval	Naval	Naval	Naval
Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle
ID							
Model	SEAV700X5	SEASR700-X4	SEAV600-THT	SEAV600-TH	SEAV600-THT	SEAV600X-TH	SEAV600X-CH
CPU	W-11865MRE	E-2276ML	W-11865MRE	W-11865MLE	W-11865MRE	W-11865MLE	E-2276ML
GPU	N/A	MXM A1000	MXM A4500	MXM A1000	MXM A4500	MXM A1000	MXM A1000
RAM	DDR4-16GB (up to 64GB)	DDR4-16GB (up to 128GB)	DDR4-16GB (up to 96GB)	DDR4-16GB (up to 96GB)	DDR4-16GB (up to 96GB)	DDR4-16GB (up to 96GB)	DDR4-16GB (up to 128GB)
STORAGE	NVMe 4.0 512GB (MB/sec, Max.) 7,150/5,250 MB	NVMe 3.0 512GB (MB/sec, Max.) 3,400/3,200 MB	Soldered 64GB NVMe	mSATA 512GB	Soldered 64GB NVMe	mSATA 512GB	NVMe 3.0 512GB. (MB/sec, Max.) 3,400/3,200 MB
DC 28V (18V~36V) MIL-461/1275	YES	YES	YES	YES	YES	YES	YES
DC 28V (10V~40V) MIL-461/1275/704	N/A	N/A	N/A	N/A	YES	YES	YES
IP Rating	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Rack-Mount	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MXM-GPU	N/A	YES	YES	YES	YES	YES	YES
PCI-E GPU	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GPU 35W	N/A	YES	YES	YES	YES	YES	YES
GPU 110W	N/A	N/A	YES	N/A	YES	YES	N/A
Xeon 25W	YES	YES	YES	YES	YES	YES	YES
Xeon 45W	N/A	YES	YES	YES	YES	YES	YES
Xeon 65W	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Xeon 100W	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Swappable SSD	N/A	N/A	YES	YES	YES	YES	YES
NVMe-Drive	YES	YES	N/A	N/A	N/A	N/A	YES
AES (H/W) Key	N/A	N/A	N/A	N/A	Options	Options	Options
10GbE (NIC)	N/A	N/A	N/A	N/A	Options	Options	N/A
Swappable CMOS	N/A	N/A	N/A	N/A	Options	Options	Options
MIL-1553	N/A	N/A	N/A	N/A	Options	Options	Options
ARINC 429	N/A	N/A	N/A	N/A	Options	Options	Options
MIL-461	YES	YES	YES	YES	YES	YES	YES
MIL-461/1275	YES	YES	YES	YES	YES	YES	YES
MIL-461/1275/704	N/A	N/A	N/A	N/A	YES	YES	YES
I/O	4xRS232/422/485 +4 BIT DIO (D38999)	mDP(M12)	DVI+2xCOM+USB2.0 (D38999)	4xRS232/422/485 +4 BIT DIO (D38999)	DVI+2xCOM+USB2.0 (D38999)	4xRS232/422/485 +4 BIT DIO (D38999)	4xRS232/422/485 +4 BIT DIO (D38999)
	2xGLAN+3xUSB 2.0 (D38999)	USB(M12)	4xGLAN (D38999)	2xGLAN+3xUSB 2.0 (D38999)	4xGLAN (D38999)	2xGLAN+3xUSB 2.0 (D38999)	2xGLAN+3xUSB 2.0 (D38999)
	DVI(D38999)	COM (M12)	USB3.0(D38999)	DVI(D38999)	USB3.0(D38999)	DVI(D38999)	DVI(D38999)
	DVI(D38999)	GLAN1(M12)	USB3.0(D38999)	DVI(D38999)	USB3.0(D38999)	DVI(D38999)	DVI(D38999)
	DC-IN(D38999)	GLAN2(M12)	DC-IN(D38999)	DC-IN(D38999)	DC-IN(D38999)	DC-IN(D38999)	DC-IN(D38999)
		DC-IN(M12)	2x SWAP SSD TRAY	1x SWAP SSD TRAY	2x SWAP SSD TRAY	1x SWAP SSD TRAY	1x SWAP SSD TRAY

2U	1U Half		2U Half		
N/A	N/A	Avionics		N/A	N/A
N/A	N/A	Aircraft	N/A	N/A	N/A
Naval	Naval	Naval	Naval	Naval	Naval
Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle
					
SEAHORUS430-X1A45	SEATHOR100-X11	SEATHOR100-XD7	SEATHOR200-X11TX	SEATHOR200-X11EHG2	SEATHOR200-D15EG
i7-11850HE	i7-1185G7E	E-2276ML	i7-11850HE	i7-11850HE	D-1577
MXM A4500	N/A	N/A	MXM A2000	MXM A2000	MXM A2000
DDR4-16GB (up to 64GB)	DDR4-16GB (up to 32GB)	DDR4-16GB (up to 128GB)	DDR4-16GB (up to 64GB)	DDR4-16GB (up to 64GB)	DDR4-16GB (up to 128GB)
mSATA 512GB	NVMe 3.0 512GB. (MB/sec, Max.) 3,400/3,200 MB	NVMe 3.0 512GB. (MB/sec, Max.) 3,400/3,200 MB	mSATA 512GB	mSATA 512GB	mSATA 512GB
YES	YES	YES	YES	YES	YES
N/A	YES	YES	N/A	N/A	N/A
IP65	IP65	IP65	IP65	IP65	IP65
YES	YES	YES	YES	YES	YES
YES	N/A	N/A	YES	YES	YES
N/A	N/A	N/A	N/A	N/A	N/A
YES	N/A	N/A	YES	YES	YES
YES	N/A	N/A	N/A	N/A	N/A
YES	N/A	YES	YES	YES	YES
YES	N/A	N/A	YES	YES	YES
N/A	N/A	N/A	N/A	N/A	YES
N/A	N/A	N/A	N/A	N/A	N/A
YES	N/A	N/A	YES	YES	YES
N/A	YES	YES	N/A	N/A	N/A
Options	N/A	N/A	Options	Options	Options
YES	Options	N/A	Options	Options	Options
Options	N/A	N/A	Options	Options	Options
N/A	N/A	Options	N/A	N/A	N/A
N/A	N/A	Options	N/A	N/A	N/A
YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES
YES	N/A	YES	YES	YES	YES
4x USB (D38999)	COM(M12)	DC-IN(D38999)	4xUSB2.0/2xCANbus/VGA(D38999)	4xUSB2.0(D38999)	3xUSB2.0(D38999)
10G LAN1(M12)	mDP(M12)	GLAN1(D38999)	USB3.0(D38999)	USB3.0(D38999)	USB3.0(D38999)
10G LAN2(M12)	GLAN1(M12)	GLAN2(D38999)	2xGLAN+2x RS232 (D38999)	2xGLAN+2x RS232 (D38999)	2xGLAN+2x RS232 (D38999)
GLAN3(D38999)	GLAN2(M12)	mDP(D38999)	HD-SDI(BNC) Connector	VGA+DVI(D38999)	VGA+DVI(D38999)
GLAN4(D38999)	2xUSB2.0(M12)	mDP(D38999)	DC-IN(D38999)	DC-IN(D38999)	DC-IN(D38999)
RS232(D38999)	DC-IN(M12)	USB3.0(D38999)	1x SWAP SSD TRAY	2x SWAP SSD TRAY	2x SWAP SSD TRAY
DVI (D38999)		USB3.0(D38999)			
DVI (D38999)					
DC-IN(D38999)					

XEON D Server							
Avionics	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aircraft	Aircraft	N/A	N/A	N/A	Aircraft	N/A	N/A
Naval	Naval	Naval	Naval	N/A	N/A	Naval	Naval
Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	Vehicle
ID							
Model	SEASR800	SEAV800	SEASR800-D27	SEAROC-254A	SEAHORUS-200	SEAV800-D27A45	SEAV800-D27
CPU	D-1587	D-21831T	D-21831T	D-1541	D-1587	D-2796NT	D-2796NT
CORE	16	16	16	8	16	20	20
THREAD	32	32	32	16	32	40	40
CACHE	24MB	22MB	22MB	12MB	24MB	30MB	30MB
GPU-1	N/A	Tesla T4	MXM A2000	N/A	N/A	MXM A4500	MXM A4500
GPU-2	N/A	N/A	N/A	N/A	N/A	MXM A4500	N/A
RAM	DDR4- 32GB (up to 128GB)	DDR4-32G (up to 256G)	DDR4-32G (up to 256G)	DDR4- 32GB (up to 128GB)	DDR4- 32GB (up to 128GB)	DDR4-32G (up to 256G)	DDR4-32G (up to 256G)
STORAGE	NVMe 3.0 512GB/sec, 3,400/3,200 MB	NVMe 3.0 512GB/sec, 3,400/3,200 MB	NVMe 3.0 512GB/sec, 3,400/3,200 MB	NVMe 3.0 512GB (MB/sec, Max.) 3,400/3,200 MB	NVMe 3.0 512GB (MB/sec, Max.) 3,400/3,200 MB	NVMe 4.01TB (MB/sec, Max.) 7,150/5,200 MB	NVMe 4.01TB (MB/sec, Max.) 7,150/5,200 MB
DC 28V (18V~36V)	YES	YES	YES	N/A	YES	YES	YES
MIL-STD-1275 (10V~40V)	YES	N/A	N/A	N/A	YES	YES	YES
MIL-STD-1875/70	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Rack Mount	N/A	N/A	N/A	YES	YES	N/A	N/A
MXM-GPU	N/A	N/A	YES	N/A	N/A	N/A	YES
PCI-E GPU	N/A	YES	YES	N/A	N/A	YES	YES
GPU 35W	N/A	YES	YES	N/A	N/A	YES	YES
GPU 110W	N/A	YES	YES	N/A	N/A	YES	YES
Xeon 45W	YES	YES	YES	YES	YES	YES	YES
Xeon 65W	YES	YES	YES	YES	YES	YES	YES
Xeon 120W	N/A	YES	YES	N/A	N/A	YES	YES
Swappable SSD	YES	Options	YES	YES	YES	YES	YES
NVMe-Drive	YES	YES	YES	YES	YES	YES	YES
AES (H/W) Key	YES	Options	YES	N/A	YES	YES	YES
10GbE (NIC)	YES	YES	YES	N/A	YES	YES	YES
25GbE(NIC)	N/A	N/A	N/A	N/A	N/A	Options	YES
100GbE(NIC)	N/A	N/A	N/A	N/A	N/A	N/A	1
Swappable CMOS	YES	Options	YES	N/A	YES	YES	YES
I/O	VGA (M20)	2x10GLAN(D38999)	DC-IN(D38999)	DP(Type A)	2xUSB 2.0 (Type A)	DC-IN(D38999)	DC-IN(D38999)
	IPMI (M20)	VGA(D38999)	2xUSB3.0(D38999)	IPMI LAN(RJ45)	1xRS-232(D-Sub)	USB3.0(D38999)	USB3.0(D38999)
	2*USB3.0(M20)	2xUSB3.0(D38999)	IPMI LAN(D38999)	2xGLAN(RJ45)	4xGLAN(RJ45)	GBase-T LAN (D38999)	GBase-T LAN (D38999)
	USB2.0(M20)	DC-IN(D38999)	2x10GBase-T LAN(D38999)	2xUSB 3.0 (Type-A)	DC-IN(Souriau)	GBase-T LAN (D38999)	GBase-T LAN (D38999)
	DC-IN (Souriau)	2x SWAP SSD TRAY	2x10GFiber LAN(D38999)	2xUSB 2.0 (Type A)	2xUSB 3.0 (Type-A)	10GBase-T LAN(D38999)	10GBase-T LAN(D38999)
	GLAN (Souriau)		VGA (D-SUB)	AC-IN(IEC C14 Plug)	2x10GLAN(RJ45)	10GBase-T LAN(D38999)	10GBase-T LAN(D38999)
	100M(Souriau)		Dual SSD Easy Swap Tray		Dual SSD Easy Swap Tray	25GLAN(LCFT) Options	100G(Fiber FSI)
	RS232(Souriau)				VGA (D-SUB)	25GLAN(LCFT) Options	10GLAN(LCFT) Options
						VGA (D-SUB)	VGA (D-SUB)

	Panel PC & Display								
Military	Military		Military			Military		Military	
ID									
Model	SEACL12-P04E	SEACL12-P04	SEACL15-P20E	SEACL15-P20	SEACL15-P20A20	SEAKY12-P04E	SEAKY12-P04	SEAKY15-P20E	SEAKY15-P20
CPU	i7-1185G7E	i7-1185G7E	E-2276ML	E-2276ML	E-2276ML	N/A	N/A	N/A	N/A
GPU	N/A	N/A	Options	Options	A2000	N/A	N/A	N/A	N/A
RAM	DDR4-16GB (up to 32GB)	DDR4-16GB (up to 32GB)	DDR4-16GB (up to 64GB)	DDR4-16GB (up to 64GB)	DDR4-16GB (up to 64GB)	N/A	N/A	N/A	N/A
STORAGE	NVMe 3.0 512GB (MB/sec, 1150/5,250 MB	NVMe 3.0 512GB (MB/sec, 1150/5,250 MB	2.5" SATA 512GB	2.5" SATA 512GB	2.5" SATA 512GB	N/A	N/A	N/A	N/A
LCD Panel	12.1" TFT LCD	12.1" TFT LCD	15" TFT LCD	15" TFT LCD	15" TFT LCD	12.1" TFT LCD	12.1" TFT LCD	15" TFT LCD	15" TFT LCD
Resolution	1024x768 XGA	1024x768 XGA	1024x768 XGA	1024x768 XGA	1024x768 XGA	1024x768 XGA	1024x768 XGA	1024x768 XGA	1024x768 XGA
Aspect Ratio	"4:3	"4:3	"4:3	"4:3	"4:3	"4:3	"4:3	"4:3	"4:3
Brightness	1000 nits	1000 nits	1000 nits	1000 nits	1000 nits	1000 nits	1000 nits	1000 nits	1000 nits
Touch Panel	Glass-Film-Glass 5-Wire resistor touch panel(Optional)	Glass-Film-Glass 5-Wire resistor touch panel(Optional)	Glass-Film-Glass 5-Wire resistor touch panel(Optional)	Glass-Film-Glass 5-Wire resistor touch panel(Optional)	Glass-Film-Glass 5-Wire resistor touch panel(Optional)	Glass-Film-Glass 5-Wire resistor touch panel(Optional)	Glass-Film-Glass 5-Wire resistor touch panel(Optional)	Glass-Film-Glass 5-Wire resistor touch panel(Optional)	Glass-Film-Glass 5-Wire resistor touch panel(Optional)
Function key	4 Programmable	4 Programmable	20 Programmable Function keys	20 Programmable Function keys	20 Programmable Function keys	4 Programmable Function keys	4 Programmable Function keys	20 Programmable Function keys	20 Programmable Function keys
Display Control	Function keys Power On/Off LCD Brightness +/- Function key backlight On/Off Display mode Select (On/Off/Night Vision)	Function keys Power On/Off LCD Brightness +/- Function key backlight On/Off Display mode Select (On/Off/Night Vision)	Power On/Off LCD Brightness +/- Function key backlight On/Off Display mode Select (On/Off/Night Vision)	Power On/Off LCD Brightness +/- Function key backlight On/Off Display mode Select (On/Off/Night Vision)	Power On/Off LCD Brightness +/- Function key backlight On/Off Display mode Select (On/Off/Night Vision)	Function keys Power On/Off LCD Brightness +/- Function key backlight On/Off Display mode Select (On/Off/Night Vision)	Function keys Power On/Off LCD Brightness +/- Function key backlight On/Off Display mode Select (On/Off/Night Vision)	Function keys Power On/Off LCD Brightness +/- Function key backlight On/Off Display mode Select (On/Off/Night Vision)	Function keys Power On/Off LCD Brightness +/- Function key backlight On/Off Display mode Select (On/Off/Night Vision)
DC 28V (9V~36V)	YES	YES	YES	YES	YES	YES	YES	YES	YES
IP Rating	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
MIL-461 (RE102)	YES	YES	YES	YES	YES	YES	YES	YES	YES
MIL-461/1275	YES	N/A	YES	N/A	N/A	YES	N/A	YES	N/A
I/O	DVI(D38999)	DVI(D38999)	DVI(D38999)	DVI(D38999)	DVI(D38999)	DVI(D38999)	DVI(D38999)	DVI(D38999)	DVI(D38999)
	2 x USB + 1 x COM(D38999)	2 x USB + 1 x COM(D38999)	2 x USB + 1 x COM(D38999)	2 x USB + 1 x COM(D38999)	2 x USB + 1 x COM(D38999)	2 x USB(D38999)	2 x USB(D38999)	2 x USB(D38999)	2 x USB(D38999)
	2 x GLAN(D38999)	2 x GLAN(D38999)	2 x GLAN(D38999)	2 x GLAN(D38999)	2 x GLAN(D38999)	DC-IN(D38999)	DC-IN(D38999)	DC-IN(D38999)	DC-IN(D38999)
	DC-IN(D38999)	DC-IN(D38999)	DC-IN(D38999)	DC-IN(D38999)	DC-IN(D38999)				

MPC Series

Seatronx Rugged PCs



MPC-3600



SEA-C65 / SEA-C67 IP65/IP67 Waterproof



MPC-101 Compact PC

SEATRONX offers the highest quality marine computers specifically designed to withstand shock and vibration, power fluctuation with wide temperature tolerance.



Part Number:	MPC-101	MPCRAC (optional MPCRAC-i7)	MPC-3600-i5	MPC-3600-i7
CPU	Intel Celeron J1900, Quad Core, 2MB Cache, 2.0 GHz	Intel i5 9400 CPU (i7 optional)	Core™ i5-6500TE, Quad Core, 6MB Cache, up to 3.3 GHz, Skylake	Core™ i7-6700TE, Quad Core, 8MB Cache, up to 3.4 GHz, Skylake
Voltage	9-48VDC	100-240VAC	9-48VDC	9-48VDC
RAM	DDR3 SODIMM	DDR4 3200MHz	DDR4/2400,SO-DIMM	DDR4/2400,SO-DIMM
8GB	Standard	NA	Standard	NA
16GB	NA	Standard	NA	Standard
Video	1x DVI-I	DVI / VGA / HDMI Video Out	1x DVI-I (VGA by optional split cable); 2x DP	1x DVI-I (VGA by optional split cable); 2 x DP
STORAGE	120GB 2.5" SATA SSD (internal)	2TB Hard Drive	1x 240GB 2.5" SATA SSD (removeable)	1x 480GB 2.5" SATA SSD (removeable)
USB ports	1x USB 3.0, 3x USB 2.0	2x USB 2.0 Rear; 4x USB 3.0 Rear; 2x USB 3.0 Front	6x USB 3.0 (4 rear / 2 front); 2x USB 2.0 (front)	6x USB 3.0 (4 rear / 2 front); 2x USB 2.0 (front)
Serial ports	2x RS-232/422/485	4x RS232/485 Ports	4x RS-232/422/485 (rear); 2x RS-232/422/485 (internal)	4x RS-232/422/485 (rear); 2x RS-232/422/485 (internal)
Ethernet	2x GbE	1	2x GbE	2x GbE
Expansion	2x Full-size Mini PCIe	(1) PC le 3.0 x16, (1) PC le 3.0 x16 (@ x4 maximum}, (1) PC le 3.0 x1 and (1) PCI-BUS vertical	4x Full-size Mini PCIe	4x Full-size Mini PCIe
I/O	4x COM	8x USB; 4xCOM	2x COM, 2x DP, 1x DVI-I	2x COM, , 2x DP, 1x DVI-I
Remote Power option	YES	Available on Request	YES	YES
Operating System	Windows 7/10	Windows 10 Pro 64 Bit	Windows 7/10 & Linux	Windows 7/10 & Linux
Case Style	Rugged	Rugged Rack Mount	Rugged	Rugged
Datasheet	VIEW DATASHEET >	Custom Configuration available. Contact Seatronx for any specifications review.	VIEW DATASHEET >	VIEW DATASHEET >

NOTE: THE SPECIFICATIONS ABOVE ARE FOR OUR STANDARD SYSTEMS. CUSTOM SYSTEMS ARE AVAILABLE. CALL FACTORY FOR DETAILS.

SEA-C65 / SEA-C67 Series

Full IP65/IP67 rated

Waterproof Computer



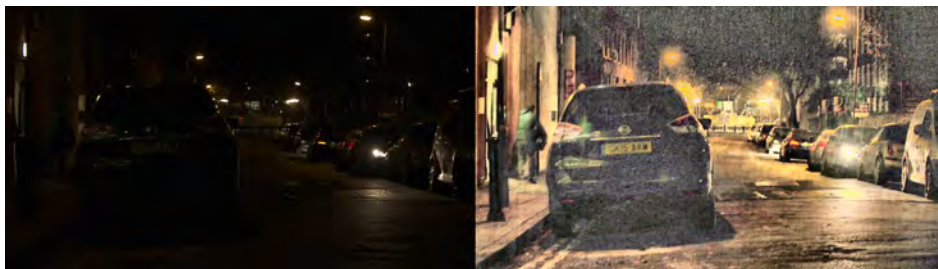
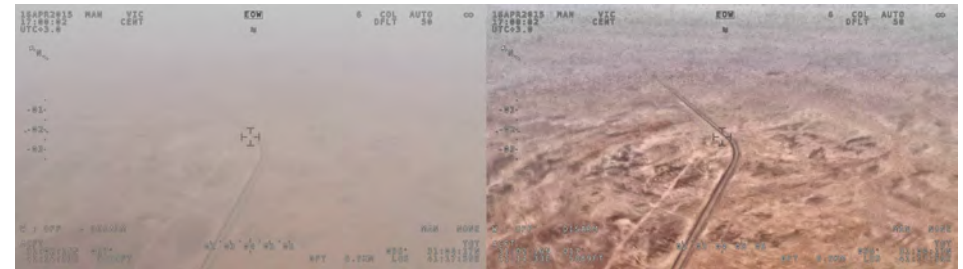
Part Number:	SEA-C65-i5 / SEA-C67-i5		SEA-C65-i5 / SEA-C67-i5
Processor	7th Gen Intel Core™ i5-7300U Processor, Dual Core, 3MB Cache, up to 3.5 GHz		7th Gen Intel Core™ i3-7100U Processor, Dual Core, 3MB Cache, 2.4 GHz
System Chipset	SoC integrated		
LAN System Chipset	GbE1: Intel I219LM (Support Wake-on-LAN and PXE) GbE2: Intel I210-AT (Support Wake-on-LAN and PXE)		
System Memory	1x 260-Pin DDR4 1866/2133MHz SODIMM. Max. up to 16GB 4GB DDR4 1866/2133MHz SODIMM (IP-67 Model)		
BIOS	AMI 128Mbit SPI BIOS		
Watchdog	Software Programmable Supports 1~255 Sec. System Reset		
Video Output	1 x VGA		
Storage	mSATA SIM Socket SSD/HDD	1x mSATA shared by 1x Mini PCIe (IP65 Model) 2x External SIM socket 1x Internal 2.5" SATA HDD Bay (IP65 Model) 1 x 128GB 2.5" SATA SSD (IP67 Model)	
Expansion	Mini PCIe	2x Full-size Mini PCIe	
I/O	COM LAN USB Others	1x RS-232/422/485 by M12 D-Code 8-pin 2x LAN by M12 X-Code 8-pin 1x USB 3.0 (Waterproof connector) 2x USB 2.0 by M12 D-Code 6-pin 2x WiFi Antenna 1x Power Switch	
Operating System	Windows Linux	Windows 10 Linux kernel 4.X	
Power	Power Adapter Power Mode Power Supply Voltage Power Connector Power Protection	Optional AC/DC 24V/11A(280W) or 24V/9A(220W) Optional waterproof power input cable ATX 9~50VDC M12 A-code 4-pin OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection	
Environment	Storage Temperature Relative Humidity Certification Vibration Shock	-40 C to 85 C 10% to 95% (non-condensing) IP65 or IP67 CE, FCC Class A with SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis with HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis Shock with SSD: 50G, half sine, 11ms	
Physical	Dimensions Construction Mounting	231 (W) x 292 (D) x 56.5 (H) mm Extruded Aluminum with Heavy Duty Metal Options Wall Mounting	
Datasheet	VIEW DATASHEET >		

Seatronx Vision Restoration Plugin Optimized Computer Vision

Optional Plugin on surveillance systems provides powerful computer vision (CV) algorithms that dramatically clarify and enrich the quality of images and live video. The new restoration Plugin fixes poor images or video into sharp, clear imagery, or live video with intricate details. This makes images and live video more intelligible and useable for humans, optimizing the performance of video analysis (VA), and Artificial Intelligence (AI).

Features:

- Real Time Low Latency Clarity for Live Video
- No Code, Plug & Play
- Expose Fine Details
- Increase Sensor Range and Coverage
- Mitigate Any Difficult Condition
- Eliminate Obstructions
- Restore Natural Color
- Edge Sharpening Improvement





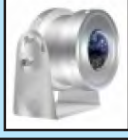
Explosion Proof & Anti-Corrosion Cameras

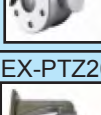
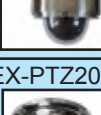


Explosion Proof & Anti-Corrosion Camera systems for hazardous areas and harsh environments. They are made of Stainless Steel material and suitable for a variety of applications both on shore and offshore. Applications include: Oil&Gas, Marine ,Wind ,Chemical and many other industries where quality and durability are a prerequisite.

Explosion Proof & Anti-Corrosion Camera Systems

Part Number:	Description :
KDM-EX-FL204IR01 (T) 	2MP Explosion Proof Anti-Corrosion WDR Fixed IR Camera
KDM-EX-FL436IR01 (D) 	4MP Explosion Proof Anti-Corrosion Fixed WDR Camera
KDM-EX-FL204IR01 (H) 	2MP Explosion Proof Anti-Corrosion Fixed IR Camera
KDM-EX-FL204IR02 (U) 	2MP Explosion Proof Anti-Corrosion IR Fixed WDR Network Camera
KDM-EX-FL204IR02 (T) 	2MP Explosion Proof Anti-Corrosion WDR Fixed IRCamera
KDM-EX-FL204IR03 (T) 	Explosion Proof Anti-Corrosion Fixed Super Mini Camera

Part Number:	Description :
KDM-EX-FL204IR03 (S) 	2MP Explosion Proof Anti-Corrosion Super Mini Fixed IR Camera
KDM-EX-FL21704 	Explosion Proof Anti-Corrosion Fixed Mini Dome Super Wide View Camera
KDQ-EX-FL204IR 	2MP Explosion Proof Anti-Corrosion WDR HD IR Fixed Dome Network Camera
KDW-EX-VL204IRW02(H) 	Explosion Proof Anti-Corrosion Fixed WDR HD IR Camera with wiper
KDH-EX-VL230IRW01 	2MP 30X Explosion Proof Anti-Corrosion Fixed IR Camera with wiper

Part Number:	Description :
KDH-EX-VL220IR01C 	2MP 20X Explosion Proof Anti-corrosion Crane Damping Starlight IR Camera
KDH-EX-VLM4828IR 	4x8MP Ex-Proof Anti-Corrosion Multi-Sensor Panoramic Bullet Starlight IR Network Camera
KDQ-EX-VLM452812IR 	4 × 5MP Ex-Proof Anti-Corrosion Multi-Sensor No-Splicing Panoramic Starlight WDR IR Dome Network Camera
KDQ-EX-PTZ2030IRW01 	2MP 30X Explosion Proof Anti-Corrosion PTZ Camera (IP Type)
KDQ-EX-PTZ203002 	2MP 30X Explosion Proof Anti-Corrosion WDR PTZ Dome Camera
KDQ-EX-PTZ2012IR04 	2MP 12X Explosion Proof Anti-Corrosion Mini PTZ IR Dome Camera

Explosion Proof & Anti-Corrosion Camera Systems

continued

Part Number:	Description :
KDQ-EX-VL2040FL8205IR 	2MP 40X Optical zoom 8PCs Fixed Lens Ex-Proof Anti-Corrosion IR Panoramic PTZ Dome Camera
KDY-EX -PTZ2044IRW01 	2MP 44X Explosion-proof IR PTZ Star light WDR Camera
KDY-EX -PTZ2030IR02 	2MP 30X Explosion-proof Anti-Corrosion IR PTZ Camera
KDY-EX-PTZ2044IRW01T625 	Explosion-proof Anti-Corrosion PTZ Dual light Thermal Camera
KDY-EX-PTZ2044IRW01P 	2MP 44X Explosion Proof Anti-Corrosion PTZ IR Camera with washer

Part Number:	Description :
KDQ-UDC-D120Z 	PT2MP 20X Underwater HD Network PTZ Dome Camera
KDH-UDC-IF2010X 	300Meters 2MP 10X Under water Bullet Vari-focal HD Camera
KDT01(02) 	2MP 20 X High Temperature CC TV Camera
KDY-PTZ4035N-6T2575 	10km Long Range 4MP 35x Optical Zoom 640x512 25-75mm Motorized Lens 12um IVS Thermal PTZ Camera

Part Number:	Description :
KDH-UDC-SZ10X 	17.3 Inch Stainless Steel Explosion Proof LCD Display Monitor
NVR304-X Series 	Network Video Recorder
UTP7524GE-POE-4GF 	24 Gigabit PoE Ports Managed Ethernet Switch
Mini Sub-PC 	Mini Sub-PC
EX101LDP-T/R 	Long Distance PoE Extenders
CAT6A Cable 	Shipboard Data Communication CAT6A Cable