

## DuraPANEL 24” Wide Screen for Radar & ECDIS



DuraPANEL panel PC's are designed for rugged industrial applications, and features:

- Wide temperature range
- Vibration resistance
- High reliability, less down time & service
- High degree of flexibility
- Easy to install
- Rigid mechanical design
- Low Power consumption
- Intel Haswell Core i3, i5 and i7 processors
- Industrial motherboard - long availability
- Up to 16GB DDR3 RAM
- Dual Gb LAN
- Backlight dimmable from keys on front
- High performance thermal design
- Optional ECDIS calibration
- Optional Pcap Touch
- Desk / wall / ceiling mounting-brackets available for VESA.

# Specifications

## DuraPANEL - General

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<b>CPU:</b>	<b>Intel® Core® i3-4330TE– 2,4 GHz 2 cores, 4 threads (CPUMark 3,224)</b> <i>Optional Intel® Core i5-4590T 2,0 GHz 4 cores, 4 threads (CPUMark 5,758)</i> <i>Optional Intel® Core i7-4770TE 2,3 GHz 4 cores, 8 threads (CPUMark 8,800)</i> <i>Optional Intel® Celeron G1820TE 2,2 GHz 2 cores (CPUMark 2,230)</i>
<b>Chipset:</b>	<b>Intel® Q87 Chipset</b>
<b>Memory:</b>	<b>4GB DDR3 1333/1600 MHz SODIMM</b> <i>Up to 16GB DDR3 SODIMM</i>
<b>Hard Disk Drive:</b>	<b>80GB SSD</b> <i>Optional 120 / 200 / 240... 1600 GB SSD SATA or USB / CF (option)</i>
<b>Video:</b>	<b>Intel® Graphics controller on CPU</b> <i>DirectX* 11.2 and OpenGL - 4.3, OpenCL 2.0, Shader Model 5</i> <i>3 Independent display capable</i>
<b>External Video out:</b>	<b>HDMI and DP video output connectors</b>
<b>Audio:</b>	<b>Mic-in, Line-out, 2 x 3,5mm Minijack</b>
<b>Ethernet:</b>	<b>2 x 10/100/1000 Gbits/s Ethernet LAN on-board, (RJ45)</b> <i>1 x Intel® PHY I217LM (VPro)</i> <i>1 x Intel® I210AT</i>
<b>USB:</b>	<b>4 x USB 3.0 ports plus 6 x USB 2.0 internally available</b>
<b>COM:</b>	<b>1x RS232</b>
<b>OS:</b>	<b>Windows 7, Windows 8, Windows 10, Linux</b>

## DuraPANEL - Front

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<b>Display size:</b>	<b>23,6 inch 16:9 LCD (TFT)</b>
<b>Resolution:</b>	<b>1920 x 1080</b>
<b>Active area:</b>	<b>521 x 293 mm</b>
<b>View angle:</b>	<b>89° (T/B), 89° (L/R) (typical)</b>
<b>Luminance:</b>	<b>250 Cd/m<sup>2</sup> (typical)</b>
<b>Contrast ratio:</b>	<b>3000:1 (typical)</b>
<b>Front glass:</b>	<b>Anti-glare Hardness 3H</b>
<b>Touch:</b>	<b>Optional Pcap Multi touch</b>

## DuraPANEL - Power

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<b>Standard:</b>	<b>90-264VAC. 50-60Hz Input</b> <i>24VDC (18-36VDC) optional</i> <i>Dual power, combined AC and DC input optional</i>
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## DuraPANEL - Environmental

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<b>Operating Temperature:</b>	<b>-15 to 55 °C</b>
<b>Storage Temperature:</b>	<b>-25 to 70 °C</b>
<b>Relative Humidity:</b>	<b>8 to 95 %</b>
<b>Protection:</b>	<b>IP65 (from front, when mounted in console)</b>

## DuraPANEL - Approvals

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<b>Marine:</b>	<b>IACS E10 Rev. 6 &amp; IEC 60945 Ed. 4</b>
<b>ECDIS:</b>	<b>IEC 61174 ed. 4</b>
<b>Radar / Navigation:</b>	<b>IEC 61174 ed. 4, IEC 62288 ed. 2, IEC 62388 ed. 2</b>
<b>Type Approvals:</b>	<b>MR Certificate</b> <i>For marine class approvals – see <a href="http://www.isic-systems.com">www.isic-systems.com</a></i>

## DuraPANEL - Dimensions

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<b>Size:</b>	<b>593 (W) x 384,1 (H) x 68mm (D)</b>
<b>Weight:</b>	<b>App. 12 kg.</b>
<b>Bracket:</b>	<b>Desk/ceiling-and wall-bracket VESA 150x280 mm</b>