

# Technical Data Sheet

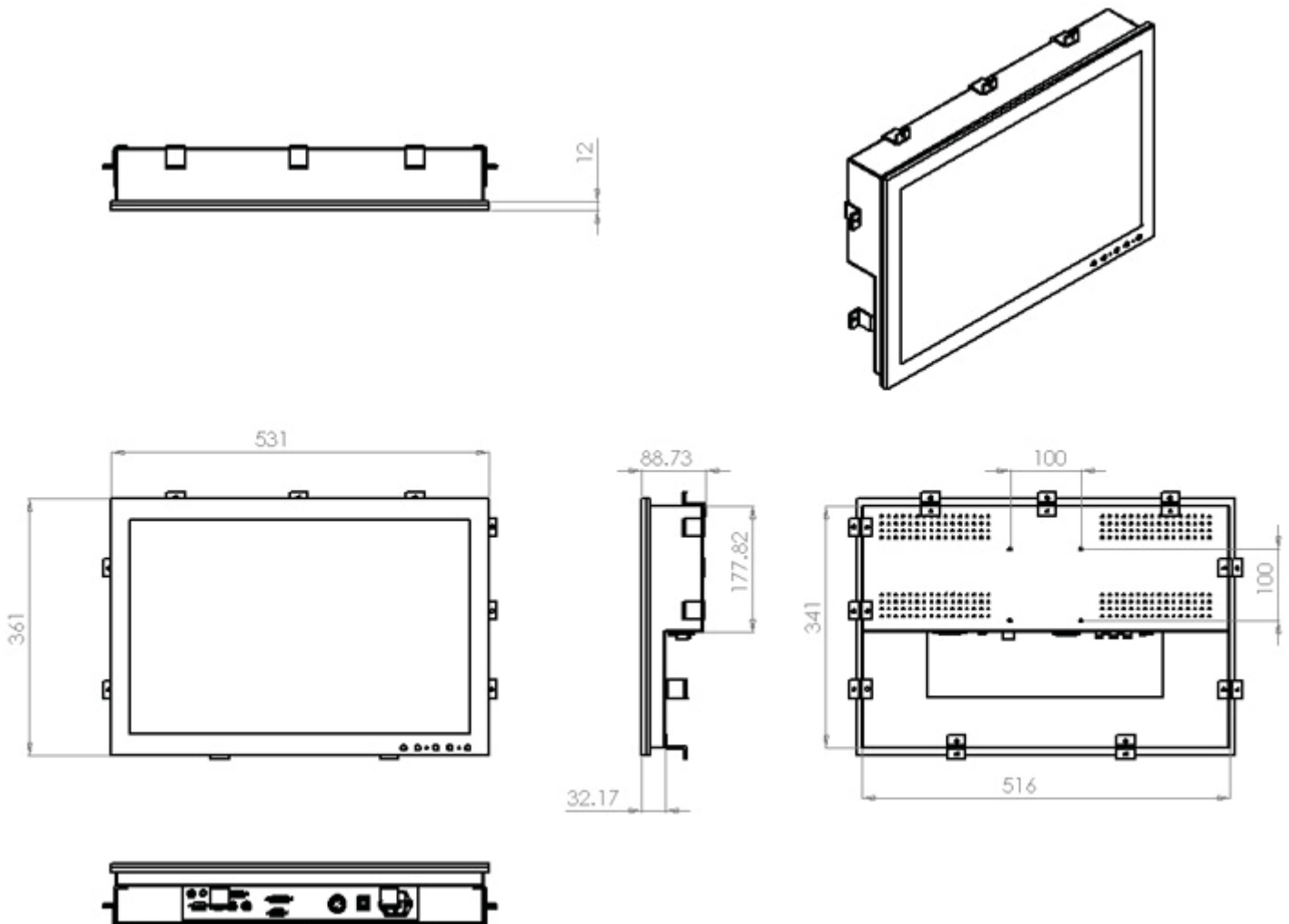
Product Part Number: A7-2212D-DV  
Last Revision: 20th October 2010  
Page: 1 of 2

# AADAPTIV TECHNOLOGIES

## 22in Widescreen Glass Bridge LED Monitor for Daylight Applications...

AAdaptiv's DAYLIGHT viewable 'Edge 2 Edge' Glass Bridge Monitor incorporates the latest LED Backlight technology to meet ambient light conditions typically found in Bridge applications. This provides increased performance, higher reliability and longer life.

Features include - Dual AC/DC power supply input. Touch sensitive controls built into the 6mm thick laminated glass front bezel providing local operator control for: Power, Deep dimming backlight brightness, OSD Menu functionality and Signal source.



**AADAPTIV.COM**  
A COMMAND DECISION

**AAdaptiv Technologies**  
Maidstone, United Kingdom  
T: +44 845 224 3045

**AAdaptiv Technologies**  
Fort Lauderdale, United States  
T: +1 954 302 8675

**AAdaptiv Technologies**  
Saint-Tropez, France  
T: +33 4 83 58 03 40

**AAdaptiv Technologies**  
København, Denmark  
T: +45 3526 3262

# General Specifications



Product Part Number: **A7-2212D-DV**

Last Revision: **20th October 2010**

Page: **2 of 2**

| DISPLAY CHARACTERISTICS                         |  | CONSTRUCTION                                |  |
|---|--|---|--|
| Size / Type :                                   | 22.0" Widescreen Active Matrix TFT             | Glass Front Bezel:                          | 'Edge 2 Edge' Glass bonded to anodised aluminium machined sub-assembly   |
| Native Resolution:                              | 1680 x 1050 Pixels                             | Rear Housing:                               | Fabricated sheet aluminium - chemically treated Alocrom 1200   |
| Aspect Ratio:                                   | 16:10  | Protective Safety Glass:                    | 6mm Laminated, AR coated & Optically Bonded directly to LCD Display Panel  |
| Pixel Pitch:                                    | 0.282 (H) x 0.282 (W) mm                       | Ventilation:                                | Convection   |
| Active Display Area:                            | 473.76 (H) x 296.1 (W) mm                      | Weight (lbs):                               | 9.7kg (21.4) approx. - Monitor ONLY  |
| Response Time:                                  | 5 msec - Typical                               | Surface Mount Height (inch):                | Height from surface 13mm (0.511") complete with neoprene gasket. Rear Fixing Bracket locations permit multiple monitors to be installed in close proximity   |
| Contrast Ratio:                                 | 1000:1 - Typical                               | Console/Panel Cut-out Size (inch):          | 519mm (20.433") W x 344mm (13.543") H  |
| Brightness / Light Intensity:                   | 750cd/m <sup>2</sup> - Typical                 | Overall Dimensions/Size (inch):             | 531mm (20.905") W x 361mm (14.212") H x 89mm (3.503") D  |
| Viewing Angles (at CR≥10):                      | 80° - Typical (Left/Right/Up/Down)             |   |  |
| Backlight Type:                                 | LED (Light Emitting Diode)                     | <b>CONNECTIONS (x9 Source Inputs)</b>       |  |
| Backlight Dimming Range:                        | 0 to 100% (Deep Dimming)                       | x2 DVI-I ( Digital & RGB) signals:          | 29p DVI (Female) - or RGB IN with 'Y' Cable Adapter  |
| Backlight Life Time:                            | 50,000 Hrs                                     | x3 Composite Video BNC signals:             | BNC (Female)   |
| Colour Depth:                                   | 16.7 Million - Depending on Graphics Card      | Composite Video RCA signal:                 | RCA (Female)   |
|   |  | S-Video signal:                             | S-Video (Socket)   |
| <b>DVI-A GRAPHIC DATA INPUT (x2)</b>            |  | RS232 Interface:                            | 9p D-Sub (Female)  |
| Resolution:                                     | VGA (640 x 480) up to WUXGA (1920 x 1200)      | RS422/485 Interface:                        | 9p D-Sub (Female) - accessed via custom 'Y' Cable Adapter  |
| Pixel Frequency:                                | Up to 165MHz                                   | Touchscreen Interface:                      | USB Type A - Provisional (Knock-out)   |
| Analog:   | Nominal 0.7 V p-p (Max. 2.0V p-p)              | AC Power Input:                             | IEC Inlet (Fused)  |
| Input Impedance:                                | 75 Ω   | DC Power Input:                             | 4p Circular (Male) - Binder 680 series   |
| Horizontal Frequency:                           | 15kHz to 100kHz                                |   |  |
| Vertical Frequency:                             | 30Hz to 100Hz for SXGA (30Hz to 65Hz for UXGA) | <b>USER CONTROLS / INDICATION / SENSORS</b> |  |
| Sync on Green:                                  | -2.0V to +5.0V                                 | Glass Front Bezel:                          | Touch Sensitive LED Backlit Buttons x5 for: Power, Up, Down, Menu, Signal/Select<br>Indicaton: Power GREEN (RED / Standby Mode) other button symbols (x4) BLUE<br>Sensors for: Infrared Remote Control & Automatic Ambient Light Control |
| Separate H-Sync and V-Sync:                     | 0.0V to +5.0V                                  | Rear Housing:                               | Power ON/OFF Switch (AC power source isolation ONLY)   |
|   |  |   |  |
| <b>DVI-D GRAPHIC DATA INPUT (x2)</b>            |  | <b>ENVIRONMENTAL</b>                        |  |
| Resolution:                                     | VGA (640 x 480) up to WUXGA (1920 x 1200)      | Operating Temperature / Humidity:           | -15°C to +55°C (5°F to 131°F) / 30 to 95% N.C.   |
| Pixel Frequency:                                | 25 to 165MHz                                   | Storage Temperature / Humidity:             | -20°C to +60°C (-4°F to 140°F) / 10 to 95% N.C.  |
| Vin low max:                                    | 0.8V   | Compass Safe Distance:                      | TBD  |
| Vin high min:                                   | 2.0V   | IP Rating:                                  | Front Sealed to IP67 / NEMA 6 (Applies to console mounted monitors)  |
| HDCP:   | Ready -requires external Licence               |   |  |
|   |  | <b>APPROVALS / SHIPPING / WARRANTY</b>      |  |
| <b>COMPOSITE VIDEO DATA INPUT (x4)</b>          |  | Maritime Certification (pending):           | IACS E10, IEC 60945, IEC 61174 (ECDIS), IEC 62388 (Radar), ABS, DNV, LRS & RINA  |
| Input Source:                                   | NTSC/PAL/SECAM + All Sub Standards             | Carton Size (inch) & Weight (lbs):          | TBD mm (TBD) & 12.2kg (26.9) approx.   |
|   |  | Warranty Period / Type:                     | 2 Years / RTB (Return to Base)   |
| <b>S-VIDEO DATA INPUT</b>                       |  |   |  |
| Specification:                                  | Y input 1Vpp, C input 0.286Vpp, 75Ω 1Vpp, 75Ω  | <b>NOTES</b>                                |  |
|   |  | Touchscreen Factory Option:                 | On Request - IEC 6045 Compliance TBC. Contact sales office for clarification.  |
| <b>INPUT VOLTAGE (Dual Source AC and/or DC)</b> |  | Accurate Demensions:                        | Go to <a href="http://www.aadaptiv.com">www.aadaptiv.com</a> and download relevant 3D Model / .DWG drawing   |
| AC Input:                                       | 90 to 264V 50/60 Hz                            | EDID Support:                               | Programmable memory onboard pre-programmed with universal EDID nfo...  |
| DC Input:                                       | 12 to 24V DC                                   |   |  |
| Power Source/Switching:                         | With both AC & DC connected - AC Input sourced |   |  |
| Power Consumption:                              | TBD < 50 watts                                 |   |  |

\* Due to a policy of continuous product development Aadaptiv Technologies Limited reserves the right to change specifications and descriptions without prior notification.

**AADAPTIV.COM**  
A COMMAND DECISION

**sales@adaptiv.com**