

## 23.1" Approved Centric Series Display

### ELECTRICAL DESCRIPTION

### MECHANICAL DESCRIPTION

#### Display Characteristics:

Type: 23.1" Active Matrix TFT  
Dot Number: 1600 x 1200 Pixels  
Dot Pitch: 0.294 mm  
Active Display Area: 470.4 mm x 352.8 mm  
Response Time: 20ms Average - Typical  
Contrast Ratio: 500:1 Min.  
Brightness / Light Intensity: 250 cd/m<sup>2</sup> (Nits) - Typical  
Viewing Angles L/R/U/D: 85°/85°/85°/85°  
Backlight Life: 50,000 Hours - Typical  
Colour Depth: 16.7 Million (Depending on Graphics Card)

#### Dimming:

Range: 0-100% (Dimming Ratio 1000:1)

#### DVI-I Input:

Analog Interface: RGB 0.7-1.0V p-p  
Sync-on-Green (-ve) 0.3V.  
Digital Interface: DVI 1.0 Compatible Interface  
108 MHz Operation.

#### Synchronisation Range:

Horizontal Scan: 15 - 100 kHz  
Vertical Scan: 30 - 65 Hz

#### Resolutions:

VESA Support for: 1600 x 1200 UXGA\*  
1280 x 1024 SXGA  
1024 x 768 XGA  
800 x 600 SVGA  
640 x 480 VGA  
\*Recommended for optimised resolution...

#### Composite Video Input:

Input Source: NTSC, PAL, SECAM with 'Picture in Picture' (PIP) facility.

#### Input Voltage:

AC or DC Input: 115V AC +/- 10% or  
230V AC +/- 10% (internal switch).  
24V DC +30% -20%

#### Power Consumption:

AC Supply: 85W  
DC Supply: 70W

#### Environmental:

\*\*Operating Temp: -15 to +55°C (IEC 60945)  
Storage Temp: -25 to +70°C  
Operating Humidity: 30% to 90% (Non-Condensing)  
Storage Humidity: 10% to 90% (Non-Condensing)  
Vibration: +/-1mm, 2 to 13Hz: 0.7g 13 to 100 Hz

\*\*We DO NOT recommend routine operation @ extreme temperatures...

#### Construction:

Finish: Front Bezel - Grey RAL 7015  
Housing - Grey RAL 7016  
Stand & Turntable - Grey RAL 9007  
Housing: Aluminium  
Front Sealing: Front Bezel IP66. IP67 possible by using optional sealing kit (gasket and grease)  
Protective Safety Glass: Flush mounted, Conturan Hardened, Laminated & Anti-glare coated.  
Ventilation: Convection (No Fans)

#### Dimensions:

Display for Flush Mounting (mm): 20.7" (526) H x 23.46" (596) W x 3.05" (77.6) D  
Display + Stand + Turntable (mm): 22.4" (569) H x 24.2" (615) W x 21.6" (548) D  
Panel Cut-out (mm): 19.44" (493.8) H x 22.2" (564) W

#### Weight:

Display (Kg) : 37.9 lbs (17.2)  
Display with Stand & Turntable (Kg): 50.3 lbs (22.8)

#### Connections:

DVI Signal: DVI-I Female  
Composite Signal: RCA Female Jack  
S-Video: S-Video Socket  
RS232 Control: 9-pin Female D-SUB  
AC Power: IEC Inlet  
DC Power: Screw Terminal

#### User Controls:

Front Bezel Membrane Buttons: Lock, -, +, Set, Menu & Power  
Front Panel Indicators: AC & DC Power LEDs  
Brightness Knob: Potentiometer (1000:1)

#### Shipping Details:

Carton Size (cm): 27.6" (70) x 25.6" (65) x 8.7" (22)  
Weight (Kg): 43.9 lbs (19.9)

### APPROVALS / WARRANTY

#### Certification:

Maritime / Military: IEC 60945 4th Edition. IEC 61174 (ECDIS), IEC 60936 (RADAR) & IEC 60529 (IP). MIL-STD-810F.  
IACS E10 (to obtain ABS, BV, CCS, GL, KR, LR, NK, RINA, RS).

#### Type Approvals:

ABS - Pending

#### Limited Warranty:

2 Year

### ORDERING CODES

23.1 Approved Centric Display: 23-2310  
Adjustable Universal Stand\*: 25-231US01  
Turntable (Requires Stand): 25-231T  
Sunshade: 25-231SS

Note: 1) IEC 60945 Approved with Turntable...

#### Nauticomp Inc.

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#### Nauticomp European Distribution

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#### Nauticomp International

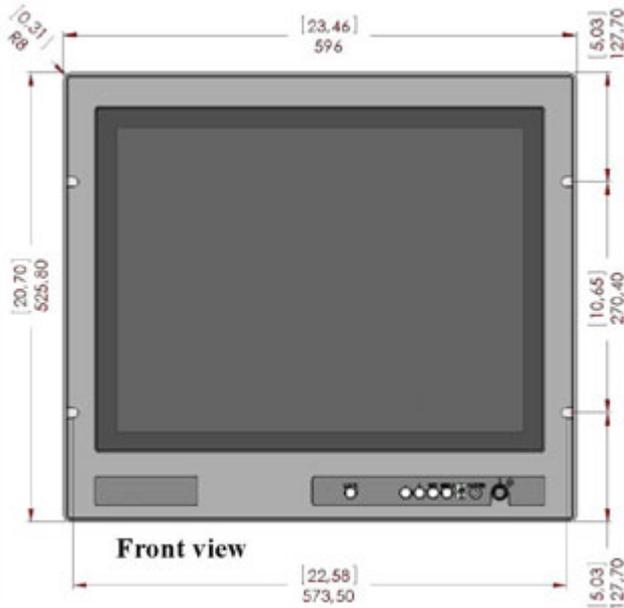
1200 NE 7th Avenue  
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URL: [www.nauticomp.com](http://www.nauticomp.com) E-Mail: [sales@nauticomp.com](mailto:sales@nauticomp.com)

Due to a policy of continuous product development NAUTICOMP reserves the right to change specifications and descriptions without prior notification. All trade marks acknowledged.

## Mechanical Specifications - Display

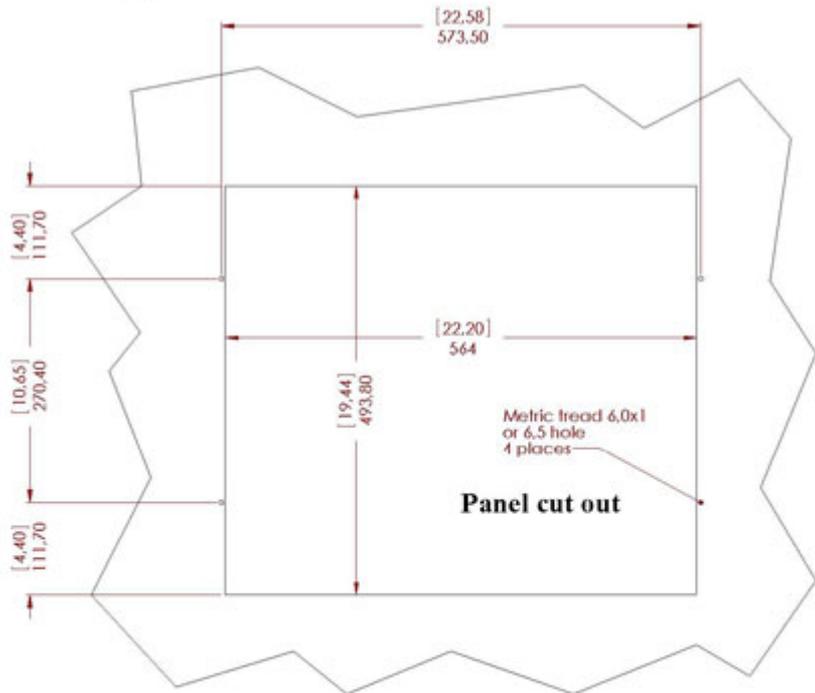
Note: All dimensions are in mm and (inch)



Back view



Side view



Panel cut out



Top view



Bottom view

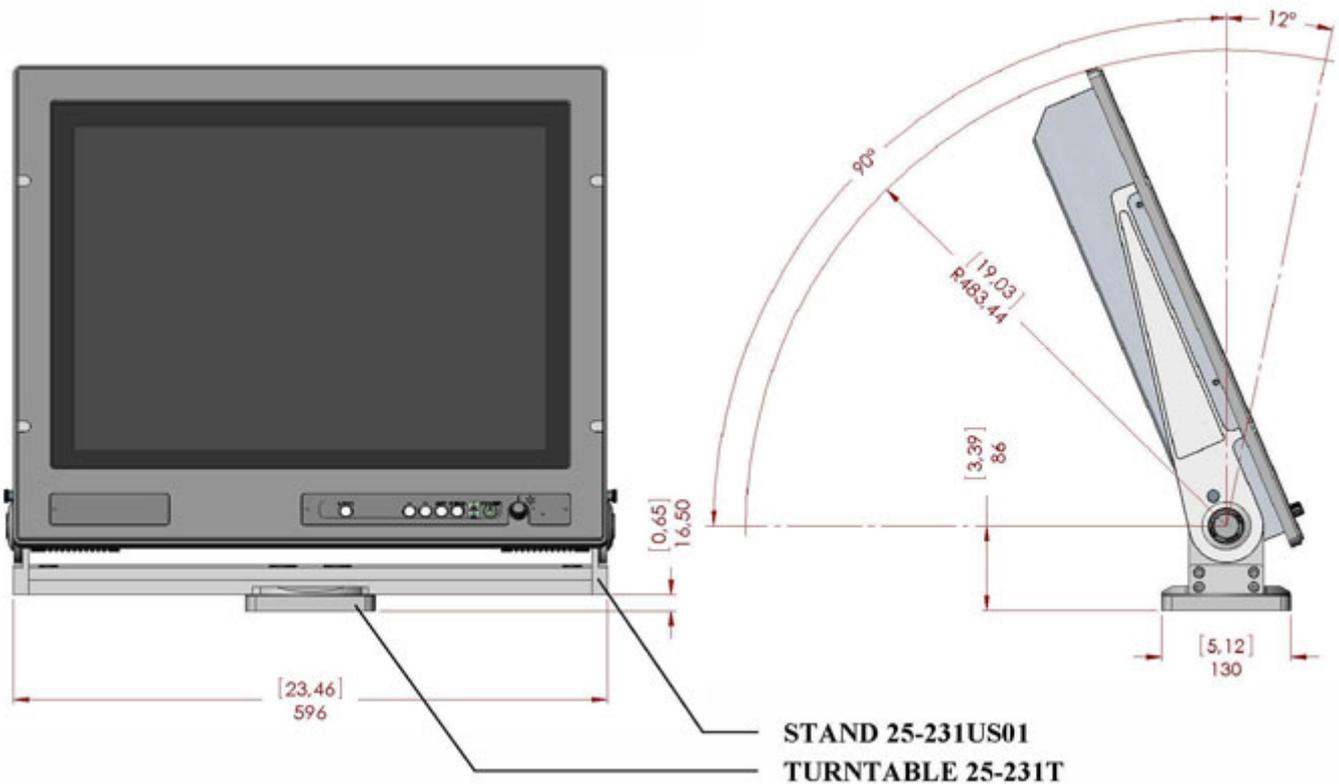
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## Measurements - Stand & Turntable



EMPTY

*Note: All dimensions are in mm and (inch)*

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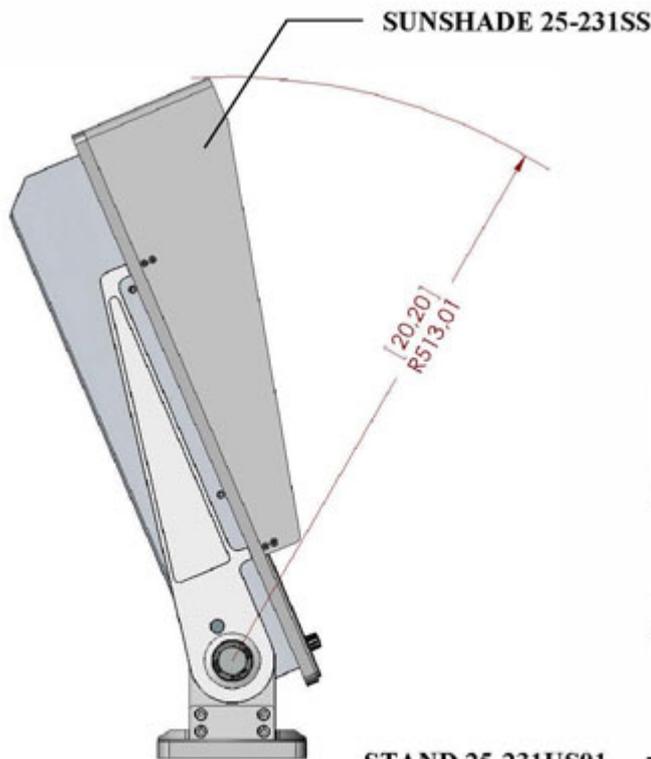
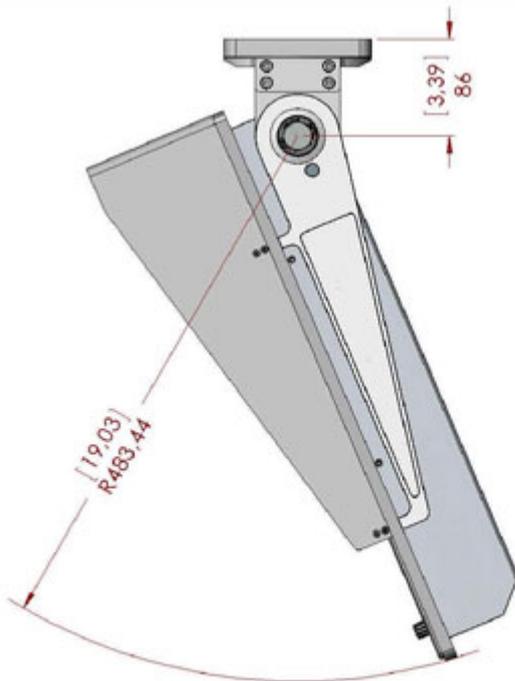
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## Measurements - Stand, Sunshade & Turntable



SUNSHADE 25-231SS

STAND 25-231US01



TURNTABLE 25-231T

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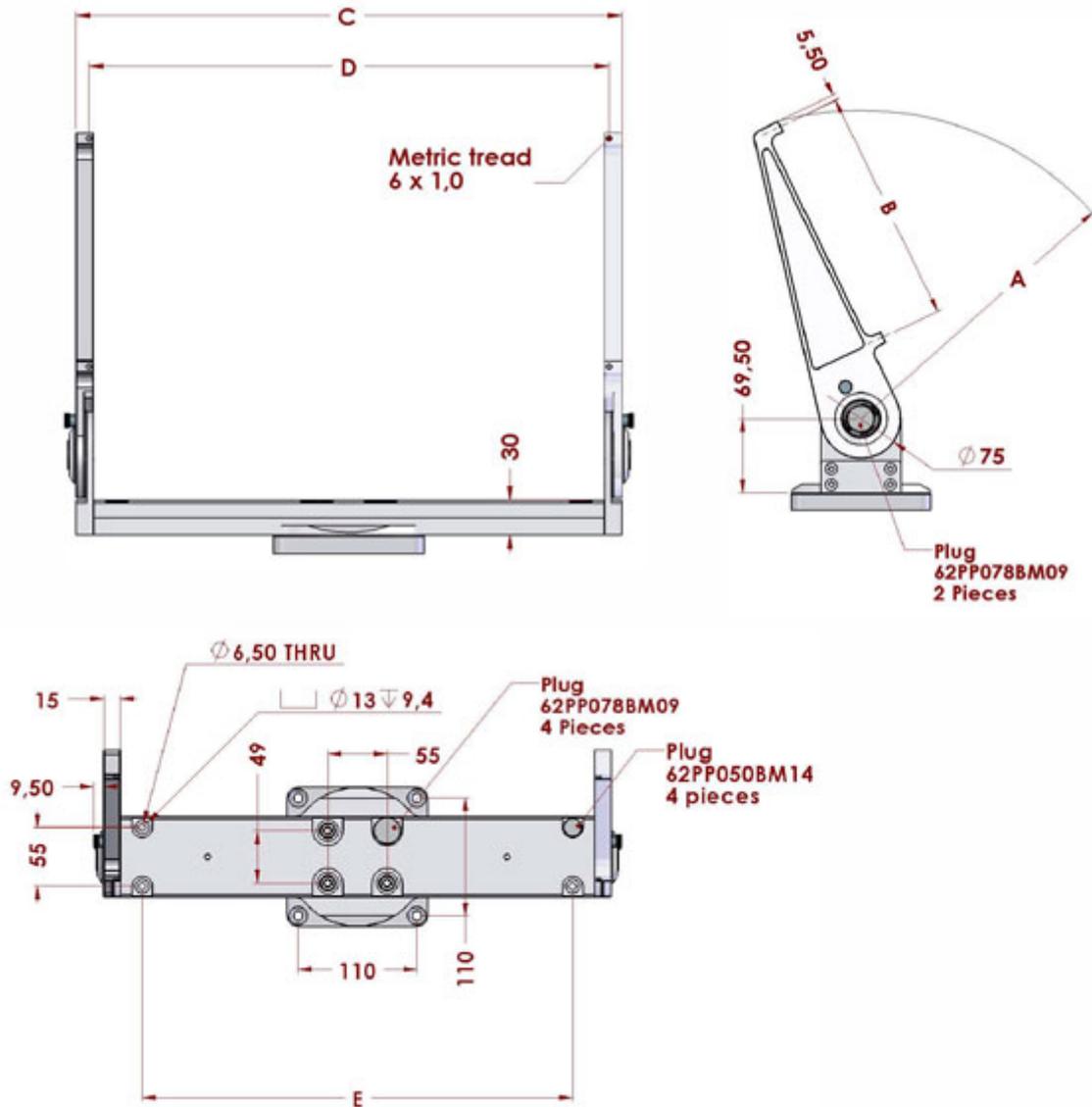
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## Measurements - Stand 25-231US01 & Turntable



Note: All dimensions are in mm

MEASUREMENTS (in):-				
A	B	C	D	E
357	270.4	596	573.5	526
(14.05)	(10.64)	(23.46)	(22.57)	(20.7)

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