

# Datasheet

## Sentinel Command Workstation



**The Sentinel Command Workstation is a rack mounted or expeditionary unit used for the control and user interface for a single or multi-headed Sentinel Intruder Detection Sonar system.**

The workstation comprises a 2U-high System Router Unit and a 1U-high Control & Display Processor Unit. The expeditionary system includes a slide-out screen and keyboard. The images above show the expeditionary version.

Sonar data, track data and system status are received via the System Router from each Sonar Processor in the Sentinel system. The C&D Processor combines the data from the sonars and formats it into a tactical-style display. Raw data images from all sonars are overlaid on either a calibrated background image (aerial photograph or chart) or an ENC chart database. Tracks are assigned colours and symbols based on alert-state and classification and displayed over the sonar and background images.

A graphical user interface is provided, along with a mouse and keyboard, to allow the operator to configure the system, control its operation and view further detail

on a selected track.

The Sentinel Control & Display software also provides an interface to an external Command & Control (C2) system for sonar images, tracks and status data, and allows remote control by the C2.

The C&D Processor, like the units in the Sonar Processors, is configured at runtime by a coded dongle and, in keeping with the rest of the system, is fully interchangeable with any other unit in the system.

Power for the C&D is supplied via the System Router unit, and the C&D software is configured to auto-start on power-up.

The slide-out monitor in the expeditionary system is a ruggedized LCD panel, with display resolution 1920 x 1080. It is a full marine grade display with high viewing angles and high contrast even in high ambient light conditions.

In rack mounted fixed installations, the C&D outputs video to a single monitor in a one-head system, and dual monitors in a multi-head system. Remote monitors, keyboard and mouse may be connected via a KVM switch.

Sentinel is a Wavefront product developed, commercialised, and sold in partnership with Sonardyne, a Covelya Group company

- Ruggedised COTS-based Processors
- CWS contains 1 Processor Unit (590-0007) and 1 System Router (62-0066)
- Standard 19"/482.6 mm IEC 60297 Rack Mounting
- Performs system control and provides user interface
- Exports tracks, status and images to external Command & Control
- Expeditionary system includes marine grade LCD panel and keyboard
- Auto-ranging power input, 115/230V AC

# Specifications

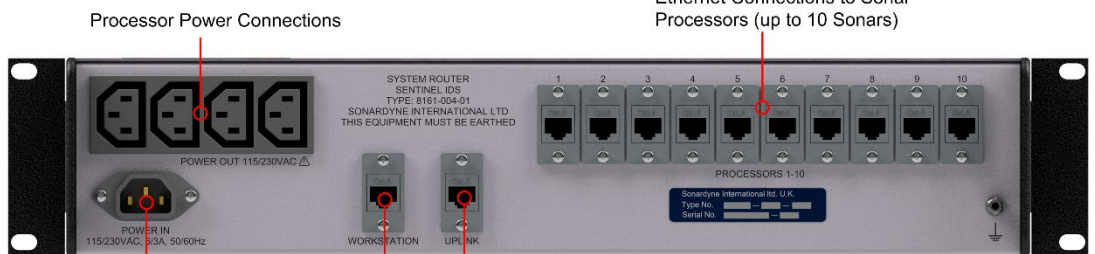
## Sentinel Command Workstation

System Router  
Front



System Power On Indicator

System Router  
Rear



Mains Input

Ethernet to C&D

Ethernet to External C2

C&D Processor  
Front



Processor Power On

C&D Processor  
Rear



Input Power (from System Router)

Ethernet to System Router

Video Out to Monitors

### Type 8161-003-01

Power Supply		Auto-switching 115/230 V AC, 6/3 A, 60/50 Hz
Environmental Specifications	Operating	0 to 40°C (32 to 104°F)
	Storage	-10 to 70°C (14 to 158°F)
	Relative Humidity	20-80% (non-condensing)
	Shock	10 G acceleration peak to peak 5-17 Hz, 0.1" double amplitude displacement 17-640 Hz, 1.5 G acceleration peak to peak
Dimensions in expeditionary case (Length x Width x Height)		772 x 563 x 307 mm (15.1 x 18.9 x 3.4")

Specifications subject to change without notice

For further information, contact us at

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