

# Compliance with Panama Canal's New Safety Regulations

Fixed Pilot Unit | SAL SPU-100

**HOSTMOST**  
SINCE 1989

Compliant with stringent requirements from the **Panama Canal Authority (ACP)**, the **SAL SPU-100** revolutionizes high-precision navigation, ensuring **safe and efficient** canal transit.



**SAL NAVIGATION**



The SPU-100 is an essential tool for advanced pilotage across numerous ports. Following the recent issuance of Advisory to Shipping No. A-32-2022, the ACP has outlined a new positioning system requirement for Neopanamax vessels starting from October 2023.

## Introducing SAL SPU-100: A Breakthrough in Precise Navigation

### Capabilities

- **GNSS Positioning and Inertial Components:**  
State-of-the-art, robustly tested under real jamming scenarios.
- **Dependable Performance:**  
Ensures reliability in challenging conditions.
- **Navigational Data:**  
Independent data on positioning, speeds, heading, and Rate of Turn  
Optimal accuracy and reliability, surpassing standard bridge instrumentation.
- **Data Dissemination:**  
Via WLAN, optionally accessible through the ship's wired network.
- **Backup Battery:**  
Ensures uninterrupted operation during power outages.

### Key Advantages

- **Augments safety and efficiency during maneuvers in confined waters.**
- **Offers pilots and ship crew the most accurate navigational data.**
- **Tested and certified for performance under real signal jamming and spoofing conditions.**

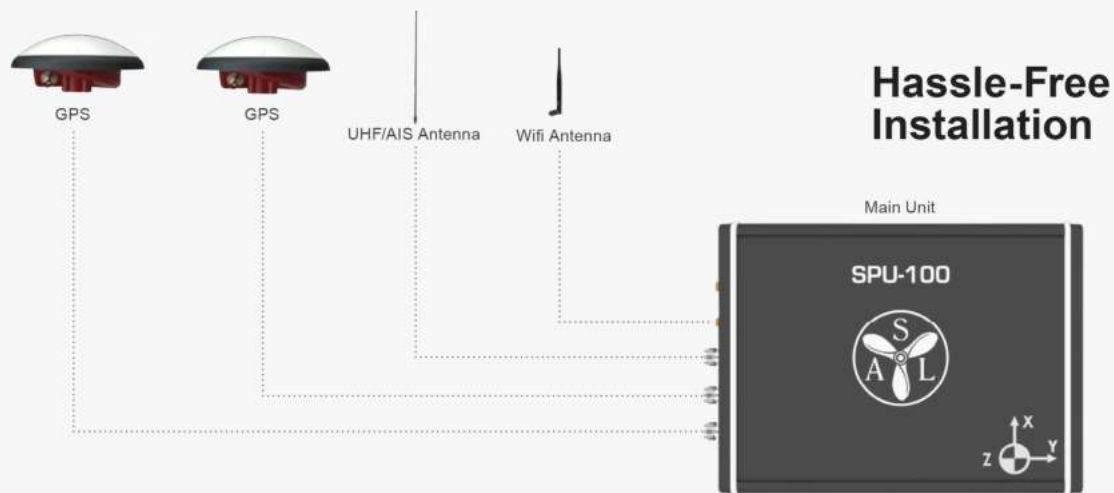
Hostmost Group is the distributor of SAL Navigation SPU-100

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## SPU-100 System Overview



### Key Figures

<b>GNSS</b>	GPS, QZSS, Galileo, GLONASS, BeiDou
<b>IMU</b>	Ultra low noise gyro (0.08°/√hr)
<b>UHF Radio</b>	GMSK, Trimtalk 450S (configurable)
<b>AIS Receiver</b>	Dual frequency: 161.975 & 162.025 MHz
<b>WIFI</b>	IEEE 802.11 a/b/g/n
<b>Battery Back-up</b>	> 7.5 hours of operation
<b>Data output</b>	GGA, VTG, HDT, ROT, GSA, GSV, VDM
<b>Operating Temperature</b>	-20°C to +70°C

### SPU-100 Compatibility

SafePilot
Qastor
OrcaX
SEAIq
PilotPro

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## SPU-100 System Components

### Standard



Height: 82 mm  
Width: 143 mm  
Depth: 200 mm  
Weight: 2.5 kg

#### Main Unit

The SPU-100 boasts state-of-the-art GNSS positioning and inertial components, robustly tested under real GNSS jamming and spoofing signal scenarios, ensuring dependable performance under challenging conditions.



Height: 79 mm  
Diameter: 170 mm  
Weight: 0.5 kg

#### GNSS Antenna

Full GNSS Precision Antenna. GPS/QZSS-L1/L2/L5, QZSS-L6, GLONASS-G1/G2/G3, Galileo-E1/E5a/E5b/E6, BeiDou-B1/B2/B2a/B3, NavIC-L5.



Height: 1260 mm  
Diameter: 50 mm  
Weight: 0.7 kg

#### UHF / AIS Antenna

UHF/AIS Fibreglass Antenna



Height: 200 mm  
Diameter: 15 mm  
Weight: 0.03 kg

#### WIFI Antenna

High gain wifi antenna.



Length: 35 meter  
Weight: 7.3 kg

#### Antenna Cable

35m High gain antenna RF cable both end pre-made antenna connectors

### Optional



Height: 144 mm  
Width: 48 mm  
Depth: 29 mm  
Weight: 0.2 kg

#### 4G Antenna

Enables data transfer to shore.



Length: 45 meter  
Weight: 9.8 kg

#### Antenna Cable

45m High gain antenna RF cable both end pre-made antenna connectors

## Warranty

All SAL Navigation AB products are warranted against factory defects in materials and/or workmanship during the warranty period. Contact our sales team at the email below for SAL SPU-100 warranty details.

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HOSTMOSTGROUP.COM | FOR ENQUIRIES: GLOBALSERVICES@HOSTMOSTGROUP.COM