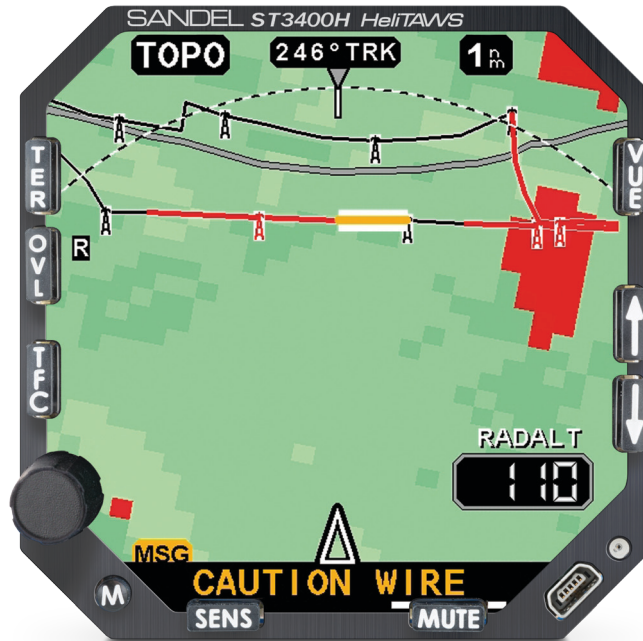Sandel ST3400H HeliTAWS® is the industry's first multihazard avoidance system for helicopters that alerts against wires, terrain, and obstacles, utilizing WireWatch®—advance defense against wire strikes. It further enhances the operational awareness in the cockpit by helping helicopter pilots avoid transmission lines whether they are powered on or off.

Incorporating Sandel's proprietary TruAlert® technology, HeliTAWS enables pilots to take off, cruise, hover and land at off-airport locations without triggering nuisance alerts. Exceeding the TSO-C194 compliance, HeliTAWS includes an easy-to-interpret, color, high-resolution display for 3D terrain, obstacles, flight plan, traffic overlay, TAS/TCAS display interface, Radalt Decent Altitude Callouts along with MIL-STD-3009 On-Demand NVIS compatibility.
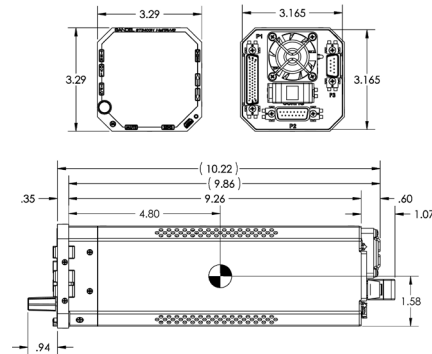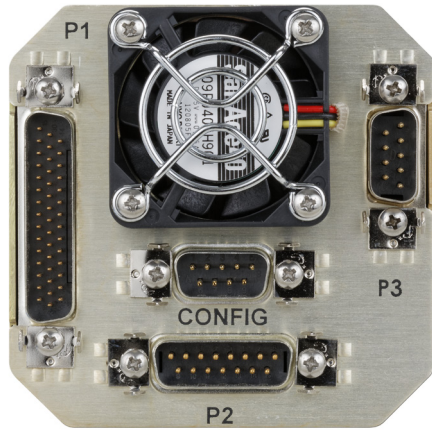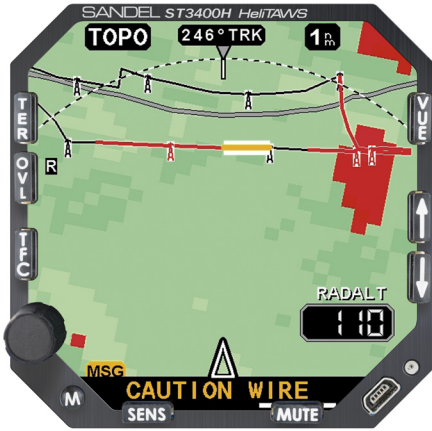
See what's next

SANDEL®

ST3400H HeliTAWS®

CFIT and wire strikes are a big problem. Sandel has a simple solution — HeliTAWS®.

Only HeliTAWS from Sandel has WireWatch®, our exclusive database system for transmission lines, and TruAlert®, that eliminates annoying false alarms from cruise right on down to the ground.

Display	Sandel LCD projection engine; LED-Backlight
Daylight Mode	Sunlight Readable
NVIS Mode	Class B compatible per MIL-STD-3009 (optional)
Weight	2.7 lb (1.2 kg)
Dimensions	Body: 9.86 in deep (25.04 cm) from rear of bezel (excluding Positronics 'D' connectors)
	Body: 3.165 in wide x 3.165 in tall (8.04 cm x 8.04 cm)
	Bezel: 3.285 in wide x 3.285 in tall (8.34 cm x 8.34 cm)
Power Requirements	22-33 VDC, 40 watts maximum
Cooling Requirements	Internal fan, forced air not required
Operating Environment	-20 °C to +70 °C +55,000 ft max altitude
Mounting	Standard 3-ATI with clamp
Certification Basis	TSO C194 Helicopter Terrain Awareness and Warning System
	TSO C113 Airborne Multipurpose Electronic Displays
	TSO C87 Airborne Low-range Radio Altimeter
	TSO C118 TCAS 1
	RTCA/DO-178B Software Level C
	RTCA/DO-254 Hardware Level C
	RTCA/DO-160F Env. Cat: [A3F1Z]BBB[UU2]XXXXXXZZAZ[ZW][WW]M[A3G33]XXAX
Warranty	2 years
Databases	Terrain: 3 arc-second horizontal resolution (300 ft. grid), 1 foot vertical resolution
	Obstacle: 1 foot vertical resolution
	Airports
	Transmission Lines: Optional. Contact Sandel for region availability.
Required Input	
GPS	ARINC 429 or RS-232 (TSO C145 or C146 receiver required)
Optional Inputs	
Heading	ARINC 429 or XYZ Synchro (installation option: for enhanced display features)
VOR/Localizer	ARINC 429 or Low-level analog (installation option: for GPWS ILS alerting)
Glide Slope	ARINC 429 or Low-level analog (installation option: for GPWS ILS alerting)
Radar Altimeter	ARINC 429 or Analog (installation option: required for GPWS alerting)
Air Data Computer	ARINC 429 or Analog (installation option: improves altitude accuracy)
Traffic	ARINC 429 (installation option: for traffic display overlay)
Outputs	
Audio	500 ohm 25/150mw line-level and 4-8 ohm speaker
Discretes	GND Discretes for Caution, Warning, TAWS Inhibit, Mute, Sensitivity/Off-Airport, Radalt MINS, Glide Slope Override
Discrete Inputs	Remote Sensitivity/TAWS Inhibit, Mute, Glide Slope Override, NVIS
Display Features	
Map Display	High-resolution map depicting GPS flight plan, terrain, obstacles, airports, and traffic
Terrain Display Modes	Map ranges from 0.5nm to 20nm full scale
	Relative Mode (REL): Terrain color coded relative to current helicopter altitude
Radar Altimeter Display	Topographic Mode (TOPO): Terrain shown in topographic color coding
	Digital radar altitude. Pilot adjustable MINS setting
Alerting Modes	
TAWS	Forward Looking Terrain Avoidance
GPWS	Mode 1: Excessive Rate of Descent
	Mode 3: Altitude Loss After Takeoff or Missed Approach
	Mode 4: Flight Into Terrain When Not in Landing Configuration
	Mode 5: Excessive Downward Glide Slope Deviation
	Mode 6: Altitude Callouts

Dimensions and specifications subject to change without notice.

See what's next

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