ST3400H HeliTAWS



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.



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CFIT and wire strikes are a big problem. Display Sandel LCD projection engine; LED-Backlight Daylight Mode Sunlight Readable Sandel has a simple solution — HeliTAWS°. NVIS Mode Class B compatible per MIL-STD-3009 (optional) 2.7 lb (1.2 kg) Weight Only HeliTAWS from Sandel has Dimensions Body: 9.86 in deep (25.04 cm) from rear of bezel WireWatch[°], our exclusive database system (excluding Positronics 'D' connectors) for transmission lines, and TruAlert^{*}, Body: 3.165 in wide x 3.165 in tall (8.04 cm x 8.04 cm) that eliminates annoying false alarms from Bezel: 3.285 in wide x 3.285 in tall (8.34 cm x 8.34 cm) cruise right on down to the ground. Power 22-33 VDC, 40 watts maximum Requirements Cooling Internal fan, forced air not required Requirements NDEL ST3400H Helii Operating -20 °C to +70 °C 246°TRK τορο **1** m Environment +55,000 ft max altitude Mounting Standard 3-ATI with clamp **Certification Basis** TSO C194 Helicopter Terrain Awareness and Warning System 0 4 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]XXXXXZZAZ[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) P.3 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-P2 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 Topographic Mode (TOPO): Terrain shown in topographic color coding 9.86 Radar Altimeter Display 9.26 4.80 1.07 Digital radar altitude. Pilot adjustable MINS setting ------**Alerting Modes** Forward Looking Terrain Avoidance TAWS ΠT 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.

