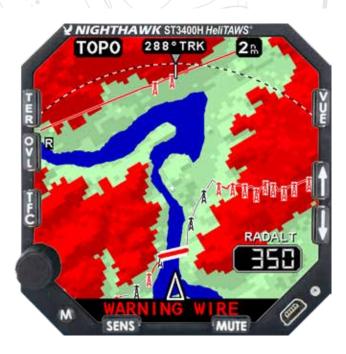
ST3400H HeliTAWS®



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 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, ADS-B in, Radalt Decent Altitude Callouts along with MIL-STD-3009 On-Demand NVIS compatibility.

The ST3400H Incorporates automatic or manual engagement of Offshore HTAWS modes per RTCA/DO-376, improving safety margins for offshore helicopter operations.



Fly Safe

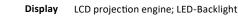
ST3400H HeliTAWS

CFIT and wire strikes are a big problem with a simple solution — HeliTAWS*.

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







Davlight 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 -20 °C to +70 °C

Environment +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

TSO C195b ADS-B In Traffic RTCA/DO-376 Offshore HTAWS 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: Gridless, 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)

ARINC 429/RS-422 (installation option: for traffic display overlay)

Optional Inputs

Heading VOR/Localizer Glide Slope Radar Altimeter

Air Data Computer

Traffic

ARINC 429 or XYZ Synchro (installation option: for enhanced display features) ARINC 429 or Low-level analog (installation option: for GPWS ILS alerting) ARINC 429 or Low-level analog (installation option: for GPWS ILS alerting) ARINC 429 or Analog (installation option: required for GPWS alerting) ARINC 429 or Analog (installation option: improves altitude accuracy)

Outputs

Audio Discretes 500 ohm 25/150mw line-level and 4-8 ohm speaker

GND Discretes for Caution, Warning, TAWS Inhibit, Mute, Sensitivity/Off-Airport, Radalt MINS, Glide Slope Override, Offshore Inhibit (Auto-Rotate).

Discrete Inputs

Remote Sensitivity/TAWS Inhibit, Mute, Glide Slope Override, NVIS, Gear Input

and Back Course.

Display Features

Map Display

High-resolution map depicting GPS flight plan, terrain, Point Obstacles and

Power line Wires, 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 Digital radar altitude. Pilot adjustable MINS setting. Aural Altitude Callouts.

Radar Altimeter Display

Alerting Modes TAWS

Terrain, Obstacle, and Wire FLTA and RRTC

Terrain and Obstacle ITI

GPWS Mode 1: Excessive Rate of Descent

Mode 3: Altitude Loss After Takeoff or Missed Approach

Mode 3a/3b: Loss of Altitude/Air Speed During Takeoff or Missed Approach

Mode 4: Flight into Terrain When Not in Landing Configuration

Mode 4a/4b: Flight into Terrain When Not In/In Landing Configuration

Mode 5: Excessive Downward Glide Slope Deviation

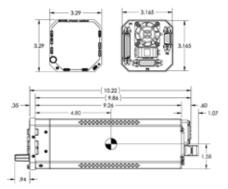
Mode 6: Altitude Callouts



Fly Safe.







FLTA - Forward Looking Terrain Avoidance **RTC - Reduced Required Terrain Clearance** ITI - Imminent Terrain Impact

Dimensions and specifications subject to change without notice