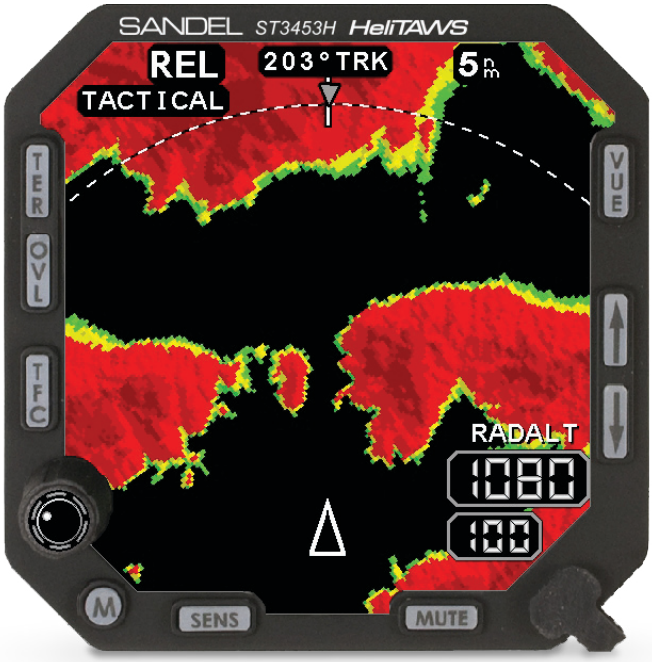
ST3453H HeliTAWS®



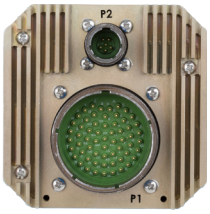
Designed for broad military applicability, the innovative Sandel ST3453H HeliTAWS® is the only multihazard aviodance system built for military helicopters.

The compact and affordable HeliTAWS® embraces situational awareness in low visibility conditions and low altitude flying, day or night. It's TruAlert® technology eliminiates nuisance alerts and ensures accuracy at all operational altitudes. Incorporating an integrated, ultra-bright 3D terrain display HeliTAWS® provides a straightforward replacement for existing Radalt indicators, saving on installation time and cost.

ST3453H HeliTAWS®

Sandel ST3453H HeliTAWS, chosen by Sikorsky for the S-70i Black Hawk, is the superior HTAWS solution specifically engineered for military helicopters. The self-contained unit comes fully loaded and listed under one part number for ease of ordering and installation.

- MIL-STD-3009 NVIS Compatible
- MIL-STD-810G Compatible
- MIL-STD-1553 Bus Interface



Warranty	2 Years
Database	Terrain: 3 arc-second horizontal resolution (300 ft. grid), 1 foot vertical resolution, Point Obstacles, Line Obstacles (including transmission lines), Airports, Highways, Coast Lines, Lakes, and Rivers
I/O Compability	Compatible with any source without external protocol converter
Configuration Management	Configuration is controlled by software Configuration retained by Configuration Module (aircraft resident)

Display	
Type	LCD projection with LED Backlight
Size	2.9" x 2.9" min display area
Daylight Mode	Sunlight Readable
NVIS Mode	Class B compatible per MIL-STD-3009
Display Features	
Map	High-resolution map depicting GPS flight plan, terrain, obstacles, transmission lines, airports, traffic, and highways
Terrain	Map ranges from 0.5nm to 20nm full scale Relative Mode (REL): Terrain color coded relative to current helicopter altitude Topographic Mode (TOPO) with terrain above in RED
Radalt	Digital Radar Altitude display with pilot adjustable MINS setting
Alerting	
Technology	GPS/Database
FLTA	Terrain Obstacles Wires (including Transmission Lines)
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
Radalt	Selectable Altitude Callouts down to 10' AGL. MINS alert
Bank	Excessive Angle (optional)
Dimensions	
Length	7.8" in from rear of bezel (excluding connectors)
Body	3.17 in x 3.17 in
Bezel	3.29 in x 3.29 in
Power Requirements	22-33 VDC, 40 watts maximum
Cooling Requirements	None
Operating Environment	-40° C to +55° C +55,000 ft. max. altitude
Weight	3.0 lbs (zero weight penalty if used to replace Radalt indicator)
Mounting	Standard 3-ATI clamp
Certification Basis	TSO C194, TSO C113, TSO C87, TSO C118 TCAS 1, RTCA/DO-178B Software Level C, RTCA/DO-254 Hardware Level C, RTCA/DO-160F Environment Cat: [A2F1Z]BBBUXXXXXXZZAZ[ZW][YY]M[A3G33]XXAX MIL-STD-810G: Altitude, Temperature, Rain, Humidity, Fungus, Sand, Dust, Explosive Atmosphere, Acceleration, Vibration, Shock/Crash Safety/Bench Handling, Electromagnetic Environment, Electrical Power
Inputs	
GPS	ARINC 429, RS-232, MIL-STD-1553B (Note: requires a high resolution GPS.)
Heading	ARINC 429, XYZ Synchro, MIL-STD-1553B
VOR/Localizer	ARINC 429, Low-level analog, MIL-STD-1553B
Glide Slope	ARINC 429, Low-level analog, MIL-STD-1553B
Radar Altimeter	ARINC 429, Analog, MIL-STD-1553B
Pressure Alt.	ARINC 429, Analog, MIL-STD-1553B
Traffic	ARINC 429 (for display of traffic)
Discretes	External Switch Inputs: Sens/Inhibit; Mute; Glide Slope Override
Outputs	
Audio	500 ohm 125mw
Discretes	Caution, Warning, Inhibit, Mute, Sensitivity/Off-Airport, Radalt MINS, Glide Slope Override
DataBus	
Data Port	100Mbs Ethernet (optional)

Dimensions and specifications subject to change without notice.