

HELISURE™ HELICOPTER TERRAIN AWARENESS AND WARNING SYSTEM (H-TAWS)

Delivering superior terrain and obstacle awareness.



**Rockwell  
Collins**

Building trust every day

## Fly smarter in difficult conditions.

Whether it is emergency medical services (EMS), law enforcement, search and rescue (SAR), or any number of other demanding missions, the very nature of their typical flight environment means that helicopters must operate in close proximity to hazardous terrain and obstacles.

Takeoffs and landings in restricted areas and operation at low altitudes, often in limited visibility, put these flights at high risk of wire or tower strikes and controlled flight into terrain (CFIT) accidents.

Because of the high CFIT incident rates, the FAA has issued a Notice of Proposed Rule Making (NPRM) that proposes mandating the use of the helicopter terrain awareness and warning system (H-TAWS) by helicopter EMS (H-EMS) operators.

With the ability to graphically depict terrain and known obstacles, Rockwell Collins H-TAWS gives pilots advanced warning about hazardous terrain and obstacles along their flight path and altitude.

The resolution of our H-TAWS solution is as good as 3 arc second, and when integrated into our large format displays is Night Vision Goggle (NVG) compatible, a key requirement for parapublic or military operators.

H-TAWS is part of the Rockwell Collins HeliSure™ product family – the only complete helicopter portfolio offering increased situational awareness through a unique combination of integrated 3D visualization, displays, sensors and database components.



### Enhancing terrain awareness increases safety.

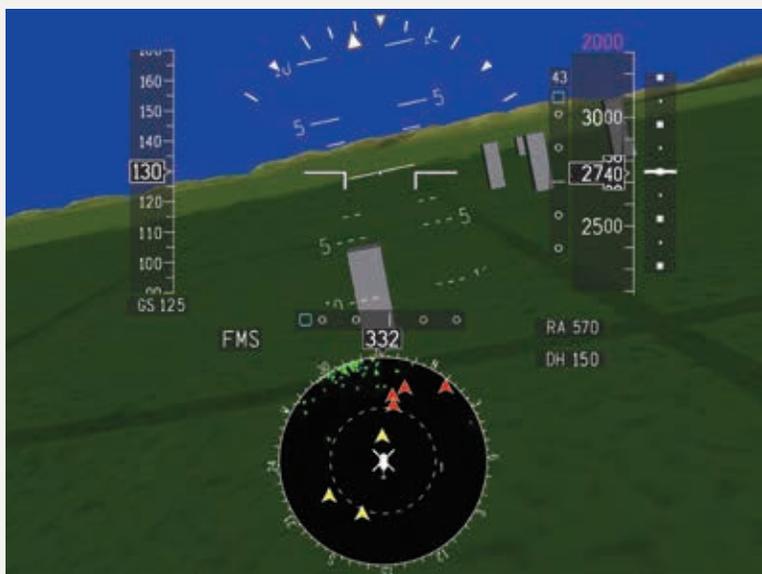
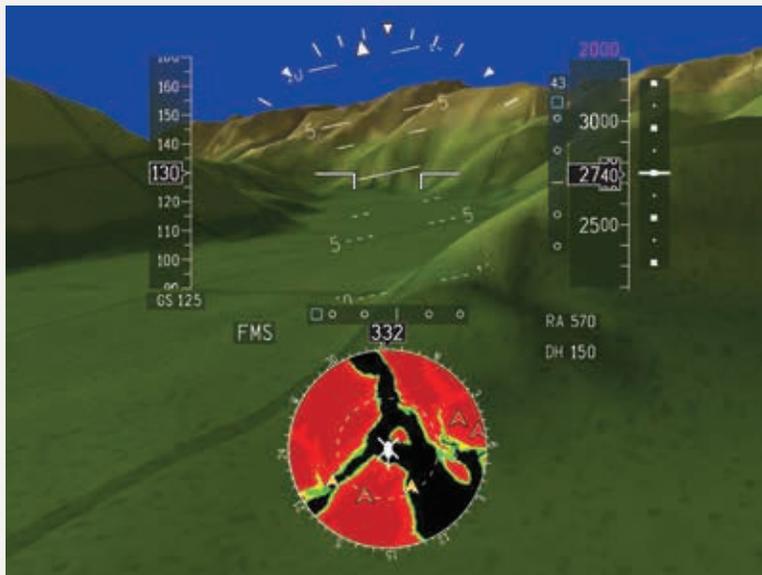
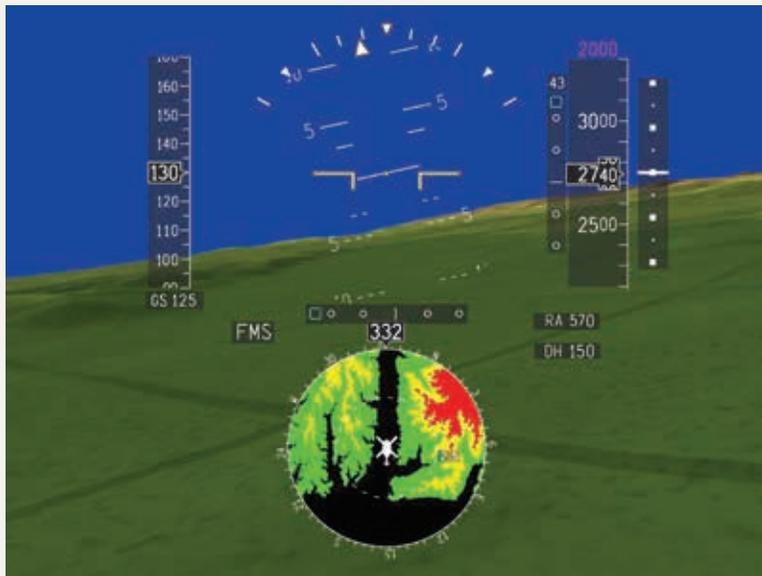
When Rockwell Collins set out to introduce an H-TAWS solution, we were committed to providing a next-generation, fully TSO'd, Class A, terrain awareness and warning system. That's why we chose Sandel's HeliTAWs® technology.

When integrated with our large area displays (and in the future our Pro Line Fusion® displays), Sandel's advanced, flight-proven algorithms are combined with our high-integrity databases give helicopter flight crews the best available graphical depiction of terrain and obstacles – even in darkness and other low-visibility conditions.



Another advantage is that because the Sandel software is integrated directly into our display hardware, there are no external processor boxes to install. That saves weight and space.

The result is that pilots using Rockwell Collins H-TAWS-equipped helicopters fly with greater situational awareness. And the more you know, the safer you can fly.



## TruAlert® minimizes false alerts.

To eliminate false alert problems, our H-TAWS solution features Sandel's TruAlert® adaptive algorithms. When combined with our high-resolution terrain and obstacle database, the flight-proven TruAlert technology allows accurate "look ahead" alerts and warnings for the aircrew, ensuring nuisance-free protection in demanding missions.

Rockwell Collins H-TAWS also features the industry leading, three arc-second terrain display. When combined with our large-format LCDs, the system gives pilots the best possible view of terrain and obstacles.

To help further increase situational awareness, the Rockwell Collins H-TAWS solution provides both high-resolution visual and concise aural alerts and warnings. So even when your attention is focused outside the aircraft you will not miss valuable safety information.

## Multiple awareness solutions. One proven supplier.

Impressive as it is, our H-TAWS is just one of Rockwell Collins' expanding array of integrated helicopter safety solutions.

Depending on the aircraft's installed equipment, the H-TAWS information can be integrated with 3D Synthetic Vision System (SVS) and complement Traffic Collision Avoidance System (TCAS), weather radar and obstacle warning system (OWS) in a full situational awareness picture.

And because our enhanced awareness systems are all based on an open architecture, software upgrades are easily accomplished to ensure that you are always flying with the most advanced capabilities available.

So whether you are flying in hazardous terrain, areas highly populated with wires and other vertical obstacles, or simply low visibility conditions, you can trust Rockwell Collins H-TAWS, along with our other new-generation awareness enhancing systems to help you complete every mission.

### Building trust every day.

Rockwell Collins delivers smart communication and aviation electronic solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

### For more information, contact:

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