Virtual vision. Better decisions.

Although Garmin synthetic vision is not intended to replace traditional attitude and directional cues as an instrument flight reference, it clearly does augment the pilot’s view of the flight-path and display departures from that path. By giving a virtual visual frame of reference, SVT allows you to mentally “see” the flight-path and deviations from it—clearly showing with amber or red overlays those areas where potential flight-into-terrain risks exist. What’s more, any towers or obstacles that may encroach upon the flight-path are also highlighted and clearly displayed with height-appropriate symbology.

Likewise, for help in spotting airborne traffic, Garmin SVT shows TCAS/TAS/TIS targets in 3-D perspective, so you can visually gauge how high and how close they are. The familiar color- and shape-cued TCAS symbology grows larger as it gets nearer—making traffic conflicts easier to see and identify.

Terrain, traffic, towers, obstacles, flight plan legs, approaches, runways: The integrated 3-D perspective view makes aeronautical orientation so much easier and more intuitive. And with SVT’s graphical “pathway in the sky” feature, you’ll always know exactly where and how to intercept the next leg of your flight-plan.

No wonder Garmin SVT is the choice for today’s most forward-looking aircraft and their owners. Could any decision be simpler? Could any technology make vintage “steam gauge” instruments look even more obsolete? With SVT, you’re following a seamless and clearly defined route to the future. All fully integrated. All delivered from one manufacturer. And all supported by the confidence and peace-of-mind that comes with our award-winning Garmin Product Support.

See the picture? Garmin SVT. It could be the most useful, safety-enhancing visual display technology you’ve ever seen. From our advanced Flight-Deck. No doubt, you’ll want to learn more, soon.

To find out more, contact your Garmin representative for a demo. Or visit our website at www.garmin.com.

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Follow the leader.
Virtual reality meets situational awareness.

Pathways in the sky
Rectangular pathway "windows" on the display help pilots visualize and follow their intended route of flight. Guidelines in each of the pathway windows point the direction of the active flight plan leg.

Watch for approaching traffic.
Using familiar TCAS/TAS/TIS symbology in a three-dimensional format, Garmin SVT makes it easier to spot moving traffic. You can use them directly to drive your altitude. And if the traffic gets closer, the symbols get larger.

Identifying runway.
When flying into an unfamiliar airport, SVT helps guide the approach. Aprons are shown with identifier signs. Runway surfaces, numbers and thresholds are clearly depicted. With SVT, the destination runway in your active flight plan is easier to visualize than normal.

Obstacle alerting.
Garmin SVT is ms10g to motor pilots an intuitive way to visualize the presence of obstacles in the sky. Through the windows in sequence. A softkey on the PFD bezel lets pilots select or remove the pathway guidance feature, as desired.

Persistence pays off.
Intuitive safety in an unusual altitude situation can be tough on pilots and airplanes. But with Garmin SVT, a "persistent" strip of color in the display shows "when you were in the sky" – so it's all in situational awareness.

Seeing real.
Terrain alerting with Garmin SVT is not a distraction. Instead, conflict areas are indicated by a color overlay on the topography. Alert for caution. And for knowing.

It’s like taking the blinders off.
The vision may be synthetic. But the benefits are absolutely real.

Garmin SVT turns a flat-panel primary flight display (PFD) into something visually much richer and deeper. The "virtual reality" presentation looks so realistic and lifelike, it’s almost believable. In fact, it’s like taking a full-color replica of your "outside view" view from the cockpit in a single view.

Seamlessly integrated with all standard flight data, airport, climb rates, altitude and course/heading information, Garmin SVT creates a graphically modeled 3-D topographic landscape from the avionics system’s terrain-alerting database. So, instead of looking at the flight instruments, one has a sense of looking through them – to see what lies beyond the nose of the aircraft.

With SVT, the traditional flat-screen terrain presentation in the PFD is replaced by a live, three-dimensional view of your surrounding terrain. Features such as the distance, land, water and any visual techniques used to depict the terrain and obstacles – similar to those used on most standard charts or MFD moving map displays. Airports, obstacles and airborne traffic are shown in relative position to the aircraft. And a zero-pitch line, or level-flight indicator, is drawn completely across the display to represent the horizontal horizon. The zero-pitch line will vary automatically in alignment with the terrain. Horizontal positions of the runway layout are clearly depicted.

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Pilots have the equivalent of a "3-D" window into the terrain. Airports, obstacles and traffic are shown in relative position to the aircraft. And a zero-pitch line, or level-flight indicator, is drawn completely across the display to represent the horizontal horizon. The zero-pitch line will vary automatically in alignment with the terrain. Horizontal positions of the runway layout are clearly depicted.

Which way is the runway?
Flying into an unfamiliar airport can create a sense of disorientation. With Garmin SVT, flight displays in the system's navigation database are superimposed on the SVT terrain display – giving pilots a constant visual representation of true runway and approach lines in relation to the surrounding terrain. Actions within the PFD of the aircraft's position are then identified with variable-tinted rectangles on the SVT display. The terrain, then, acts as an additional cue. The display is indicated by the window – that appears around the edges of the runway layout on your flight plan display – just to let you know that you're lined up for the right approach.

Find your pathway in the sky.
In addition to identifying airports and showing runway layout in graphical perspective, Garmin SVT helps simplify orientation as well. It can create a three-dimensional "pathway" view of your ground track and flight plan – including reference to runway, terminal procedures and VOR/DME vertical approaches. - and it's the ultimate in the accuracy of view splashed "windows" on the PFD screen. These windows vary in size to depict the flight path in perspective, making it easier to visualize course, runway, and approach lines, etc. Paths highlighted show the recommended visual approach.

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