



*Choosing a
Traffic Advisory System
for your G.A. Aircraft*



Choosing a Traffic System

- **TAS - Traffic Advisory System (TAS)**
 - All TAS systems actively Interrogates threat aircraft transponders for reply
 - TAS is not dependent on “third party interrogation”
 - TAS provides “real-time” collision alerts
 - TAS systems meet FAA TSO C147 specifications
 - TAS provides up to a 30-second warning at up to 1200 knot closure - (same as TCAS I)



Avidyne TAS600-Series

Dual antenna system is smallest, lightest, lowest price, best performing.



Garmin GTS8X0

Garmin 820/850 uses an external power amp that adds weight and increases installation costs and requires Garmin-branded XPDR.*



L-3 Skywatch 497 & 899

Single Antenna systems. ADS-B upgrade has been announced for SKY899HP/A models.



Honeywell KTA870

Cost prohibitive for light GA. No upgrade to ADS-B has been announced.

*According to Garmin GTS8XX AML STC Installation Manual 190-00993-05 Rev.3 Oct 2010



TAS600 System Components

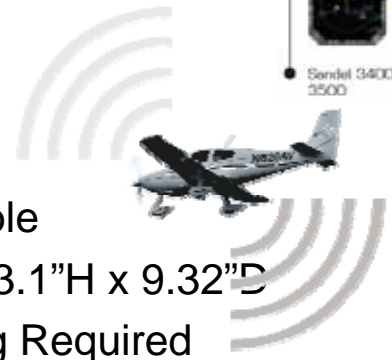


Most Traffic Display options



Processor

- Tracks 50 Aircraft
- Smallest & Lightest TAS Processor Available
- Weight 6.8 lbs. and Dimensions 7.25"W x 3.1"H x 9.32"D
- Sealed Processor and No External Cooling Required
- Qty. 4 – RS-232 Ports to allow multiple display interfaces
- ARINC 429 output for multiple display interfaces



TAS600 System Components

Transponder Coupler



TAS Processor

Top & Bottom Antennas



Traffic Display



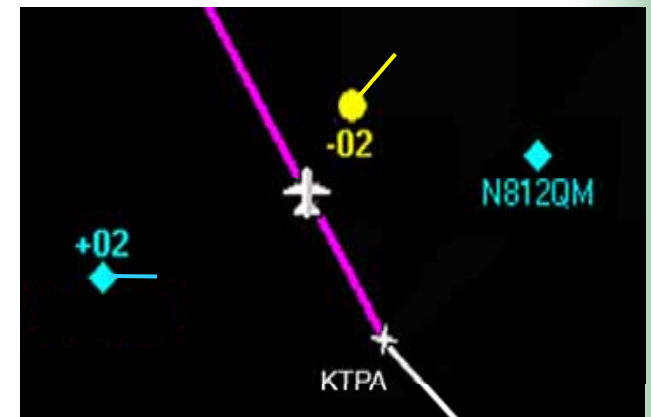
Top & Bottom Antennas

- Patented – Directional 4-Element Technology
- Top and Bottom Antennas – “Like the big guys”
- All Airline TCAS systems have dual antennas
- Reduces shadowing & improves tracking compared to single antenna systems



TAS600A Series w/ ADS-B In

- Upgrade for TAS600 Active Traffic Systems to accept “ADS-B In”
 - Provides composite display of *ADS-B* traffic as well as real-time on-board TAS traffic on currently-compatible displays
 - Uses 1090MHz Band
 - Meets dual-antenna diversity requirement as defined by DO-260B
 - Complements “ADS-B Out” handled by compatible transponder & WAAS GPS
- We are accepting no-obligation reservations now to lock in \$2,000 upgrade cost at: <http://www.avidyne.com/landing/tas600-adsb.asp>



Dual-Antenna TAS600 Series
(TAS600/605/615/620)

Provides precision and extended range of ADS-B with the added protection of independent active-traffic system.



Traffic System Comparison

| | Avidyne | Avidyne | Avidyne | Avidyne | Skywatch® | Skywatch® | Honeywell | Garmin | Garmin | Garmin |
|---|--|---------------------|--------------------------|---------------------|-----------------|--------------------|-----------------|-------------------------|-------------------------|-------------------------|
| | TAS600 | TAS605 | TAS615 | TAS620 | 497 | HP | KTA 870 | GTA800 | GTA820 | GTA850 |
| Suggested List Price | \$8,490 | \$10,990 | \$14,990 | \$20,990 | \$15,990 | \$20,990 | \$24,690 | \$9,995 | \$19,995 | \$23,495 |
| Active Interrogation | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Voice Annunciation | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Audible Position Alerting™ or equivalent | Yes Standard | Yes Standard | Yes Standard | Yes Standard | Optional VIP | Optional VIP | No | Yes | Yes | Yes |
| Top and Bottom Directional Antennas | Yes | Yes | Yes | Yes | No | No | Yes | Optional (+ \$1,085) | Optional (+ \$1,085) | Optional (+ \$1,085) |
| Altitude Alerting | Yes w/ATD150 | Yes w/ATD150 | Yes w/ATD150 | Yes w/ATD150 | No | No | No | No | No | No |
| Range | 7nm | 13nm | 17nm | 21nm | 11 nm | 35 nm | 40 nm | 12nm | 40nm | 40nm |
| Number of Targets Displayed | 30 using Arinc 429, 9 using RS-232 | | | | 10 | 10 | 30 | 30 | 30 | 30 |
| Number of Targets Tracked | 50 | 50 | 50 | 50 | 30 | 35 | 60 | 60 | 60 | 60 |
| Ground Mode | Yes | Yes | Yes | Yes | No | No | No | Yes | Yes | Yes |
| Approach Mode | Yes w/ATD or MHD | Yes w/ATD or MHD | Yes w/ATD or MHD | Yes w/ATD or MHD | No | No | No | No | No | No |
| Yoke Mount Mute | Yes | Yes | Yes | Yes | No | No | No | Yes | Yes | Yes |
| N-Number Capability | Yes | Yes | Yes | Yes | No | No | No | ADS-B Targets Only | ADS-B Targets Only | ADS-B Targets Only |
| Target Transponder Ident Squawk | Yes | Yes | Yes | Yes | No | No | No | No | No | No |
| ADS-B Capable | Yes Upgradeable | Yes Upgradeable | Yes Upgradeable | Yes Upgradeable | No | Yes Upgradeable | No | Yes | Yes | Yes |
| System Weight | TAS600 is ~40% lighter than 8.71lbs | 8.71lbs | Garmin GTS820 8.71lbs | 8.7lbs | 8.95lbs | 8.95lbs | 15.20 lbs | 12.34lbs | 14.24lbs | 14.24lbs |

Comparison data based on available website & installation manual data and is subject to change.

Key TAS Comparison Points: - Avidyne vs Garmin

Garmin GTS800 Series

Avidyne TAS600 Series

| | |
|--|--|
| Garmin GTS820/850 requires <i>Garmin-brand</i> Mode-S transponder (i.e.GTX330) which may add cost. | TAS600 has no specific requirement or restriction for transponder. |
| Garmin GTS8XX requires <i>Garmin-brand</i> GPS (430/530/480) for ADS-B In, which may add cost. | TAS600 has no specific requirement or restriction for GPS. |
| GTS820/850 requires the GPA65 power amplifier to be installed close to the top antenna. (difficult and costly) | TAS600 Series does not require an external power amplifier. |
| GTS8XX antennas each require 4 coax cables (8 total with dual directional antennas and 12 required on GTS820/850 with power amplifier) | TAS600-Series only requires 2 antenna cables per antenna (4 total) |
| GTS8XX series has no gray code altitude input – requires serial encoder, which means added cost/complexity, weight/ pitot/static test | TAS600-Series accepts standard gray code altitude input |
| GTS8XX series requires extensive configuration using PC program, down to listing the attenuation of each cable. | PC configuration not required with TAS600 Series. |
| GTS800 weighs 12.34 lbs GTS820/850 weighs 14.24lbs.with power amp. | TAS600 Series weighs 8.71 lbs (29.1% lighter) TAS600 Series weighs 8.71 lbs (40.5% lighter) |

Assumes comparison of dual-directional antenna Avidyne's TAS6XX systems against the Garmin's dual-directional antenna GTSXXX offerings.
Data based on Garmin GTS8XX AML STC Installation Manual 190-00993-05 Rev.23 Oct 2010



Avidyne's TAS600-Series - Proven & Experienced

- Cessna Aircraft
 - Cessna 350 & 400
- Cirrus Aircraft
 - SR20 & SR22
- Diamond Aircraft
 - DA20, DA40 & DA42
- Eurocopter
 - EC135's EC145's, and EC155's
- Extra Aircraft
 - EA500 Spirit
- KAI
 - KC-100
- Piper Aircraft
 - PA-46 Matrix
- Baltimore City Police
 - EC120's
- Baltimore County Police
 - AS350's
- LAPD ...Over 10,000 Avidyne Traffic Systems in service.
 - AS350's
- LA County Sheriff
 - AS350's
- California Highway Patrol
 - Cessna 206's & Helicopters
- US Customs & Homeland Security
 - EC120's, AS350's, Blackhawks, C206, C210, King Airs
- Dekalb County - GA
 - AS350's
- Florida Highway Patrol
 - 6-SEP Cessna's & 1 Navajo
- Ohio State Highway Patrol
 - SEP Cessna's & Eurocopters
- Maryland State Police
 - Eurocopter AS365's
- German Border Patrol
 - EC135's EC145's, and EC155's



And many more...

AVIDYNE

Top 4 Reasons to Consider TAS600 Series

• Safety

- The foremost concern when choosing a traffic system for your aircraft.
- Customers want peace of mind and protection for them, their family, their plane
- Active-Surveillance means no dependence on ground-based systems
- Dual antenna systems provide best signal coverage, reduce shadowing

• Ease of Installation

- TAS600 Series are easiest *dual-antenna* TAS systems to install.
- TAS600 Series does not require a separate power amplifier
- TAS600 Series only needs 4 coaxial antenna cables (versus 8 or 12)

• Functionality

- TAS600 Series has most display interface options (RS-232 & ARINC 429)
- Provides N-Reg and Squawk Code read out of Mode S-equipped Targets
- Ground & Approach Modes eliminate nuisance alerts

• Price

- At \$8,490, TAS600 Series offers lowest price point available for active-surveillance traffic.
- Four different price/performance points to match the mission profile of the aircraft
- TAS600 Series are smallest, lightest, and most affordable TAS systems on the market today.

