

Perspective+ Upgrade



Perspective+ Upgrade for SR20/SR22/SR22T



Perspective + Upgrade:

- SR Series G3 and G5 Aircraft (Model Years: 2008 → 2016)
 - SR20
 - SR22
 - SR22T
 - G1000 NXi Upgrade based on:
 - System Software Release 7
 - GIA 63W Support
 - Software Release 7 Includes:
 - 3D SafeTaxi
 - Decent VNAV
 - GDL 60 PlaneSync™ Compatibility
 - H.S.I. Map
 - Runway Occupancy Awareness **
 - Stabilized Approach Advisories
 - Vertical Situation Display
 - VFR Sectionals / IFR Enroute Charts
 - Visual Approaches
- **With Optional GTX 345R*



Perspective + Upgrade:

Standard Equipment:

- Two (2) GDU 1050A / 1250A Displays
 - Higher Resolution
 - Faster Startup
 - Faster DB Updates
- Removed displays Returned to Garmin



Perspective + Upgrade:

Standard Equipment:

- Two (2) GDU 1050A / 1250A
- One (1) GCU 479
 - QWERTY Keypad
 - Removed Keypad Returned to Garmin



Perspective + Upgrade:

Standard Equipment:

- Two (2) GDU 1050A / 1250A
- One (1) GCU 479
- One (1) GMC 707
 - Autopilot Controller
 - Adds Descent VNAV
 - Removed A/P controller returned to Garmin



Perspective + Upgrade:

Standard Equipment:

- Two (2) GDU 1050A / 1250A
- One (1) GCU 479
- One (1) GMC 707

Enablement Exchanges **

- SVT
- Jeppeson Chartview
- Search & Rescue
- TAWS-B
- Video Input (Forward-Vision EVS)

** *Provided at no charge IF original enablement cards are returned to Garmin with removed hardware.*



Perspective + Upgrade:

Standard Equipment:

- Two (2) GDU 1050A / 1250A
- One (1) GCU 479 (QWERTY)
- One (1) GMC 707

Enablement Exchanges:

- SVT
- Jeppeson Chartview
- Search & Rescue
- TAWS-B
- Video Input

Optional Equipment:

- **GI-275 Standby**
 - Heading Sync, Baro Sync, GPS Aiding
 - Amendment to allow GI 275 SVT Planned for Future
- **GSB 15 Dataport & USB Charger**



Perspective + Upgrade:

Standard Equipment:

- Two (2) GDU 1050A / 1250A
- One (1) GCU 479
- One (1) GMC 707

Enablement Exchanges:

- SVT
- Jeppeson Chartview
- Search & Rescue
- TAWS-B
- Video Input

Optional Equipment:

- **GI-275, GSB 15, Pre-Cut Panel**



Perspective + Upgrade:

Standard Equipment:

- Two (2) GDU 1050A / 1250A
- One (1) GCU 479
- One (1) GMC 707

Enablement Exchanges:

- SVT
- Jeppeson Chartview
- Search & Rescue
- TAWS-B
- Video Input

Optional Equipment:

- GI-275 & GSB 15
- GDL 60 PlaneSync™



Database Sync Progress



GDL 60 (Cellular, WiFi & Bluetooth)
datalink



GA 60 Internal antenna

Perspective + Upgrade:

Standard Equipment:

- Two (2) GDU 1050A / 1250A
- One (1) GCU 479 (QWERTY)
- One (1) GMC 707

Enablement Exchanges:

- SVT
- Jeppeson Chartview
- Search & Rescue
- TAWS-B
- Video Input

Optional Equipment:

- GI-275 & GSB 15
- GDL 60 PlaneSync™
- **GTX 345R*** (Required for Runway Occupancy Awareness - ROA)



Perspective + Upgrade:

Standard Equipment:

- Two (2) GDU 1050A / 1250A
- One (1) GCU 479 (QWERTY)
- One (1) GMC 707

Enablement Exchanges:

- SVT
- Jeppeson Chartview
- Search & Rescue
- TAWS-B
- Video Input

Optional Equipment:

- GI-275 & GSB 15
- GDL 60 PlaneSync™
- GTX 345R
- **SurfaceWatch™**



Perspective + Upgrade:

Standard Equipment:

- Two (2) GDU 1050A / 1250A
- One (1) GCU 479 (QWERTY)
- One (1) GMC 707

Enablement Exchanges:

- SVT
- Jeppeson Chartview
- Search & Rescue
- TAWS-B
- Video Input

Optional Equipment:

- GI-275 & GSB 15
- GDL 60 PlaneSync™
- GTX 345R
- Surface Watch Enablement
- **Taxiway Routing Enablement**



Perspective + Upgrade: GMA 350C Audio Panel NOTE:

- Audio Panel Upgrade (from GMA 347 → GMA 350c)

Requires P/N 010-00871-41

The GMA 350c part number is the only approved version for performing an audio panel upgrade in conjunction with a Perspective+ Flight Deck Upgrade



Perspective + Upgrade (12" Displays) List Pricing:

\$34,995 Base Price w/Loader Card

\$13,495 Upgrade Bundle:

- GDL 60 PlaneSync™
- GI 275 Standby
- GSB 15
- Cirrus Sub-Panel
- SurfaceWatch™
- Taxiway Routing

\$48,490 Nicely Equipped

Available Separately:

- Flightstream 510
- GDL 60 PlaneSync™
- GDL 69A Sirius XM Weather & Radio
- GI 275 Standby
- GMA 350c Bluetooth™ Audio Panel
- GSB 15
- GTS 800 TAS
- GTX 345R ADS-B Out/In Transponder
- SurfaceWatch™
- Taxiway Routing



Perspective + Upgrade (10" Displays) List Pricing

\$29,995 Base Price w/ Loader Card

\$13,495 Upgrade Bundle

- GDL 60 PlaneSync™
- GI 275 Standby
- GSB 15
- Cirrus Sub-Panel
- SurfaceWatch™
- Taxiway Routing

\$43,490 Nicely Equipped

Available Separately:

- Flightstream 510
- GDL 60 PlaneSync™
- GDL 69A Sirius XM Weather & Radio
- GI 275 Standby
- GMA 350c Bluetooth™ Audio Panel
- GSB 15
- GTS 800 Traffic Advisory System (TAS)
- GTX 345R ADS-B Out/In Transponder
- SurfaceWatch™
- Taxiway Routing



Perspective+ upgrade

SUMMARY

Replaces existing G1000 hardware with G1000Nxi

- 2x GDU 1050A or 1250A displays
- 1x GMC 707 Mode Controller (Autopilot)
- 1X GCU 479 FMS control panel
- New software

Optional Upgrades

- GTX 335/345 ADS-B Transponder
- GI 275 Standby Instrument
- GDL 60 datalink
- Flight Stream 510
- Taxiway Routing enablement
- Surface Watch enablement
- GMA 350c



Perspective	= G1000
Perspective+	= G1000Nxi

Perspective+ upgrade

New Features/ Benefits

- increased processing power for faster smoother display
- Increased memory capacity for internal database storage
 - No need to keep SD cards in displays
- HSI Map
- Split Screen MFD
- Visual Approaches
- Stabilised Approach Advisory
- IFR/VFR Charts
- 3D taxi (with SVT)
 - optional Taxiway Routing
- Runway Occupancy Awareness (ROA) – with GTX345
- Flight stream 510, or GDL60 with PlaneSync
- New Qwerty keyboard control panel with Home button
- **24 Month Warranty**



Perspective	= G1000
Perspective+	= G1000Nxi



Thank You

GARMIN

Limitations of Perspective + STC:

Who can install the Perspective + Upgrade?

- Garmin Aviation Dealers
- Cirrus-Owned Service Centers
- Select 3rd-Party Cirrus Service Centers

ADS-B “Out” Transponder Limitation for ROA:

- GTX 33 ES ADS-B “Out” only transponder not compatible for Runway Occupancy Awareness (ROA)
- GTX 345R ADS-B “Out and In” transponder enables ROA functionality.
 - Enables TIS-B traffic, FIS-B Weather, and ROA

Cirrus SR-Series Model Limitation:

- 1999-2003, “Gen 1” SR-Series Cirrus’s are **excluded** from this STC.
- 2004-2007, “Gen 2” SR-Series with STEC 55X autopilot are **excluded** from this STC.
- 2008-2016, “Gen 3” and “Gen 5” SR-Series with GFC 700 (and GIA 63W’s) are **Included** in this STC.
- 2017-2023, “Gen 6” SR-Series (with Perspective + (G1000 NXi) Hardware already installed) with GIA 64 are excluded from STC initially, but will be added via future STC to load System 7.XX SW.

Limitations of Perspective + STC:

GDU Display Upgrade Limitation:

- 10" → 12" **Not** approved under Garmin's STC. (10"→12" Upgrade requires Field Approval)
- 10" → 10" Approved under Garmin's STC
- 12" → 12" Approved under Garmin's STC

GI 275 Standby SVT Limitation:

- SVT Enablement for GI 275 ADAHRS is not approved under this STC, initially.

MD-302 Standby Limitation:

- If originally equipped with MD-302 Standby, then cannot upgrade to GI 275 under (current) Garmin STC.
- "Phase 2" of the STC envisioned to address upgrading from MD 302 → GI 275 standby.

Legacy XM Receiver Limitation:

- **Sirius** XM ("**SXM**") GDL 69A receiver **approved** for SXM weather & SXM Radio on Perspective + System
- **Legacy XM GDL 69A** receivers (currently installed in most G3 and G5 SR series Cirrus's) are not approved under Garmin's STC with Perspective + System Software. **However, contact Cirrus Support for documentation and protocols reference this (Legacy GDL 69A / Perspective +) interface**
- A follow-on (Garmin) STC amendment is planned to remove this limitation.

Limitations of Perspective + STC:

Owner returns (removed) original Hardware to Garmin:

- **Original Hardware** (either) :
 - (Dual) 10" GDU 1040A Displays, GMC 705 Keypad, and the GCU 478 Autopilot Controller (OR)
 - (Dual) 12" GDU 1240A Displays, GMC 705 Keypad, and the GCU 478 Autopilot Controller

Owner returns original Software Enablement's to Garmin **::

- **Original Software Enablements.**
 - SVT SafeTaxi
 - Jeppeson Chartview
 - Search & Rescue
 - TAWS-B
 - Video Input (To display Forward-Vision EVS-600 Camera)

*(** Note: Original Enablement's from removed components are not compatible with Perspective + and must be returned to Garmin and exchanged for new enablements to function correctly.*

Limitations of Perspective + STC:

Avidyne TAS (Traffic Advisory System) Limitation:

- Avidyne TAS 600 (an option on 2008 & 2009 Perspective aircraft) is not compatible with Runway Occupancy Awareness (ROA).
- Garmin has tested the following two (2) compatible traffic options on the Perspective + System:
 1. GTX 345R
 2. GTX 345R + GTS 800

Flightstream 110 and 210 Limitation:

- Flightstream 110 and Flightstream 210 are not compatible with Perspective + (G1000 NXi) System.
- GDL 60 PlaneSync™ is compatible with Perspective + System
- Flightstream 510 is compatible with Perspective+ System

GDL 88 UAT Limitation:

- GDL 88 Universal Access Transceiver (UAT) cannot be used together with GTX 345R on Perspective + Aircraft
- 2016 is only year GDL 88 was offered at the factory. Therefore...
- 2016 Customers adding GTX 345R (for ROA) should deactivate or remove GDL 88 from their aircraft.

GI 275 SVT Limitation:

- GI 275 SVT Enablement is not approved under this STC.

Runway Occupancy Awareness (ROA) Limitation:

- ROA requires GTX 345R (ADS-B Out/In Transponder) to function correctly on Perspective + Aircraft
- GTX 33 ES is not compatible with ROA

G500 TXi For Cirrus SR20 & SR22 Series, (Gen 1 & Gen 2) Aircraft



G500 TXi with 12.1" Displays

- Options:

- G500 TXi w/ 12.1" Displays
 - Single or Dual ADHRS
- PlaneSync™ (GDL 60)
- GMA 345 Bluetooth™ Audio Panel
- Dual GTN Xi GPS/NAV/COM's
 - ILS, LPV, Visual Approaches
 - Optional Guided Visual Approaches
 - GCO 14
- 3-Axis GFC 500 w/ SmartGlide™
- GTX 345R ADS-B Out/In Transponder
- GI 275 4-In-1 Standby w/ Backup Battery
- GSB 15 Dataport & USB A/C Charger.



- Voted #1 Product Support by AIN Survey (for last 21 years)

MANEUVERING SPEED
V₀ 133 KIAS
NORMAL CATEGORY AIRPLANE
NO ACROBATIC MANEUVERS,
INCLUDING SPINS, APPROVED

INDUCTION
FILTER
BYPASS
OPEN

PRESS TO
TEST

DIM

TEST

OFF R L BOTH START

OL ANNUN DISABD
VOLT ANNUN DISABD
ALT1 ANNUN DISABD
ALT2 ANNUN DISABD

OFF R L BOTH START

MASTER
BAT 2 BAT 1 ALT 1 ALT 2 AVIONICS
OFF NORM ICE PROTECT PITOT HEAT NAV BYPASS LAMP EXTERIOR LIGHTS
INSTRUMENT PANEL OVERHEAD

PTT
AP DISC



GARMIN