FAQ's for

GFX-1060™ and GFX-1260™

⌖ Trimble

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1. Sales & Marketing

Who is the target customer for these systems?

- The GFX-1060 customers will be very similar to the GFX-750™ customers. Both products are a 10 inch display with the same GNSS architecture (NAV-500™ or NAV-900). The GFX-750 was launched in November of 2017 and the first growing season on the unit would have been 2018. Those units are now 5 years old and some farmers might be looking for the newer, faster and more powerful display. This GFX-1060 has more memory and CPU than the GFX-750, which allows for high CPU tasks to be done easier.

- The GFX-1260 is the next generation 12 inch Android/PIQ display. This display is replacing the TMX-2050™ and this display is the first 12" display to be part of the GFX architecture. This display can be a drop in replacement for the GFX-350™ or the GFX-750 because it has the same cabling and it connects to the NAV-900 or NAV-500. TMX-2050 users will also want to upgrade to this display for the higher performance processor and additional connectivity.

What is the new "Centimeter-level accuracy out of the box" program?

- Every purchase of a NAV-900 guidance controller includes a one-year license for CenterPoint® RTX, maximizing your customer's investment in precision agriculture technology. CenterPoint RTX provides the easiest, most robust way to get <2.5 cm (1 in) repeatable, high-accuracy performance out of the vehicle.

CenterPoint RTX

The software activation bundles for the NAV-900 (base hardware), all have a built-in, one (1) year of Trimble CenterPoint RTX that starts on the **software activation date**. This option gives you the best RTX available in your region- all without a requirement for a high-accuracy license.

For example, upon activation of this option, you would instantly have access to RTX Fast, RTK users would be able to access xFill® Premium, and other correction services that are supported in your region. This RTX option is renewable at the end of one (1) year after activation.

Note: RTK and VRS require a high accuracy license.

2. Installation, Setup, Licensing and Configuration

When I powered on a new GFX-1060 or GFX-1260 it says "Precision-IQ™ Firmware Update Notice. Access to Precision-IQ V11.21 is unavailable. You must upgrade to Precision-IQ V12.00 or higher to take advantage of the latest features and functionalities." What does that mean?

- The displays ship with a basic firmware out of the factory. We want all resellers to upgrade to the latest available firmware prior to installation.

After I updated the firmware on the GFX-1060 or GFX-1260 it says "The application is missing a required license. Verify in App Central under the Licensing tab that all system licenses are present and active." What does that mean?

- All GFX-1060 and GFX-1260 displays ship in a "Base Hardware" configuration. Precision-IQ is not active until the Software Activation License has been applied via App Central.
- Software Activation licenses are purchasable on the Trimble store under the GFX-1060, GFX-1260 and NAV-900 sections
  Note: They are geo-fenced to regions, so it is important to choose the correct bundle for your region.

What is the full list of licenses that can be purchased at release for the GFX-1060 and GFX-1260?

Part Number	Description
96553-12	License, Display-Multi Type, Implement: ISOBUS Universal Terminal, No Expiry
96553-20	License, Display-Multi Type, Implement: Field IQ™, No Expiry
96553-16	License, Display-Multi type, VRS Correction Client, No Expiry
96553-07	License, Display-Multi type, Implement: Prescriptions, No Expiry
96553-10	License, Display-Multi type, Implement: ISOBUS Task Controller, No Expiry
96553-11	License, Display-Multi type, Implement: Serial Rate and TUVR, No Expiry
96553-13	License, Display- Multi Type, Implement: Multi-Product Control, No Expiry
96552-16	License, Display-Multi Type, Guidance: Advanced Guidance 1, No Expiry
93451-21	License, DEMO, Display-Multi type: All Features, 15 Day
96553-14	License, Demo, Display-Multi Type, VRS Correction Client, 15 Day
96557-01	License, GFX-750/XCN-1050™, System: Auto Asset Detection App, No expiry

How do I apply licenses to the GFX-1060 and GFX-1260?
- Licenses can be applied through USB, QR Code or if the display is connected to WiFi it can be assigned licenses through reseller admin.

How do I apply licenses to the NAV-900 or NAV-500 with a GFX-1060 or GFX-1260?
- All licenses are managed through the GFX-1X60 display using a QR code or file on the USB drive.

I see some of the license part numbers for the GFX-1060 and GFX-1260 are the same as what is used on GFX-350, GFX-750 or TMX, is that correct?
- In some cases, the GFX-1060 and GFX-1260 uses a common display license or receiver license that is also used in the GFX-350, GFX-750 or TMX/TM200 System (e.g. License, Receiver-Multi type, GNSS: Basic to High, No Expiry. However, the NAV-900 also has some

new exclusive licenses that are not compatible with TMX/TM-200. E.g. License, NAV-900, Guidance: Autopilot™, No Expiry)

How do I know what licenses are active in my GFX-1060 or GFX-1260?

- Click on the App Central icon on the launcher screen, then click on the 'Menu' icon in the top left of the screen. Then click on the menu item called licenses to review the license status of your display and guidance controller.

Do licenses reside in the display or in the guidance controller?

- It depends, GNSS Accuracy, Auto Guidance and Region licenses all reside in the NAV-900 Guidance controller and stay there for the life of the unit, even if it is used with a different display. (E.g Autopilot)

Are licenses transferable?

- No, not at this time.

3. Display Features

What are the hardware differences between the GFX-1060, GFX-750, GFX-1260 and TMX-2050?

	GFX-1260	TMX-2050	GFX-1060	GFX-750	GFX-350
Screen Size	30.7 cm/12.1 in	30.7 cm/12.1 in	25.6 cm / 10.1 in	25.6 cm / 10.1 in	17.1 cm / 7 in
Storage	32 GB	16 GB	32 GB	16 GB	16 GB
RAM	4 GB	1 GB	4 GB	1 GB	1 GB
USB Ports	2	2	2	2	1
100Base-T1 (BRR Ports)	2	0	1	1	1
CAN Ports	3	2	3	1	1
External Camera Support	2	2	2	1	1
Processor (CPU)	Quad-Core iMx8 PLUS 4x Cortex A53@1.2GHz 1x Cortex A72@1.6 GHz 64 bit	Quad-Core iMx6 PLUS 4x Cortex A9@1GHz 32 bit	Quad-Core iMx8 PLUS 4x Cortex A53@1.2GHz 1x Cortex A72@1.6 GHz 64 bit	Quad-Core iMx6 PLUS 4x Cortex A9@1GHz 32 bit	Quad-Core iMx6 PLUS @1GHz
Front Facing Camera	Low-light level, color, 1.0 M pixels, 720 p	1.0 M pixels. 720 p	Low-light level, color, 1.0 M pixels, 720 p	1.0 M pixels. 720 p	N/A
Bluetooth®	Bluetooth 5	N/A	Bluetooth 5	Bluetooth 4.1	Bluetooth 4.1
Wi-Fi	2.4 & 5 GHz	Option	2.4 & 5 GHz	2.4 GHz	2.4 GHz
Housing Material	Cast Aluminum	Magnesium	Cast Aluminum	Cast Aluminum	Plastic Compound

How many Camera inputs does GFX-1060 or GFX-1260 support.

- 2 Analog video camera is supported.

How easy is it to transfer the GFX displays and NAV-900 between vehicles?

- Very easy and cost-effective too. The display attaches using the universal RAM mounting option and is removed without tools. Similarly, the NAV-900 can be fitted with the optional Quick release mounts and also be removed without the use of tools.
  Note: As the NAV-900 has the GNSS and Steering controller integrated in one, it also helps ease of transfer as no separate control box is required to be swapped over.

Can I import the field data from my other Trimble display to use on my GFX-1060 or GFX-1260?

- Yes, the system will use lines etc from another Trimble display. However, only implements and materials from another Precision-IQ display (such as a TMX running PIQ) can be imported. FmX®/FmX+® or CFX created implements are not supported.

Can GFX use terrain compensation with manual guidance?

- NAV-500 requires a license for terrain compensation.
- NAV-900 has the terrain compensation license included.

What does the Expansion Port on the back of the GFX-1060 or GFX-1260 Support?

- The expansion supports: 1 video input, radar out, implement lift switch, serial (TUVR) rate control.

Are the GFX-1060 and GFX-1260 ISOBUS compatible?

- Yes.

What implement guidance capabilities do the GFX-1060 and GFX-1260 have?

- None at this time.

What are the prescription mapping capabilities of the GFX-1060 and GFX-1260?

- Same as the current GFX-750.

What languages do the GFX-1060 and GFX-1260 displays support?

- Bulgarian, Chinese, Czechoslovakian, Danish, Dutch, English, Estonian, French, Finnish, German, Greek, Hebrew, Hindi, Hungarian, Italian, Japanese, Korean, Latvian, Lithuanian, Mongolian, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Spanish, Swedish, Turkish, Ukrainian

Are there any FmX+ features that the new displays are now capable of?
- At the launch of the new displays in October of 2022 there will be no FmX+ features in Precision-IQ. The new displays with Precision-IQ will have the same features capability as the GFX-750 in 2022.

What operations will I still need a TMX display to perform?
- Water Management, Implement Guidance, Remote Output and other core FmX+ features not in Precision-IQ.

4. Hardware Compatibility

What steering solutions work with the GFX-1060 and GFX-1260?

- The steering solutions that can be used on the GFX-1060 or GFX-1260 is dependent on which NAV is paired with the display.

	NAV-900	NAV-500
Manual Guidance	Compatible	Compatible
Roll Corrected Manual Guidance	Compatible	Compatible
EZ-Steer®	Compatible	Compatible
EZ-Pilot®	Compatible	Compatible
EZ-Pilot Pro	Compatible	Compatible
Guidance Ready (CANBus J1939)	Compatible	N/A
Autopilot Motor Drive	Compatible	N/A
Autopilot	Compatible	N/A

What does an Autopilot license enable?

- All forms of Autopilot including CAN and Autopilot Motor Drive.

What does a CAN Autopilot license enable?

- CANBus J1939 steering, (but not Autopilot Motor Drive).

Can GFX-1060 or GFX-1260 and NAV-900 systems control an aftermarket Hydraulic installation without a Nav II/III controller?

- No, the NAV-900 currently supports CAN steer platforms or Autopilot Motor Drive solutions. If you need to run a Trimble hydraulic valve, then you need to have a Nav II/III controller or VDM-912 connected to the NAV-900 as an external device (driver).

Do I need an Autopilot license if I am running a Nav II or III unit as an external device?

- No, no license is required.

Can the GFX-1060 or GFX-1260 be used with EZ-Steer or EZ-Pilot?
- Yes.

Can any part of an EZ-Pilot system be leveraged to run Autopilot motor drive?
- Yes, the SAM-200 motor and its steering column mounting hardware, are all compatible with the GFX-1060 or GFX-1260 and NAV-900 APMD system. (Note: EZ-Pilot cables and IMU-600 are not retained in the new system.)

If I am currently using a Nav III with Autopilot and NextSwath™ on my TMX, and want to use that controller for external Autopilot with my GFX-1060 or GFX-1260 NAV-900 System, will the NextSwath license carry across?
- No, that license will stay with the TMX display and you will need a new license for your NAV-900 (96552-11 License, NAV-900, Guidance: NextSwath, No Expiry)

Can I run a Field-IQ Master switch or section switch box?
- Yes, you can run a Field-IQ master switch box or a 12 section switch box with the GFX-1060 and GFX-1260.

Can I run a Field-IQ Switch Input Module for controlling functionality?
- Yes, the Signal Input Module is supported.

Can GFX control an aftermarket Hydraulic installation without a Nav II/III controller?
- No, the NAV-900 does not have a valve driver and as a result, it can only control CAN steer platforms or Autopilot Motor Drive solutions. If you need to run a Trimble hydraulic valve then you need to have a Nav II/III controller or VDM-912 connected to the NAV-900

Does the GFX support "Remote Output" (Tree Planting) functionality?
- No, not supported.

Can the GFX do FIQ Precision planter and monitoring or air seeder/drill control?
- Yes, this is supported.

Can the GFX do yield monitoring?
- No, not supported.

Can the GFX be used with Trimble Boom height control?
- No, not supported.

5. Trimble Ag Software

Can I send data from my GFX-1060 or GFX-1260 to Trimble Ag software?

- Yes, the GFX-1060 or GFX-1260 is fully compatible with Trimble Ag software including wireless transfer. https://agriculture.trimble.com/software/

What kind of data management capabilities do the GFX-1060 and GFX-1260 displays have through Trimble Ag Software?

- Same as the GFX-350 and GFX-750.

Are the GFX-1060 and GFX-1260 compatible with Farmer Core and Farmer Pro?

- Yes.

6. GNSS & Correction Services

Is the NAV-900 and NAV-500 compatible with the GFX-1060 and GFX-1260?

- Yes, the systems are interchangeable. The GFX-1060 and GFX-1260 will work with either the NAV-500 or NAV-900.

What correction services can I use?

- The correction services that can be used on the GFX-1060 or GFX-1260 is dependent on which NAV is paired with the display.

	NAV-900	NAV-500
GPS | GLONASS | SBAS | GALILEO | BEIDOU | QZSS	Compatible	Compatible
xFill	Compatible	N/A
xFill Premium	Compatible	N/A
RTX ViewPoint	N/A	Compatible
RTX RangePoint® Std-Sat	Compatible	N/A
RTX CenterPoint - Fast EU	Compatible	N/A
RTX CenterPoint - Fast USA	Compatible	N/A
RTX CenterPoint - Std-Sat	Compatible	N/A

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What are the GNSS Receiver (NAV-500, NAV-900) Licenses?

Correction Service	Accuracy Level	Part Number	Description
External NMEA output	N/A	xxxxx-xx New!	Enables NMEA from NAV-900 to third-party display or controller
ViewPoint (NAV-500 only)	Basic	No license required	No accuracy license required. Purchase ViewPoint RTX subscription via TPS store*.
RangePoint RTX	Basic	No license required	No accuracy license required. Purchase RangePoint RTX subscription via TPS store*.
CenterPoint RTX**	Intermediate	96551-02	License, Receiver-Multi type, GNSS: Basic to Int, No Expiry. Purchase CenterPoint RTX subscription via TPS store*.
CenterPoint RTX Fast RTK VRS Now	High	96551-03	License, Receiver-Multi type, GNSS: Intermediate to High, No Expiry Also need the Basic to Intermediate license. Purchase CenterPoint RTX Fast or VRS Now subscription via TPS store*.
		OR	OR
		96551-04	License, Receiver-Multi type, GNSS: Basic to High, No Expiry Purchase CenterPoint RTX Fast or VRS Now subscription via TPS store*.

**Please note that the CenterPoint RTX Intermediate license (P/N 96551-02) will be discontinued by Q1 2023. Further information will be available soon in product bulletins.

What level of accuracy can the system achieve?

- With a NAV-900 and CenterPoint RTX or RTK, the system can achieve 2.5 cm repeatable accuracy.

I see many more satellites being tracked with this system than I have seen with other systems, is this correct?

- Yes - the NAV-900 is built using the most up-to-date GNSS technology. It is able to track more satellites from more constellations, namely GPS, GLONASS, Galileo and BeiDou.

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What are the GNSS Receiver licenses for Trimble steering solutions?

Part Number	Description	EZ Steer/ EZ Pilot	EZ-Pilot Pro	CAN AP	Autopilot *
96552-30	License, Receiver-Multi Type, Guidance: EZ-Steer/EZ-Pilot, No Expiry**	✔	N/A	N/A	N/A
96552-07	License, Receiver-Multi Type, Guidance: EZ-Pilot Pro, No Expiry**	N/A	✔	N/A	N/A
96552-08	License, NAV-900, Guidance: CAN Autopilot, No Expiry	N/A	N/A	✔	N/A
96552-10	License, NAV-900, Guidance: Autopilot, No Expiry	N/A	N/A	✔	✔
96552-11	License, NAV-900, Guidance: NextSwath, No Expiry	N/A	N/A	✔	✔
96552-13	License, DEMO NAV-900, Guidance: EZ-Pilot Pro, 15 Day (also works for NAV-500, but IMD-900 required)	N/A	✔	N/A	N/A
	This license activates EZ-Pilot Pro functionality for a 15-day trial period. *Note: This license must be administered to a NAV-900 without a full Autopilot Demo code present for the EZ-Pilot Pro functionality to be exhibited.*				
93451-41	License, DEMO, Receiver-Multi Type: All Features, 15 Day (does not work for NAV-500)	N/A	N/A	✔	✔
	This license activates all NAV-900 functions for a 15-day trial period. Includes full Autopilot, Autopilot Motor Drive (APMD), CAN Steer, NextSwath, and High-Level Accuracy. *Notes:* • *Autopilot Motor Drive will be exhibited with this license and not EZ-Pilot Pro.* • *Trimble RTX™ subscriptions are not covered by this license and have to be applied for in addition.*				

* Includes Autopilot Motor Drive (APMD)
** for both NAV-500 and NAV-900

Will I notice any benefits from the additional satellites?

- Yes, the additional satellites will provide greater robustness under foliage and in shaded areas, when they are being used in the position solution. They will also provide faster convergence times for CenterPoint RTX and RangePoint RTX. For RTK and VRS solutions, the additional satellites will provide benefit only if the received correction stream contains satellites from these additional constellations.

What do I need to do to activate the first year of CenterPoint RTX that is now included with the purchase of a NAV-900?

- CenterPoint RTX is incorporated in the current Software Activation Bundles for NAV-900 Base Hardware. Upon activation, CenterPoint RTX will be available for 1 Year from the day of activation.

There is no other administration required to start CenterPoint RTX

- Renewals will be available for customers who want to continue with CenterPoint RTX after 1 Year has elapsed.
- Software Activation Bundles including CenterPoint RTX are purchasable for your region and can be purchased as part of a Display and NAV Controller bundle or NAV-900 Standalone bundle.

What is a VRS client license?

- VRS client allows the user to leverage VRS corrections over the internet using the GFX-1060 or GFX-1260 integrated Wifi without a specialized modem.

Can I use a mobile phone as a hotspot to get VRS?

- Yes, if you have a VRS client license, but note you will also need a High Accuracy GNSS license for your guidance controller and a VRS subscription from a service provider to receive the corrections.

Do I need a VRS client license when using a GX450 Modem?

- No, the GX 450 has a built-in VRS client, so you will just need a High Accuracy GNSS license.

When is it satisfactory to use the VHB mount option for the NAV-900 installation?

- It is recommended that the VHB mounts are only used for low-accuracy solutions. VHB mounting is not recommended for high-precision auto guidance installations and should be used as the last option; a more rigid fixed mount option is recommended as some cabs can have flexibility in their structure. For high performance, choose from one of our more rigid factory mount adapters or spar mount options.

What correction formats does the NAV-900 support?

- The NAV-900 supports the following correction Formats: CMR+, sCMR+, sCMR+ with SecureRTK, CMRx, RTCM 3.0, RTCM 3.1, RTCM 3.2

What radio can I use with NAV-900 for 900 Mhz frequency RTK applications?

- The SNB-900, SNB-900R external radios can be used with NAV-900 receiver. In the GFX-750 display, please use the radio selection "External Radio" and not "Trimble External (900 MHz)" for these two radios.

What radio can I use with NAV-900 for 450 Mhz frequency RTK applications?

- The TDL-450 external radios can be used with NAV-900 receiver. In the GFX-750 display, please use the radio selection "External Radio" and not "Trimble External (450 MHz)" for this radio.

Will there be a modular RTK radio available for the NAV-900?

- Yes, the AG-820 radio was released in late 2018 and is sold in 2 variants. 450 & 900Mhz. It is externally (mag) mounted on the roof of the vehicle and connects (power & communication) directly to the Nav-900 via a BRR cable.