Generation 4 Display compatibility

This is the compatible equipment approved with the software update 19-1 release, and is subject to change with newer software updates. To ensure complete and proper compatibility, the most current version of implement control unit software, Gen 4 Display software, or compatible farm management information software (FMIS) should be used. Non-current software versions will require an update before support can be provided. Unapproved software version configurations will not be supported.

The software update 19-1 release is only compatible with 4600 CommandCenter™ v2 processors. Software update 17-2 is the last release that was compatible with 4600 v1 processors.

Server serial numbers are as follows:
- v1 = RWG prefix
- v2 = PCG prefix

Machine compatibility

John Deere Large Ag Tractors

John Deere Large Ag Tractors (list of all automatically detected machines)	Model year	CommandCenter™ display		Universal Display	
		4600 v2	4200	4640	4240
9R/9RT/9RX Series	2018 and newer	X	---	X	X
9R/9RT/9RX Series	2015 - 2017	*	---	X	X
9R/9RT	2012 - 2014	---	---	X	X
9030/9030T Series	2008 - newer	---	---	X	X
8R/8RT Series	2018 - newer	X	---	X	X
8R/8RT Series	Mid-2014 - 2017	*	---	X	X
8R/8RT Series	2010 - 2013	---	---	X	X
8030/8030T Series	2006 and newer	---	---	X	X
7R Series	2018 and newer	X	X	X	X
7R Series	2014 - 2017	*	---	X	X
7R Series	2012 - 2013	---	---	X	X

		CommandCenter		Universal Display	
		4600 v2	4200	4640	4240
7J Series	2018 and newer	---	---	X	X
7030 Series	2007 and newer	---	---	X	X
7030 Series (Large Frame)	2007 and newer	---	---	X	X
6030 and 7030 Series (Small Frame)	2006 and newer	---	---	X	X
6R Series	2018 and newer	X	X	X	X
6R Series (Final Tier 4)	2015 - 2017	*	---	X	X
6R Series (Interim Tier 4)	2013 - 2015	---	---	X	X
6M Series	2013 and newer	---	---	X	X
6J Series	2018 and newer	---	---	X	X
5R Series	2019 and newer	---	---	X	X

NOTE: For latest Precision Ag functionality, update machines equipped from the factory with v1 processor to v2.

John Deere Nutrient Applicators

John Deere Nutrient Applicators	Model year	CommandCenter		Universal Display	
		4600 v2	4200	4640	4240
F4365 High-Capacity Nutrient Applicator	2017 and newer	X	---	---	---

John Deere Self-Propelled Sprayers

John Deere self-propelled sprayers	Model year	CommandCenter		Universal Display	
		4600 v2	4200	4640	4240
4 Series Sprayers	2018 and newer	X	---	---	---
4 Series Sprayers	2013 - 2017	---	---	X	---
4940	2012 - 2014	---	---	X	---
4630	2008 and newer	---	---	X	---
4730	2008 and newer	---	---	X	---
4830	2008 - 2014	---	---	X	---
4930	2006 - 2013	---	---	X	---
R4040i	2019 and newer	---	---	X	---

R4050i	2019 and newer	---	---	X	---
Hagie™ sprayers	2014 and newer	Compatible with GreenStar™ 3 2630 Displays and 4640 Universal Displays*			

NOTE: When using the 4640 Universal Display on a Hagie Sprayer, additional mounting and harnessing may be required. Current John Deere/Hagie field kits only offer GreenStar 3 2630 Display parts.

- *4640 Ram™ Mount - SJ34503*
- *4640 power/video harness - BPF11527 (1-3 video plus machine power), PF90687 (machine power only)*
- *AutoTrac™ Vision/AutoTrac RowSense and multi-rank section control are not supported on Hagie at this time*

John Deere Self-Propelled Forage Harvesters (SPFH)

John Deere Self-Propelled Forage Harvesters	Model year	CommandCenter		Universal Display	
		4600 v2	4200	4640	4240
9000 Series SPFH	2019 and newer	---	---	X	---
8000 Series SPFH	2015 and newer	---	---	X	---

John Deere combines

John Deere combines	Model year	CommandCenter		Universal Display	
		4600 v2	4200	4640	4240
S700 Series	2018 and newer	X	---	---	---
S430 and S440	2017 and newer	X	---	---	---
S600 Series	2012 - 2017	---	---	X	X
S540 and S550 Series	2012 and newer	---	---	X	X
T-Series	2012 and current	---	---	X	X
W-Series	2012 and current	---	---	X	X
70 Series*	2008 - 2013	---	---	X	X

NOTE: If using 4640 Universal Display, AutoTrac RowSense on a 70-Series Combine is not compatible.

NOTE: Competitive equipment may be compatible with 4640 Universal Display and 4240 Universal Display.

Equipment compatibility

John Deere planters

SeedStar™ 4HP planters are only compatible with 4600 CommandCenter displays with a version 2 (v2) processor and 4640 Universal Displays. Displays should be running Gen 4 OS software version 10.10.404-390 or newer and the most current version of tractor applications to be compatible with SeedStar 4HP planter applications. Additionally, dual-display mode is not available for use with SeedStar 4HP planter applications, along with Gen 4 Extended Monitor.

The SeedStar 2 configuration below is available only on factory-installed model year 2011 and newer planters and may be field-installed on model year 2009 and 2010 planters. Green PM/PA controllers (factory-installed on model year 2009 and 2010 planters) are not supported with a Gen 4 display.

For John Deere dealers: the Service ADVISOR™ tool is needed to update SeedStar 2, SeedStar XP, and SeedStar 3 HP software. Documentation is not supported when using a rate controller to control row clutches on a John Deere planter.

John Deere planters	Control unit name	Software version (or newer)	CommandCenter display		Universal Display	
			4600 v2	**4200**	**4640**	**4240***
SeedStar 2	Black PM1	22.0	X	X	X	X
	Black PA1, (if available PA 2)	22.0	X	X	X	X
	Green PM1	10.11	---	---	---	---
	Green PA1 (if available PA 2)	10.11	---	---	---	---
SeedStar XP	Black PM1	22.0	X	X	X	X
	Black PA1, (if available PA 2)	22.0	X	X	X	X
	PM2	7.0	X	X	X	X
SeedStar 3 HP	Planter Main A (PCMA)	5.0	X	X	X	X
	Planter Main B (PCMB or MMC)	8.0	X	X	X	X
	Row-unit Controller (RUC)	2.0	X	X	X	X

			CommandCenter		Universal Display	
	EPG	3.0	X	X	X	X
SeedStar 4HP	Planter Apps	10.3.14-14	X	---	X	---
	Planter Main A (PCMA)	4.0	X	---	X	---
	Planter Main B (PCMB or MMC)	4.0	X	---	X	---
	Row-unit Controller (RUC)	2.0	X	---	X	---
	Electrical Power Generation (EPG)	3.0	X	---	X	---
	Electrical Power Module, 2 (PC2)	2.0	X	---	X	---

NOTE: For implements requiring ground speed input (radar), utilizing a 4240 Universal Display may require an additional 4240 Radar speed kit.

John Deere Air Seeders

The C850 Air Cart requires a 4600/4200 CommandCenter Display or a 4640/4240 Universal Display. GreenStar 3 2630 monitors are not supported. Additionally, C850 Air Carts and AutoTrac Implement Guidance (passive) are compatible with software update 18-2 and newer.

John Deere Air Seeder	Model year/control unit name	Software version (or newer)	CommandCenter		Universal Display	
			4600 v2	**4200**	**4640**	**4240***
C850 Air Cart	Cart Master Controller (CMC)	12	X	X	X	X
	Mini Tank Controller (TXC)	6	X	X	X	X
	Front, Middle, Rear Tank Controller (TCU)	6	X	X	X	X
1870 Seeding Tool - TruSet™ system	2017 and newer (IDC)	5.0	X	X	X	X
1870 Seeding Tool - RelativeFlow™ blockage sensors	2017 and newer (BMU)	4.0	X	X	X	X

1910 Air Cart - ground drive	2009 and newer	3.0	X	X	X	X
1910 Air Cart - hydraulic drive	2013 and newer	8.00	X	X	X	X
Seeding tools with air-run blockage - primary blockage	2009 and newer (BMU)	12.0	X	X	X	X
Seeding tools with air-run blockage - air-run blockage	2009 and newer (BMU)	12.0	X	X	X	X
	Member Module	5.0	X	X	X	X
1990 Central Commodity System (CCS™)	2009 and newer (BMU)	12.0	X	X	X	X

NOTE: For implements requiring ground speed input (radar), utilizing a 4240 Universal Display may require an additional 4240 Radar speed kit.

John Deere Tillage

John Deere Tillage	Control unit name	Software version (or newer)	CommandCenter		Universal Display	
			4600 v2	4200	4640	4240
AccuDepth™ cultivator	Implement Depth Control (IDC)	11	X	X	X	X
2730 with TruSet	Tillage Controller 1 (TC1)	1.65H8	X	X	X	X
2230 with TruSet	Tillage Controller 1 (TC1)	2.74J7	X	X	X	X
2330 with TruSet	Tillage Controller 1 (TC1)	2.34J7	X	X	X	X
2620/2630 with TruSet	Tillage Controller 1 (TC1)	2.94J7	X	X	X	X
2720 with TruSet	Tillage Controller 1 (TC1)	1.22H7	X	X	X	X
2660VT with TruSet	Tillage Controller 1 (TC1)	1.01J8	X	X	X	X

NOTE: For implements requiring ground speed input (radar), utilizing a 4240 Universal Display may require an additional 4240 Radar speed kit.

John Deere Round Balers

John Deere Round Balers	Control unit name	Software version (or newer)	CommandCenter		Universal Display	
			4600 v2	4200	4640	4240
0 Series	Baler Automation	10.07	X	X	X	X
9 Series Premium	Baler Automation	7.16	X	X	X	X
V451R/V461R	Baler Automation	11.5	X	X	X	X

John Deere Large Square Balers

John Deere Large Square Balers Including Harvest Tec applicator and PhiBer accumulator	Control unit name	Software version (or newer)	CommandCenter		Universal Display	
			4600 v2	4200	4640	4240
0 Series	Gen 4 VT	3.04	X	X	X	X
1 Series	Gen 4 VT	5.07	X	X	X	X

Precision Ag Technology software compatibility

John Deere control units	Control unit name	Software version (or newer)	CommandCenter display		Universal Display	
			4600 v2	4200	4640	4240
*StarFire 6000 Receiver	---	4.10J	X	X	X	X
StarFire 3000 Receiver	---	2.32H	X	X	X	X
*Modular Telematics Gateways (MTG) - 3G	---	21.03	X	X	X	X
*MTG - 4G	---	24.01	X	X	X	X
GreenStar Rate Controller	---	3.60F	X	X	X	X

GreenStar Rate Controller Dry	---	2.11A	X	X	X	X
*John Deere Rate Controller 2000	---	1.12C	X	X	X	X
*AutoTrac Universal 200	---	2.30A	---	---	X	X
*AutoTrac Universal 300	---	3.22O	---	---	X	X
AutoTrac Controller 250	---	11933B	---	---	X	X
*AutoTrac Controller - Deere	---	1.11B	---	---	X	X
AutoTrac Controller - Raven	---	3.2.29	---	---	X	X
AutoTrac Controller - Reichhardt®	---	SW 1.3	---	---	X	X
AutoTrac RowSense™	RG3	AKK15783E	X	---	X	---
AutoTrac Vision	VGC	4.01L	X	---	X	---
AutoTrac Turn Automation	---	18-1 (FT4 iTEC tractors)	X	---	X	---
AutoTrac Implement Guidance	---	18-1	X	---	X	---
Active Implement Guidance (VT)	Application 1100	2.71 T	X	---	X	---
iGrade™	Application 1100	2.71 T	X	---	X	---
Distance Trip	Application 1100	2.71 T	X	---	X	---
Gen 4 Extended Monitor			X	---	X	---
Wireless Data Server	Wireless Data Server	1.484.1 (Planting 7.471.1 (Application)	X	---	---	---
Mobile Data Transfer	MyTransfer™ App	3.8.6 (iOS) 3.8.5 (Android)	X	X	X	X
Connect Mobile app	Connect Mobile App	6.0.0 or newer	X	---	---	---

Connect Mobile server	Connect Mobile server	5.2.57-5	X	---	---	---
Mobile Weather	Application 1120	1.51 V	X	---	X	---

NOTE: See additional information below.

StarFire Receivers

StarFire Receivers can be updated in the following ways:
- Receiver USB port (available only for StarFire 6000 Receivers)
- Gen 4 display USB port
- Remote software updates application (in ISOBUS VT app)

Additionally, StarFire iTC Receivers are no longer supported with software update 2017-1 and newer software. StarFire 6000 Receivers require software version 3.80F or higher when used with AutoTrac Implement Guidance.

John Deere Operations Center

Gen 4 data is only compatible with the John Deere Operations Center.

Activations/subscriptions required for Wireless Data Transfer (WDT) and Data Sync:
- A 4600 CommandCenter Premium activation, 4200 CommandCenter Section Control and Data Sync activation, a 4640 Premium subscription, or 4240 Section Control and Data Sync
- JDLink™ Ultimate + WDT + Remote Display Access (RDA) or JDLink Connect subscription

To use RDA on a Gen 4 CommandCenter Display with a GS3 2630 Display connected in the same machine, GS3 2630 software version 3.22.1095 (SU2014-1) or higher is required (for 4600 CommandCenter Display and 4640 Universal Display only).

GreenStar Rate Controller and GreenStar Rate Controller Dry

GreenStar Rate Controller Dry is supported with display software update 2017-2 and newer. The 4600 and 4200 CommandCenter Displays and 4640 and 4240 Universal Displays support documentation and section control of up to five GreenStar Rate Controller units.

To update the GreenStar Rate Controller and GreenStar Rate Controller Dry, utilize a Gen 4 Display USB port. John Deere dealers can also utilize Service ADVISOR™. GDC 2.11A was the last software version available through Software Manager. GDC 2.20A has been available since spring 2015 and contains diagnostic language updates. This software can only be obtained through Service ADVISOR.

John Deere Rate Controller 2000

The Gen 4 Displays and John Deere Rate Controller 2000 can support documentation and control up to five operations. ISO controllers such as SeedStar on John Deere planters can be used with a John Deere Rate Controller 2000 that is documenting additional operations. Additionally, Gen 4 Displays can document shared sections with a John Deere Rate Controller 2000. An example of this would be John Deere Rate Controller 2000 used with a Raven Sidekick™ ICD direct injection pump.

AutoTrac™ Vision

AutoTrac Vision Guidance Camera 19-1 software 4.01L is only compatible with RowGuidance 3 Controller software AKK15783F and GreenStar 3 2630 17-1 software 3.34.1345 or newer and Generation 4 18-1 software 10.10.404-345 or newer.

AutoTrac Universal 200, AutoTrac Universal 300, and AutoTrac Controller

AutoTrac Universal 200, AutoTrac Universal 300, and AutoTrac Controllers are for use with the 4640 Universal Display and 4240 Universal Display.

ISOBUS implements

Gen 4 Displays are compatible with one Agricultural Industry Electronics Foundation (AEF) certified ISOBUS implement; AEF-certified ISOBUS implements with Task Controller Section Control (TC-SC) functionality and AEF certification for TC-SC include sprayers, fertilizer spreaders, planters, seeders, manure applicators, etc. For third-party FMIS compatibility, reference the John Deere Operations Center.

A software update performed by an authorized ISOBUS implement dealer may be required to obtain compatible software. ISOBUS implements must be certified through the Agricultural Industry Electronics Foundation (AEF) to be recognized by the Gen 4 CommandCenter display. Visit www.aef-online.org for more information; visit www.aef-isobus-database.org for an active list of compatible implements.

ISOBUS implements with VT4 are now supported by Gen 4 Displays. Gen 4 Displays still support older VT versions (example: VT2 and VT3). If an implement is not loading after updating to Gen 4 software update 2017-2 (or newer on 4600 CommandCenter v2 processors), it is recommended that the implement manufacturer be contacted to get a software version that is either VT3 or VT4.

Extended monitor

When using an extended monitor with equipment visualized in ISOBUS VT Viewer and applying VT run page modules to two run pages shown at the same time, the

extended monitor's VT modules will not update. To mitigate this, only view VT modules on one run page at a time.

Implements without controllers

Implements without controllers can be documented as a stand-alone operation or with a rate controller from John Deere. Additionally, multiple implements without controllers cannot be documented together.

AutoTrac Implement Guidance (passive)

AutoTrac Implement Guidance is compatible with SeedStar 3HP, SeedStar 2 and SeedStar XP.

AutoTrac Implement Guidance is compatible with C850 Tow-Behind Air Carts with software update 18-2.

AutoTrac Implement Guidance is not compatible with the SeedStar 4 HP planters for spring of 2019.

AutoTrac Turn Automation

To use the AutoTrac Turn Automation application, specific compatibility is required. AutoTrac Turn Automation is compatible with the following machines:
- 8030 Series Tractors
- 9030 Series Tractors (if equipped with PowerShift™ transmission)
- Model year 2012 and newer 6R Tractors (if equipped with Infinitely Variable Transmission [IVT™] and ITEC™ functionality)
- Model year 2011 and newer 7R Tractors (if equipped with CommandQuad™ transmission, e23™ PowerShift transmission, or IVT)
- Model year 2010 and newer 8R/RT Tractors
- Model year 2012 and newer 9R/RT/RX Tractors

NOTE: Integrated tractor IMS must be turned off on 30-Series Tractors to use AutoTrac Turn Automation on the Gen 4. Integrated Tractor iTEC must be turned off on the following tractors to use AutoTrac Turn Automation on the Gen 4:
- *Model year 2012-2014 6R*
- *Model year 2011-2013 7R*
- *Model year 2010-2013 8R*
- *Model year 2012-2014 9R*

NOTE: If instead an operator chooses to use the machine's integrated IMS/iTEC functionality, then AutoTrac Turn Automation and iTEC must be turned off in the Gen 4 Universal Display.

AutoTrac Turn Automation is compatible with SeedStar 3HP, SeedStar 2 and SeedStar XP.

AutoTrac Turn Automation is NOT compatible with SeedStar 4HP planters for spring of 2019

Camera compatibility

Voyager® cameras are supported on Gen 4 Displays. All other camera types are not supported.

Non-John Deere Precision Ag

4600 CommandCenter v2 and the 4640 Universal Display are compatible with the following RS-232 configurations with software update 18-2 and newer:
- GPS receivers with serial port connection
    - Will not enable AutoTrac guidance functionality
- Raven RS-232 control units (440, 450, or 660) on tractors configured as implement-based applications
- Gen 4 displays are not compatible with the DN345 Drawn Dry Spreader at this time.

Machine Communication Radio (MCR)

Gen 4 displays are not compatible with MCR.

APEX™ software
- Gen 4 display work data is not compatible with and cannot be viewed in APEX software.
- USB files including pre-assigned APEX tasks and iTEC™ Pro sequences will not import into Gen 4 displays.

NOTE: Gen 4 data is only compatible with the John Deere Operations Center. All Gen 4 activations are machine specific and cannot be transferred to a different machine. If not using WDT, an 8- to 32-GB USB is required to transfer data to and from the Gen 4 Display. Implement settings are display specific and cannot be imported or exported from the Gen 4 Display.

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