



19 March 2009

AgGPS FmX Integrated Display: Connecting an AgCam Camera

The AgGPS® FmX™ integrated display can receive video input from up to four AgCam cameras. This document describes how to connect the cameras and how to configure the FmX integrated display to receive the video input.

Solution

The following picture shows how the AgCam camera would connect to the FmX integrated display:



To connect the cameras to the FmX integrated display:

1. Mount the camera in a secure location.
2. Route the camera cable to the FmX integrated display.
3. Connect the camera to the FmX camera adapter cable:



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Trimble Navigation Limited, Agriculture Division, 10355 Westmoor Drive, Suite #100, Westminster, CO 80021, USA

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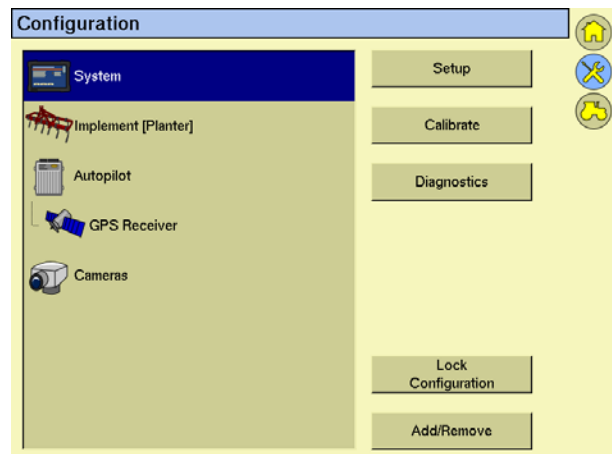
4. Connect the adapter cable to one of the open ports on the FmX integrated display:



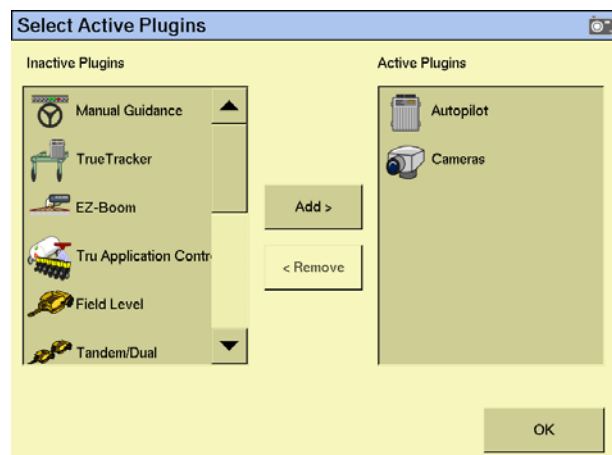
Tip: If all four ports of the FmX integrated display are occupied, connect the adapter cable to the port replicator of the cable occupying the port.

To configure the FmX integrated display to receive the signal from the camera:

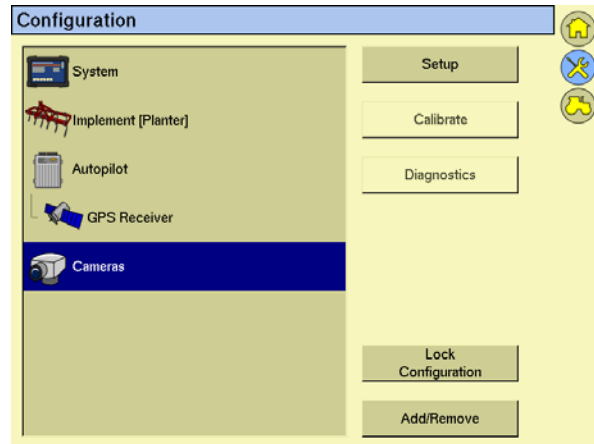
1. Tap the wrench icon on the right side of the screen. The *Configuration* screen appears. Tap **Add/Remove**.



2. From the list of *Inactive Plugins*, select Cameras and then tap **Add**. The cameras will appear in the *Active Plugins* list on the right. Tap **OK** to return to the *Configuration* screen.

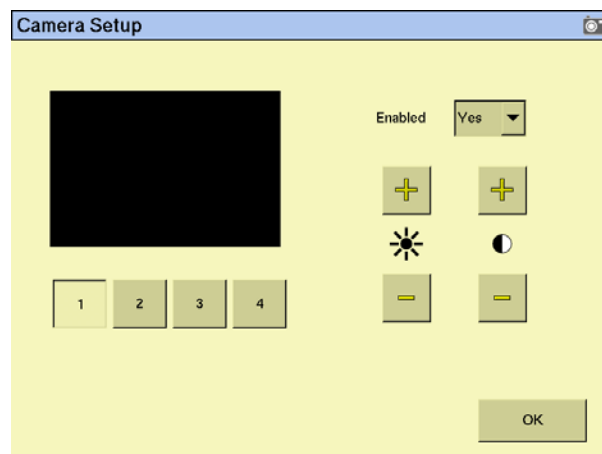


3. Select Cameras and then tap **Setup**.



4. The *Camera Setup* screen appears. For each camera that is connected, change the *Enabled* option from No to Yes. Tap the buttons, **1**, **2**, **3**, or **4** to show the current view of each camera.

Note: If only one camera is connected, change the other three in the Enabled field to No, so that only the one camera can be viewed on the Run screen or on the Home screen. If all four cameras are enabled but they are not all connected, the Camera section appears blank as the screen is tapped to view each of the different camera views.

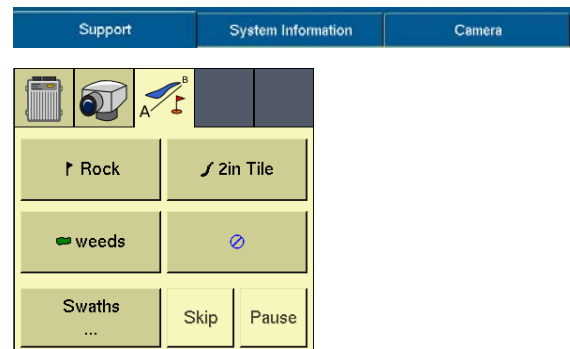


To adjust the contrast and brightness, tap the + and – buttons.

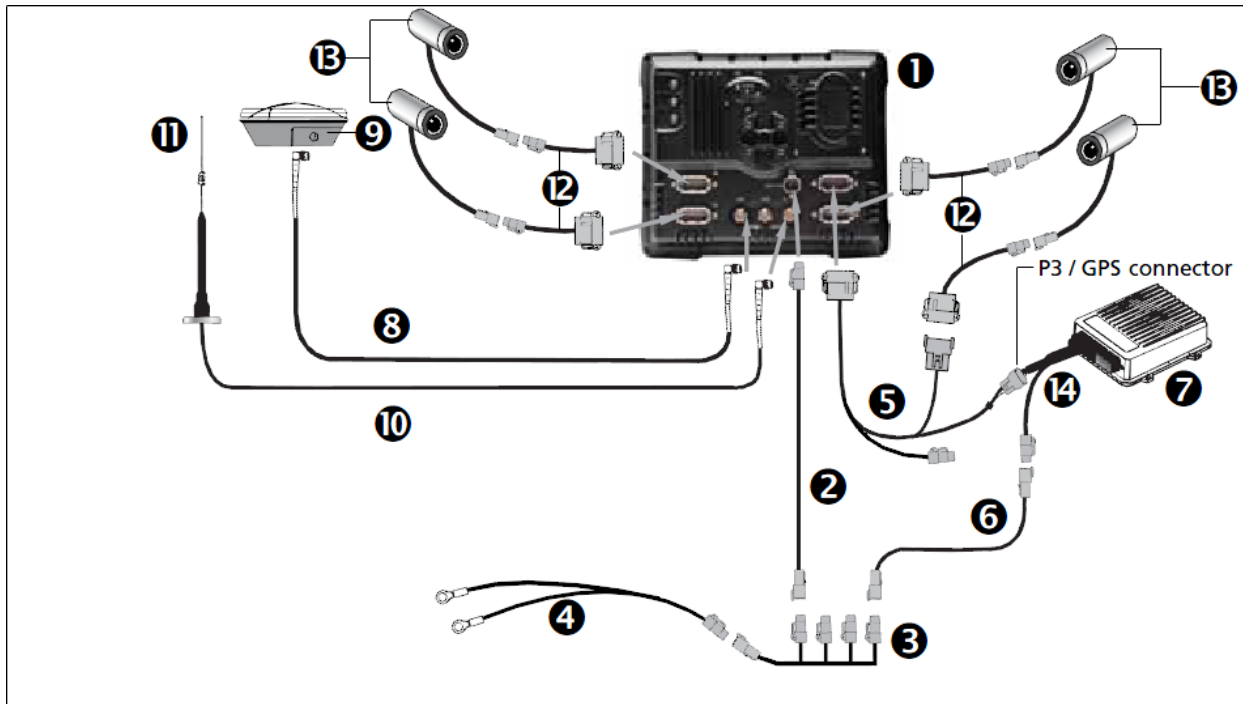
5. Tap **OK** to exit the configuration.

To access the camera view, do one of the following:

- Tap the *Camera* tab on the *Home* screen:
- Tap the *Camera* tab on the *Run* screen:



The following schematic shows the FmX integrated display connected to the AgGPS Autopilot™ automated steering system and four AgCam cameras, while using RTK corrections:



Item	Description	Trimble part number
①	FmX integrated display	93100-02
②	FmX power cable	66694
③	FmX power cable with relay and switch (power bus)	67259
④	Basic power cable	67258
⑤	FmX to NavController II cable with port replicator	65522
⑥	2-pin DTM to 2-pin DT power adaptor	67095
⑦	NavController II	55563-00
⑧	8 m GPS TNC/TNC RT angle cable	50449
⑨	Z-Plus GPS antenna	57200-00
⑩	NMO to TNC 20 ft antenna cable and base	62120
⑪	900 MHz radio antenna kit	22882-10
⑫	FmX to AgCam cable	67090
⑬	AgCam (x4)	
⑭	Main NavController II cable	54601