sentera

FIELDAGENT™

AGX710 GIMBALED SENSOR

Sentera AGX710 Gimbaled Sensor
Powered by DJI SKYPORT

Sentera's gimbal-stabilized AGX710 delivers exceptional agronomic intelligence to the DJI MATRICE™ 200 and 210. Powered by DJI SKYPORT™, AGX710 offers live video and still image download, and full gimbal control.

Agriculture professionals need immediate, accurate crop and field performance information. AGX710, powered by DJI SKYPORT, offers real-time spectral and vision-based status measurements that deliver scouting information to support current workflows. On M210 dual-gimbal configurations, combine AGX710 with a ZENMUSE™ XT to add simultaneous thermal-band collection on the same flight. AGX710 is fully-compatible with Sentera FieldAgent™ analysis, reporting, and API integrations to offer the best combination of connected and connectionless imaging and analytics capabilities.

FEATURES & BENEFITS

- Efficiently capture relevant health indices, variants include: RGB, NDVI, NDRE, and nearly a dozen other specialized index products
- Actively scout fields with live-streaming video options
- Quickly integrate with DJI M200 and M210 drone series using Lock-and-Go gimbal technology
- Seamlessly flow data to FieldAgent Web, Mobile, and Desktop platform; generate shapefiles, support prescription development, and telematics integration
- AGX710 includes 12 months of the FieldAgent Platform

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INSTALLATION OPTIONS

Sentera's AGX710 Gimbaled Sensor is powered by DJI SKYPORT™ - the key to seamless integration with any DJI MATRICE™ 200 Series drone. SKYPORT compliance allows for full control of the AGX710 using DJI Pilot, Sentera FieldAgent™, or any compliant flight app.

AGX710 Sensor
Mounted on DJI MATRICE 200

AGX710 and ZENMUSE XT Sensors
Mounted on MATRICE 210 Drone

SPECIFICATIONS

Sensor Configs.	12.3MP BSI CMOS
Spectral Configurations	**RGB + NDVI |** NDVI: Red (625nm), NIR (850nm) **RGB + NDRE |** NDRE: Red Edge (720nm), NIR (840nm) **Multispectral |** Blue (446nm), Green (548nm), Red (650nm), Red Edge (720nm), NIR (840nm)
Size	3.50" x 3.46" x 3.86" (89mm x 88mm x 98mm)
Weight	270 grams
Power	10W typical / 16W maximum
Image format	Stills: JPEG | Video: MP4
Field of view	60˚ HFOV (4K Stills / Video) 1080p ranges 30˚ - 60˚ HFOV
Data capture	12.3MP Stills 4K Ultra HD video @ 30fps 1080p/720p Video

Gimbal	**Mount:** Detachable **Controllable Range:** Tilt: 0˚ to -90˚, Pan 0˚; Roll 0˚ **Mechanical Range:** Tilt: +25˚ to -115˚, Pan 0˚; Roll ±40˚ **Max Controllable Speed:** 50˚/S
Storage	64GB Micro SD card
Flight Endurance	M200 & AGX710: 35 Minutes M210 & AGX710 + XT Thermal: 28 Minutes
Mapping Efficiency*	QuickTile™ Map: 500 acres typical Orthomosaic Map: 150 acres typical
Ground Sample Distance	3.5cm
FieldAgent Platform	Seamless integration! AGX710 imagery is compatible with analytics around stand and emergence, variability, biomass, nutrition, pest, weed, & disease

* Assumptions: 35 minute flight, 17 m/s

FIELDAGENT WEB, MOBILE & DESKTOP PLATFORM

The FieldAgent Platform is a complete agricultural data analytics solution that provides deep, actionable insights. Coupled with a Sentera AGX710 Gimbaled Sensor, FieldAgent takes you beyond aerial photos into meaningful data products with actual economic value. Sentera analytics around stand and emergence, variability, biomass, nutrition, pest, weed, and disease status are compatible with AGX710 imagery.

FieldAgent Web, Mobile, and Desktop

FieldAgent Mobile iOS

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POWERED BY DJI SKYPORT

Contact us—let's do something amazing!

Sentera, LLC
6636 Cedar Ave South, Ste 250
Minneapolis, MN 55423

+1 (844) SENTERA (844.736.8372)
+1 (612) 204.2000 direct

www.sentera.com
info@sentera.com

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