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iX Controller MKIII

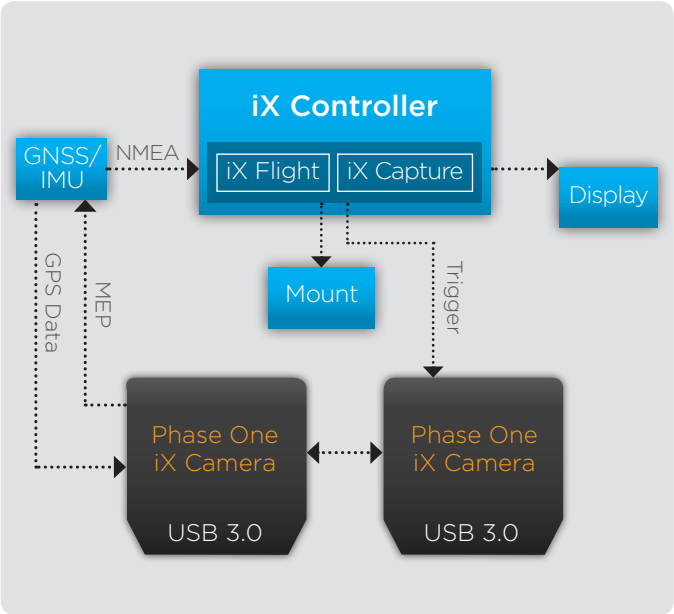
Ultimate Speed and Control

Capturing aerial data today demands fast computers optimized to work with aerial cameras and capture software. With all of the components working together, you need to be able to capture, monitor and store images, and to change camera settings as conditions change.

Phase One introduced the iX Controller MKIII as the perfect companion for the iX Capture application or SDK-based application and Phase One aerial cameras.

Designed to provide the ultimate in speed, and with the ability to control multiple Phase One aerial cameras, the iX Controller is built as a workhorse, with a small footprint and easy integration into any aircraft. It acts as a central hub of Phase One's aerial cameras and controls the camera, the gyro-stabilizing mount, the GNSS/IMU system and runs the capture application and the flight management system. It utilizes the new I/O port, which enables accurate activation of multiple cameras by a flight management system installed on the controller.

The iX Controller has a single power input connected to the power source on the aircraft, and multiple power output for the different cameras. It also supports dual monitors so both the pilot and the operator are able to monitor and observe different views of the setup in parallel.



Solid State Drives

The iX Controller employs two removable SSD drives, which have especially high write speeds to ensure you capture and record every image quickly and reliably. When the mission is over, the compact and light SSD drives are easily removed from the iX Controller and sent for processing.

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Features

iX Controller, the powerful PC workhorse, comes with Phase One software pre-installed and ready for quick integration.

- Intel® Core™ i7 processor
- Fanless cooling
- Rugged construction
- 8 GB of RAM
- Power and drive multiple cameras
- Pre-installed with iX Capture and Capture One DB
- Two removable solid state drives (SSD) with optional RAID system for data mirroring
- Unlimited storage with multiple SSD drives (max. capacity per SSD pair — 28,500 images)

Specifications

CPU	Intel® Core™ i7 Processor (8M Cache, up to 3.90 GHz)
Operating system	Windows 10 Enterprise
Memory	8 GB DDR-4 RAM
Mount	Built-in bracket for attaching to aircraft
Cooling	Fanless/Passive
Build	Rugged metal construction with external cooling fins
Software pre-installed	• iX Capture • Capture One DB
Data storage	• Dual 512 GB 2.5" SSD drives with ultrafast write capability (up to 500 MB/sec) • Expandable

Image storage capacity

Camera	IIQ-L*	IIQ-S*
100 MP	9,000	13,500
80 MP	12,000	18,000
60 MP	16,000	24,000
50 MP	19,200	28,500

*For average file size

USB 3.0	6 ports
I/O Ports	RS232, Hardware Interface I/O
Ethernet	2 RJ45 ports
Display	DP, HDMI
Power terminals	6
Power connection	Locking power connector
Fuse	2 x 10 A circuit breakers
Power input	28 V DC
Maximum power consumption	• Single camera — 120 W • Multiple cameras (up to 6) — 220 W
Dimensions	290 x 109 x 225 mm / 11.4 x 4.3 x 8.9 in (W x H x D)
Weight	3 kg / 6.61 lb
Approvals	FCC (Class A), CE, RoHS

Operating Conditions

Temperature	-10° to 40° C (14° to 104° F)
Humidity	5 to 95% (non-condensing)