The most productive wide-area
camera solution for aerial mapping

PAS Pana

PHASE**ONE**

PAS Pana

PAS Pana, a versatile mapping system, is tailored for extensive national and country-wide mapping. Its large swath of 48,800 pixels allows to capture country-wide areas while keeping flying lines, hence flying time at the minimum. PAS Pana offers various resolution options to suit diverse needs. It delivers exceptional high resolution at 2.5 cm Ground Sample Distance (GSD) for intricate details and up to 30 cm GSD for rapid wide-area coverage. This flexibility allows you to customize it to meet specific mission requirements, whether focusing on fine details or wide coverage.

PAS Pana also grants you full data ownership, freeing you from content program constraints. When paired with the entire iX Suite workflow, it ensures effortless data quality control from the outset. Streamlining your data import process is made easier by utilizing our proprietary raw image format, IIQ (Intelligent Image Quality).

PAS Pana is the only wide-area camera system unleashing maximum productivity, resolution on demand, and full data ownership.

Achieve the highest productivity

- 48,800-pixel swath for wide area coverage.
- Minimize flight hours and capture more data in less time.
- Pair it with iX Suite where IIQ format importing saves precious image conversion time.
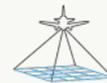
Adjust resolution to your needs

- Operated with a broad range of resolution options according to your needs.
- Wide range of GSD coverage from 2.5 cm to 30 cm.

Embrace the freedom to choose

- Plug-and-play design for any aircraft type.
- Use our iX Suite workflow to ensure data quality from the earliest stage.
- Choose any preferred post-processing software supporting multi-head systems.

Own your data

- Free from content program restrictions.
- Versatility for diverse mapping endeavors.

PAS Pana
Technical specifications

		RGB	NIR
SENSORS	Frame geometry	Central Projection	Central Projection
	Sensor type	BSI CMOS Bayer Array	BSI CMOS Achromatic
	Sensor size	150MP 14,204 x 10,652	150MP 14,204 x 10,652
	Pixel size (µm)	3.76	3.76
	Sensor arrangement	5x RGB sensors in portrait orientation	2x NIR sensors in landscape orientation
	Nominal focal length (mm)	150	70
	Shutter technology	Electromagnetic	Electromagnetic
	Shutter speed max.	1/2500	1/2000
	Dynamic range (dB)	83	83
	Light sensitivity (ISO)	50-6400	50-6400
	A/D conversion (bits)	14	14
	Aperture	f/5.6	f/5.6
	Field of view for complete system	20.2° along track 70.0° across track	31.9° along track 70.0° across track
SYSTEM	Capture (fps)		1.7
	Internal storage		Integrated, 6x4 TB
	GNSS receiver/IMU		Integrated, Trimble Applanix AP+, Applanix IMU 57
	Data interface		USB 3
	Dimensions [Ø] (mm)		408 x 716
	Weight (kg)		47
	Operating temperature (°C)		-10 to 40
	Humidity (%)		15 to 80 (non-condensing)
	Storage temperature (°C)		-20 to 65
	Sensor control software		iX Flight Pro
	Peripherals		7" Pilot display, 15.6'' or 21'' Operator display, Input devices
	Stabilized mount		GSM4000
	Average power consumption (W)		400
	Max. power consumption (W)		470

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Footprint
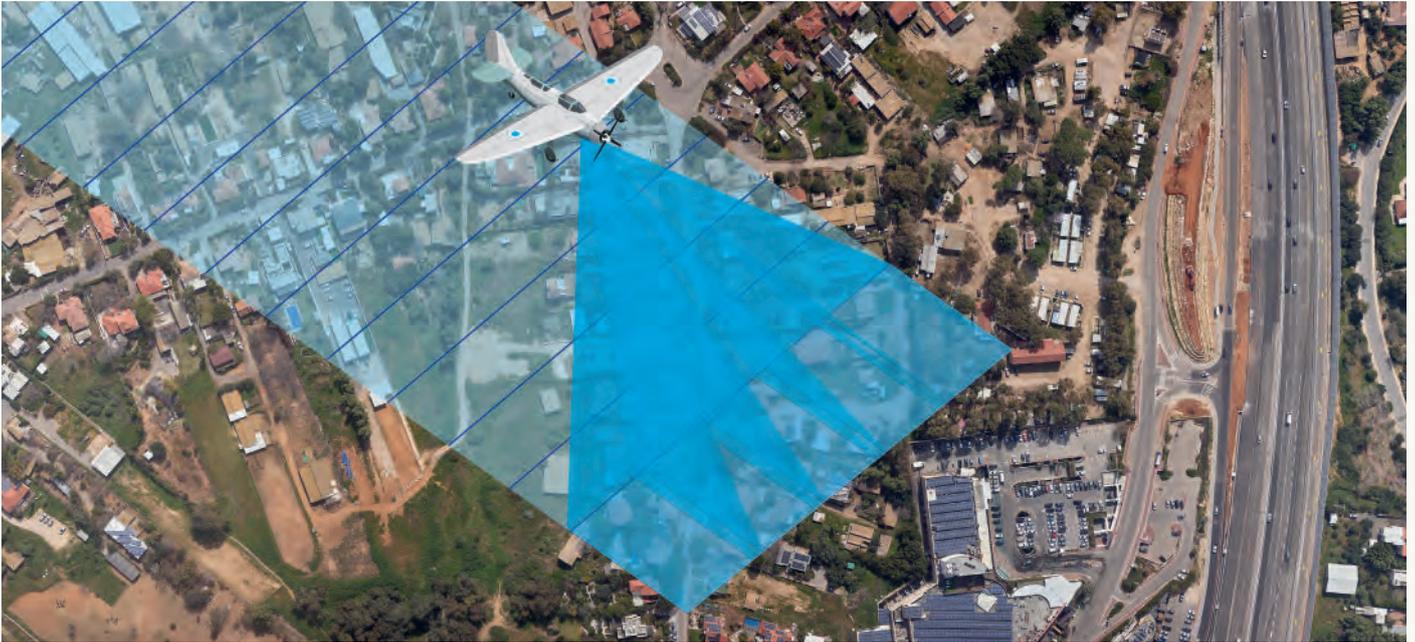
Operation specification

3.76 µM BSI CMOS	70/150 mm RS = 1/2500 s	24 TB of storage	Stabilization mount	Integrated GNSS/ IMU solutions	1.7 frames per second	Realtime image analysis and quality control	RGB and NIR sensor enabling 4-band images

geospatial.phaseone.com