

P3 Payload 50MP & 100MP

Unmatched Inspection
Productivity & Versatility

P3 for DJI M300



PHASE**ONE**

Where small details makes a big difference



High Value Assets Inspection

Most large infrastructure projects require not only frequent inspections, but also a detailed inspection with the highest quality and consistency as the consequences of missing even small faults can have massive financial implications.

Examples

- Bridges
- Dams
- Nuclear Facilities



High Risk Assets Inspection

For many inspections getting up close is not an option as this would entail a great risk not only for the UAV but also for the asset being inspected. Achieving high quality images in these high-risk inspections' tasks is an unmet challenge.

OPERATOR

Examples

- Power masts
- Oil refineries



Time Critical Asset Inspections

Sometimes you don't get a second chance. In these situations, it is critical that the images contains the required information as repeating the inspection can be difficult due to external conditions.

Examples

- Offshore/near shore windturbines
- Offshore oil rigs

Whats in the box

Chose your gimbal

- DJI or MAVLink Gimbal
 - w. Integrated Laser Range Finder
- Dampning Plate
- Interface Cable
- Interface Documentation



Chose your sensor

- iXM 50MP or 100MP



Chose your lens

- RSM 35mm, 80mm or 150mm*
 - Metrically calibrated from factory



*150mm only available for platforms
with a Payload capacity of +2,7kg

Productivity Delivered

The P3 Integrated Gimbal leverages on Phase One's proven and trusted technology to deliver unmatched inspection productivity.

The P3 offers:

1. Most Versatile Platform Support – Your Business, Your Decision
2. Best in class sensor performance – Making the most out of every flight
3. Largest image sensor – Capturing more in every shot
4. Widest range lenses – Getting the details from a distance
5. Smart Focusing – Making every shot count



Productivity Driver: Integrated Workflow



DJI M300

Existing Platforms – Instant Payback

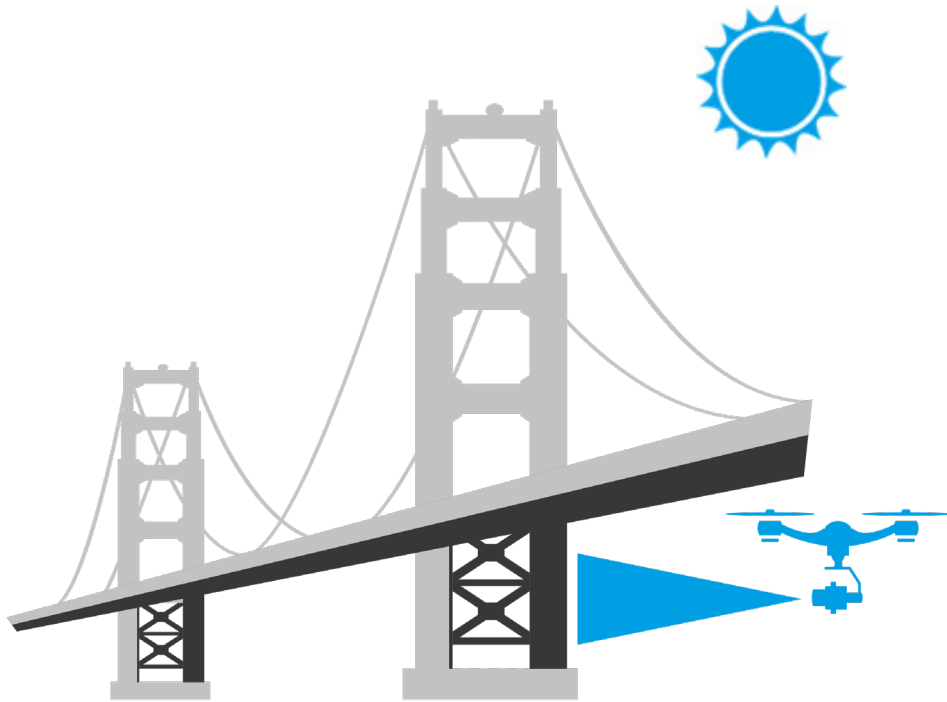
P3 DJI – Ready for Flight

The P3 payload for the DJI M300 is a ready-for-flight, plug-and-play solution that gets you started from day one with the tools you already have and deliver higher value to your customers.

P3 DJI provides:

- Turnkey integration with the DJI Pilot App eliminating the need for retraining of your pilots
- Increased productivity through an extended lens offering
- Maximum utilization and uptime of your existing M300 fleet by enabling new applications

Productivity Driver: Best in Class Sensor Performance



Extended Operations – Higher Availability

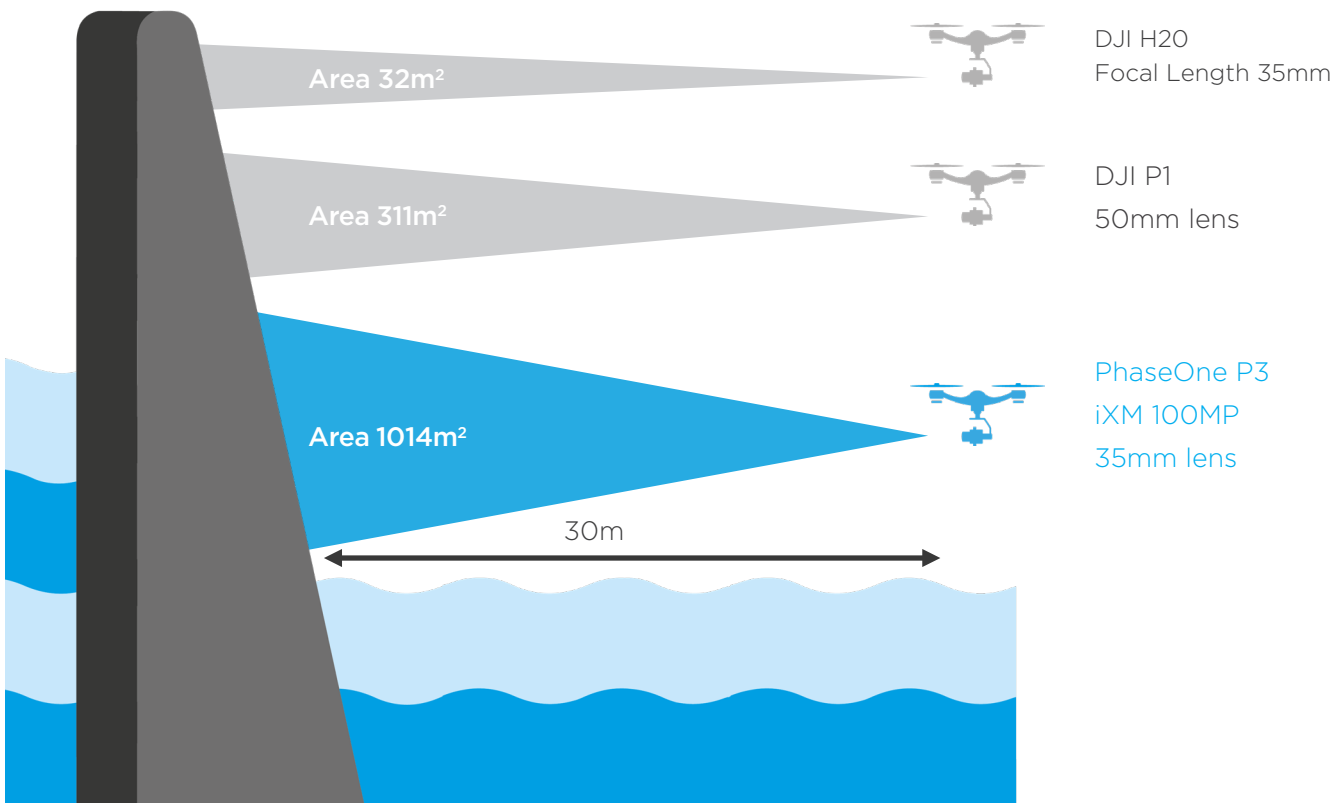
- Superior Performance in Low light & High Contrast Situations

The iXM boast a dynamic range of 83dB with Back Side Illuminated (BSI) Sensor technology allows high dynamic range and low noise at optimized pixel size

- Advance Image processing to maximize 14-bit raw image capture to accurate RGB TIFF files

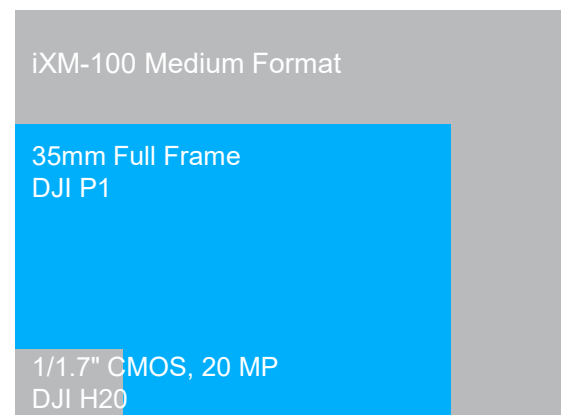
Productivity Driver: Largest Image Sensor

Ground Sampling Distance
<3mm w. widest lens combination

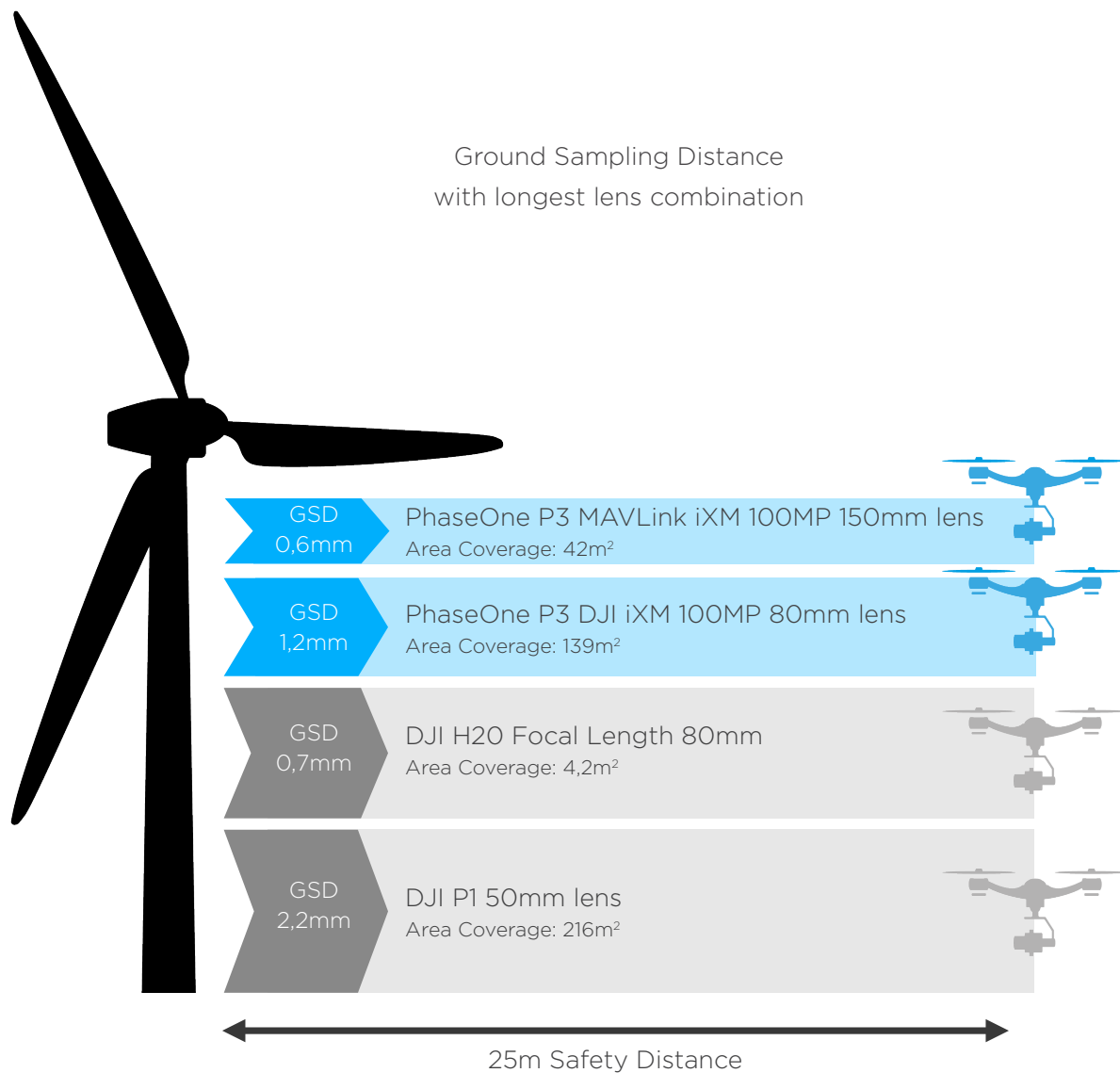


More Coverage - Fewer Images - Faster Missions

The iXM sensor has for many years been the reference for medium format sensors for manned large area, high resolution aerial photography. The medium format sensor is 2,5x larger than a normal 35mm Full Frame Sensor. This translates directly into inspection productivity



Productivity Driver: Broadest Range of Lenses



Longer Distance - More Details – Increased Safety

- The lens offering increases the productivity and ensure safe operations, without compromising on Image quality.
- All of PhaseOne's lenses are calibrated from the factory to the highest quality standards.
- Best Coverage to GSD Ratio



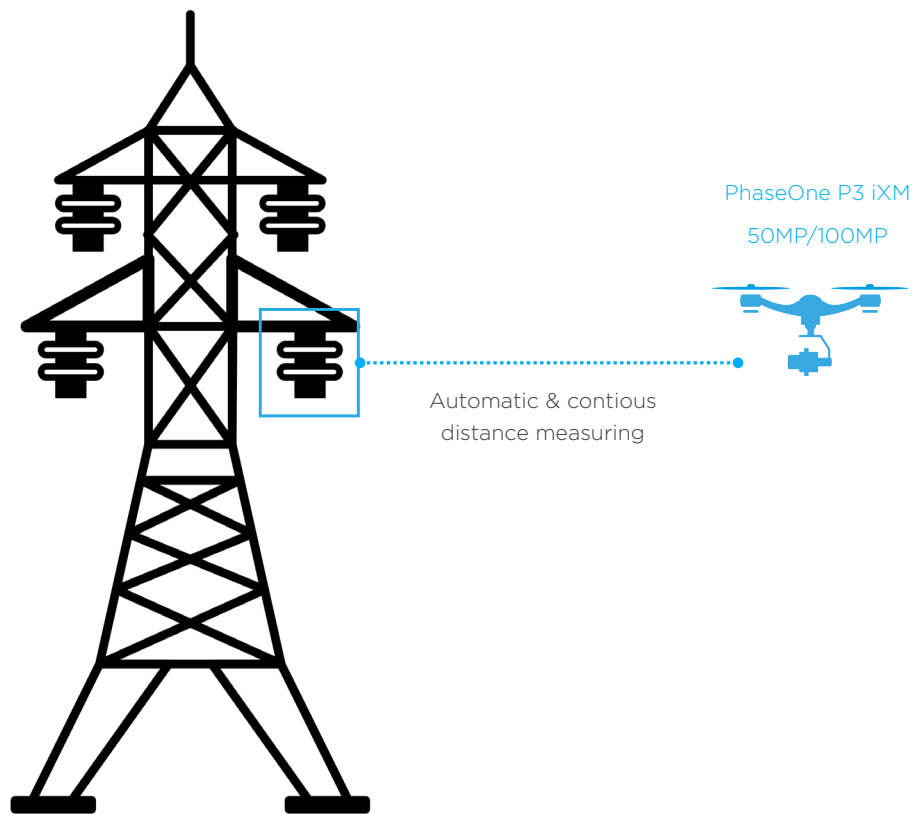
RSM 35mm f/5.6 ▶

RSM 80mm f/5.6 ▶

RSM 80mm AF f/5.6 ▶

RSM 150mm AF f/5.6 ▶

Productivity Driver: Smart Focus



Smart Focus - Sharper Images – No Repetition

Onsite inspection productivity depends on the ability to capture the right data. End-to-End productivity means that the data has to be consistently of a high quality. PhaseOne utilizing a Smart Focus system to ensure that the image sharpness is consistent.

Specifications

	P3 DJI	P3 Mavlink
Weight w. 80mm AF Lens	2,6kg	
Sensor	iXM 50MP & 100MP	
Stabalization	3 Axis	
Mechanical/Electronic Interface	DJI M300 Damping Plate Skyport V2	P3 Damping Mount P3 Quick Release System P3 MAVLink Interface Cable
Laser Range Finder	180m	
Supported Lense Range	35mm & 80mm	35mm, 80mm or 150mm
Camera Control	Manual Capture, Auto capture, Live Video, ISO, Shutter Speed, Exposure, AE, Focus Distance, AF	
Live view	HDMI	
Smart Focusing	Automatically set the focus distance based on the integrated Laser Range Finder	
User Interface	DJI Pilot PhaseONE iX Capture Mobile	MAVLink Compatible PhaseONE iX Capture
Software Interface	DJI Payload SDK	MavLink Payload SDK
Hardware Interface	DJI	Tested on PixHawk 4.0
Supported Platforms	DJI M300	Mavlink Based Platforms



<https://geospatial.phaseone.com/drone-payload/p3-payload-for-drones/>

About Phase One

Phase One A/S is a leading researcher, developer and manufacturer of medium format and large format digital cameras, software and imaging solutions.

Founded in 1993, Phase One is a pioneer of digital photography. Phase One has developed core imaging technologies and a range of digital cameras and imaging modules. Phase One provides the world's highest image quality in terms of resolution, dynamic range, color fidelity and geometric accuracy. As such, Phase One has grown to become the leading provider of high-end imaging technology across many business segments. This includes both hardware and software for aerial mapping, industrial inspection and cultural heritage digitization, as well as serving the world's most demanding photographers.

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