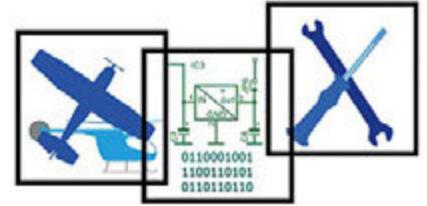
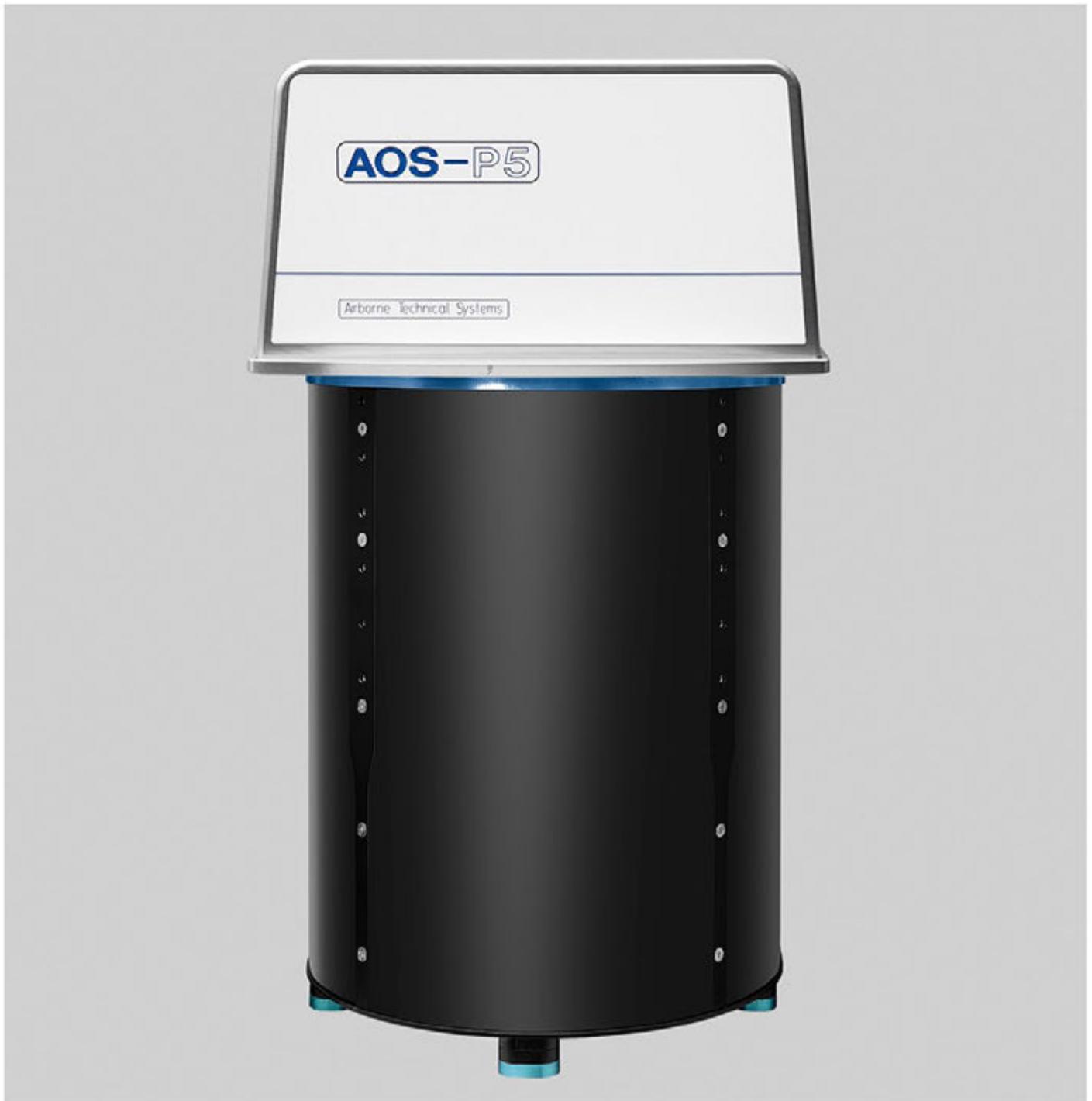


the best way to your 3D city model



Airborne oblique camera systems equipped with
PHASE**ONE** cameras up to **5x 150 MPix**



ATS integration partner of
PHASEONE
INDUSTRIAL

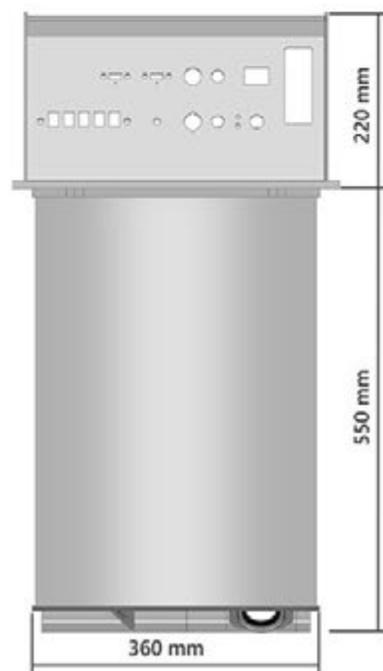
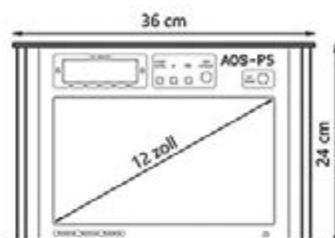
Airborne Technical Systems
specialists in the field of airborne remote sensing

AOS-P5

airborne oblique camera system



operating monitor



Airborne Technical Systems
specialists in the field of airborne remote sensing

AOS-P5

the ready to fly multisensor oblique complete solution for your 3D city model

The AOS-P5 can be delivered with a complete GNSS/IMU system from Applanix, For this we offer the well established software bundle from Phase One, it consists of the iX Plan software for flight planning and the iX Flight software for flight operation.

Total equipment of the AOS-P5

5 cameras from Phase One according to your selection

Phase One iX Controller MK4 for camera control and image data storage in the AOS-P5 system.

The following GNSS/INU Applanix packages can be integrated into AOS-P5:

Applanix POS AVX210

Applanix POS AV310

Applanix POS AV510M

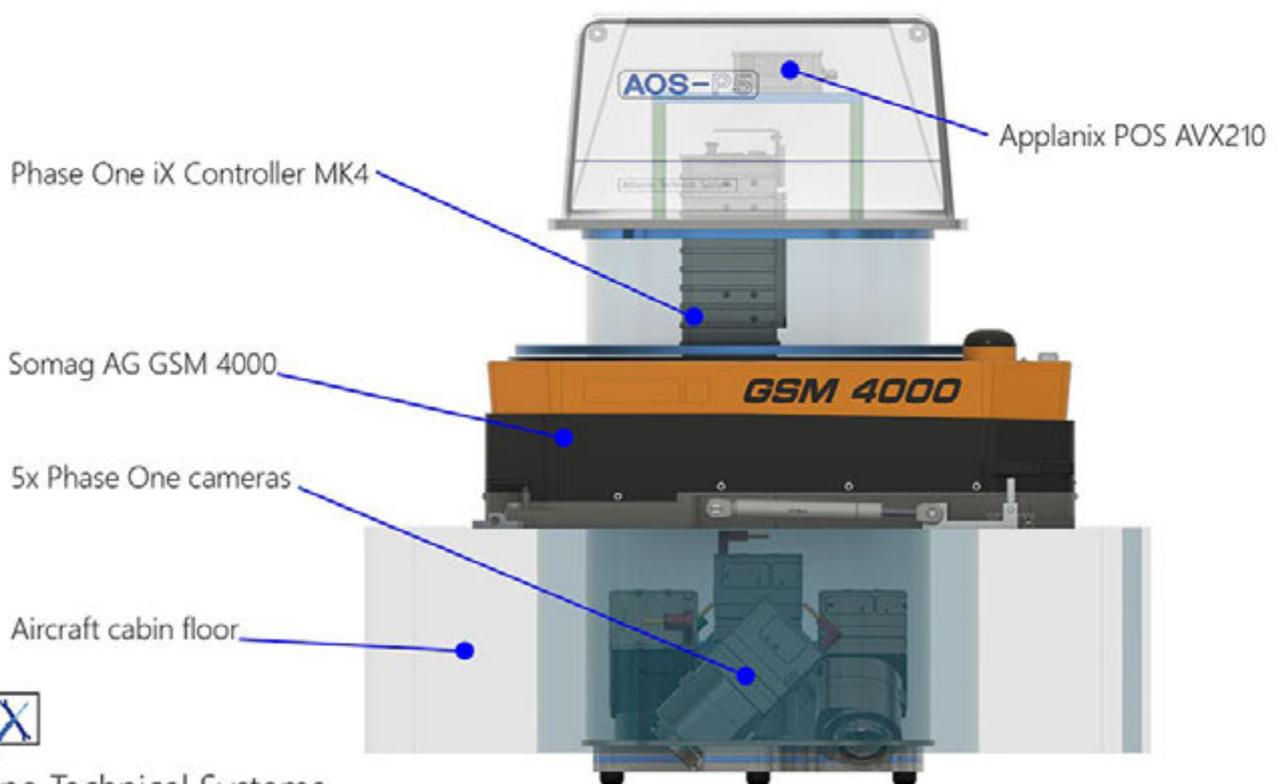
Applanix POS AV610

A calibration protocol can be ordered for all Phase One cameras integrated in the AOS-P5. If desired, the AOS-P5 can also be delivered with a full system calibration.

Additionally, the AOS-P5 can be delivered with a GSM 4000 stabilization platform from Somag AG

<https://industrial.phaseone.com/Downloads.aspx>

https://industrial.phaseone.com/Aerial_Systems.aspx



The AOS-P5 can be equipped with the following Phase One cameras

AOS-P5 with
Phase One
iXM-100

complete AOS-P5 system

operating voltage	20 V to 30 V DC
duration power consumption	300 W
peak current consumption	650 W
maximum total storage capacity	5x 4TB SSD
maximum storage capacity per camera	34.000 images
frame rate of the full system	0,5 seconds
total weight	38 Kg

to be mounted on all platforms with a minimum diameter of 390 mm

oblique cameras

camera type	Phase One iXM-100
focal lengths	80 mm
tilt angle	40° to 45°

nadir camera

camera type	Phase One iXM-100
image size	11.664 x 8.750 pixels
physical pixel size	3,76 µm x 3,76 µm
sensor dimensions	33 x 44 mm
sensor type	CMOS RGB 100 mega pixels
focal lengths	80 mm
shortest shutter speed	1/4000
shutter type	central shutter
frame rate	0,33 seconds
total field of view, across track	30,4°
total field of view, along track	23,0°
flying height for 10 cm GSD	2128 m / 6982 ft

AOS-P5 with
Phase One
iXM-RS150F/
iXM-RS100F

Phase One iXM-RS100F

nadir camera

camera type	Phase One iXM-RS100F
image size	11.608 x 8.708 pixels
physical pixel size	4,6 x 4,6 µm
sensor dimensions	53,4 x 40,0 mm
sensor type	CMOS RGB 100 mega pixels
focal lengths	90 mm
shortest shutter speed	1/4000
shutter type	central shutter
frame rate	0,7 seconds
total field of view, across track	33,0°
total field of view, along track	25,1°
flying height for 10 cm GSD	1950 m / 6398 ft

oblique cameras

camera type	Phase One iXM-RS100F
image size	11.608 x 8.708 pixels
physical pixel size	4,6 x 4,6 µm
sensor dimensions	53,4 x 40,0 mm
sensor type	CMOS RGB 100 mega pixels
focal lengths	110 mm
shortest shutter speed	1/4000
shutter type	central shutter
frame rate	0,7 seconds
angel of view of long side	27,3°
angel of view of short side	20,6°
tilt angle	40° to 45°

complete AOS-P5 system

operating voltage	20 V to 30 V DC
duration power consumption	300 W
peak current consumption	650 W
maximum total storage capacity	5x 4TB SSD
maximum storage capacity per camera	34.000 images
frame rate of the full system	0,7 seconds
total weight	40 Kg

to be mounted on all platforms with a minimum diameter of 390 mm

Phase One iXM-RS150F

nadir camera

camera type	Phase One iXM-RS150F
image size	14.204 x 10.652 pixels
physical pixel size	3,76 x 3,76 µm
sensor dimensions	53,4 x 40,0 mm
sensor type	CMOS RGB 150 mega pixels
focal lengths	90 mm
shortest shutter speed	1/4000
shutter type	central shutter
frame rate	0,5 seconds
total field of view, across track	33,0°
total field of view, along track	25,1°
flying height for 10 cm GSD	1950 m / 6398 ft

oblique cameras

camera type	Phase One iXM-RS150F
image size	14.204 x 10.652 pixels
physical pixel size	3,76 x 3,76 µm
sensor dimensions	53,4 x 40,0 mm
sensor type	CMOS RGB 150 mega pixels
focal lengths	110 mm
shortest shutter speed	1/4000
shutter type	central shutter
frame rate	0,7 seconds
angel of view of long side	27,3°
angel of view of short side	20,6°
tilt angle	40° to 45°

complete AOS-P5 system

operating voltage	20 V to 30 V DC
duration power consumption	300 W
peak current consumption	650 W
maximum total storage capacity	5x 4TB SSD
maximum storage capacity per camera	26.000 images
frame rate of the full system	0,7 seconds
total weight	40 Kg

to be mounted on all platforms with a minimum diameter of 390 mm

AOS systems
can be used
on all
platforms with
a diameter
of 365 mm



AOS-P5 can be equipped with all Phase One cameras

The new iXM 100MP and iXM 50MP are high-productivity metric cameras with a range of specially designed RSM lenses. The cameras deliver superior quality aerial imaging and flexible operation to satisfy diverse mapping, and surveying. The iXM supports super-fast storage capabilities. For more information visit:



The new iXM-RS150F/ iXM-RS100F is a true metric calibrated camera depends on sophisticated engineering and structural integrity of the camera. Each Phase One camera design undergoes rigorous testing for vibrations and temperature ranges. Every camera is subjected to tests for functionality and performance as it goes through the assembly process. All cameras employ mechanisms to solidly lock their lens to the camera body and secure lenses at infinity focus if necessary. Despite the inflight vibrations and sudden movements during takeoff or landing that the camera might be exposed to, the consistency and the rigidity of the camera and lens provide metric data with pinpoint accuracy for mapping and other applications.

Unique Features

- High resolution, with a pixel count of:
 - 14204x10652 for the iXM-RS150F
 - 11608x8708 for the iXM-RS100F
- 3.76µm pixel size for the iXM-RS150F
- 83dB Dynamic range for the iXM-RS150F
- Backside-illumination technology for the iXM-RS150F
- 2 fps fast capture rate for the iXM-RS150F
- Seven RS lenses calibrated to infinity focus by Phase One
- USB-C and 10G Ethernet for versatility of connectivity.

For more information visit: www.industrial.phaseone.com



Airborne Technical Systems
<http://www.ats-berlin.eu>

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D-10115 Berlin | fax: (+49/30) 4473 7663
Germany | email: hp@ats-berlin.eu

With our profound experience in manufacturing airborne systems we are one of the few specialists in this field. We accompany you in each step formulate the demands on an airborne system together. We design only according to your requirements a custom system for remote sensing. Even after installation, we assist you with advice and practical help – abroad. Our references speak for us.

ATS integration partner of

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