

Airborne Technical Systems

Specialist in the field
of airborne remote sensing technology

development
construction
integration

accurate
innovative
reliable





**up to 5 x 150 Megapixel
with cameras from
Phase One**

Aero Oblique System (AOS)

The Oblique Camera System AOS from ATS is equipped with five cameras, four oblique cameras and one nadir camera. The AOS has a modular design and can be equipped with all Phase One cameras, and the Nikon D850 cameras. The AOS can be configured for any mission profile and budget. The AOS can be operated in all platforms with a diameter of at minimum 390 mm, for example into the platforms of Somag AG GSM 4000 / 3000 / 2000. Each AOS contains a mounting base for an IMU. The AOS can be controlled with all flight management systems, it has five exchangeable SSD hard disks with a capacity up to 4 TB.

ATS
integration partner of
PHASEONE
INDUSTRIAL



**camera controller for
all Phase One cameras**

Camera Control Unit (CCU 4.1)

The **CCU 4.1** is a compact camera controller for PhaseOne Industrial cameras (<http://industrial.phaseone.com>). Two IXU or IXM cameras are connectable. The CCU 4.1 is equipped with DC power connectors for two cameras and two monitors. Two SSD removable hard disks with a capacity of 4 TB are available for image data storage. The mounting points for installation in an airplane or helicopter can be adapted to the needs of the customer. An i7 processor with 64 GB of RAM provides a high data acquisition rates for high-resolution image data of the PhaseOne cameras.

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



4x Thermal cameras and 4x RGB cameras

Aero Oblique System (AOS-T)

AOS-T is the automated capturing of oblique images in four directions with four thermography- and four RGB cameras. It makes from all objects oblique images. The AOS-T can be mounted in airplanes, GyroCopters or helicopters with platforms as GSM to 2000 / 3000 / 4000 having an internal diameter of min. 390 mm. All common Flight Management Systems may be used for controlling the AOS-T. There are ports for release and event.



Complete solution for airborne remote sensing

AC-8-Gyro complete system

The AC-8 Gyro Overall System includes three sensors, a RGB camera, a thermal imaging camera and a hyperspectral sensor. The entire system is modifiable according to customer requirements. The system is developed for the gyrocopters Cavalon.

- vibration-damped system and sensor platform to install all components in the gyrocopter
- battery pack for a system test on the ground without running the engine
- power supply and distribution unit to connect all systems to the board power
- computer with i7 processor to control the remote sensing sensors
- monitors to control and monitor the systems
- AC-8-Cam, 45 MP aerial camera
- installation option for the Riegl scanner Q560, Q680 and Q780
- mounting option for IMU
- easy and fast installation (approx. 1 hour to 2 hours, depending on the sensors needed)



Data backup station for Riegl Scanner 2x2 backup hard disks

Storage Unit (SU 2.0)

SU 2.0 is a backup station for laser data from Riegl Laser Scanner. With the SU 2.0 can save backups of data from the Riegl laser scanners Q560, Q680 and Q780.

The SU 2.0 is a powerful computer with two removable drive carriers from Riegl DR 680 and two removable drive carriers for the backup disks.



Remote controllable power supply for airborne remote sensing systems

APU Remote Control Power Supply System from ATS

the ATS power supply system can be adapted to the individual requirements of the customer. they are developed and manufactured are optionally remote controllable. All plug systems can be installed according to customer requirements, such as Lemo or Mill. The devices can be delivered with or without accumulator. In the delivery program we also have stand-alone accumulators.

Our power supply system can be used in helicopters or airplanes, With APU systems, remote sensing equipment can be started up and tested before the engine starts. During the refueling break, your systems do not have to be shut down, which saves a lot of time.

here are some example data:

- input voltage: DC 22V – 30V
- output: 24V DC 7x, max. 30A total
- output: 230V AC max. 250W
- LAN switch Ethernet 4x 1Gb
- battery capacity: 2x 12V 12Ah
- dimensions APU 4.0: W: 520mm, H: 153mm, D: 400mm
- weight with battery: 25 Kg
- weight without battery: 17 Kg
- dimensions APU RC 4.0: W: 170mm, H: 90mm, D:35mm

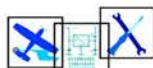
you can find more information at: www.ats-berlin.eu

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Development, construction and production from one hand

All from one hand
any mechanical work we make with our own CAD-milling machine and lathe from the CAD drawing up to the completed system. In the field of electronics, we can manufacture everything from wiring diagrams up to our own SMD-circuit boards ourselves. For programming, we have our own software developer. In this way, we are flexible and can respond individually to customer needs.



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<http://www.ats-berlin.eu>

Rheinsberger Str. 59 fon: (+49/30) 4432 4295
D-10115 Berlin fax: (+49/30) 4473 7663
Germany fu: +49/171 630 25 96
email: hp@ats-berlin.eu