

## PC-6 SPECIAL MISSION SURVEILLANCE/BROADCASTING/PHOTOGRAPHY



The Pilatus PC-6 Turbo Porter has become a legendary aircraft, known around the world simply as 'The Porter'.

As its name suggests, the Porter was designed as a versatile carrier capable of moving passengers and freight around in all weather and terrain conditions.

To achieve this the aircraft has a unique combination of airframe and flight characteristics that also make it ideal for a range of special missions. The versatility of the Porter to be equipped for a range of specialised operations which have been carried out worldwide has contributed to the continued development of special mission equipment for the aircraft.

The Surveillance/Broadcasting equipment now available for the Porter is an example of Pilatus Aircraft Ltd's dedication to helping customers maintain a competitive edge.

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# PC-6 SPECIAL MISSION

## SURVEILLANCE/BROADCASTING/PHOTOGRAPHY

The Pilatus Porter is capable of a wide range of special missions including operations such as border patrol, aerial surveillance, aerial photography and photogrammetry. The aircraft has an airframe and flight characteristics which make it ideal for these kinds of special missions.

A specially integrated surveillance system package has been incorporated with a certified power arrangement which is independent from the aircraft's cockpit systems and a mechanical platform which can accommodate a wide range of sensor equipment.

### AIRFRAME

- A high wing and sliding cabin doors enable easy access, loading, quick cabin configuration changing and unobstructed sideways/downward views.
- Twin mainwheels with single tailwheel undercarriage has high bump absorption and maintains a high propeller ground clearance.
- Combined with low pressure tyres and high performance braking equipment this arrangement enables the aircraft to operate from airstrips which are unsuitable for aircraft with a more conventional nosewheel-type undercarriage.
- Standard equipment twin-door floor hatch which can be opened and closed in flight.

### FLIGHT

- Short take-off and landing (STOL) performance, even in hot and high environments, allows the PC-6 access to remote areas otherwise only accessible by helicopter.
- Capable of low-level flight in narrow valleys and up to a service ceiling of 25,000 ft.
- Stable, low-speed, quiet flight capability.
- Excellent fuel economy and range. With long-range underwing tank option, up to 7.5 hours endurance can be achieved.

### INTEGRATED SURVEILLANCE SYSTEM PACKAGE

Because of the PC-6's suitability Pilatus has developed a specially integrated surveillance system package which includes:

- A new 250 ampere power distribution system, two separately controlled mission busses and a 2 x 40 ampere power socket enable a camera and/or a search or scanning sensor head to be operated without any in-flight effects on the avionics and instrument systems.

- A light-weight mounting platform which can easily be installed above the floor hatch to accommodate most types of static and dynamic surveillance equipment.
- Unlimited data storage capability (cd, hard drive, etc.) with a data downlink provided on request.
- An oil collector system can be installed for special mission operations to protect the camera lens and all sensor heads.

Various systems such as FLIR (Forward-Looking Infrared), LIDAR (Light Detection And Ranging) and other optical platforms have been certified for operation with the aircraft and can be integrated into the airframe without design changes.

### STATIC INSTALLATIONS

The PC-6 has been an ideal platform for aerial photography for many years and is still highly desirable in this role. Various types of static camera equipment and other imaging systems can be quickly installed to customer specification.



Installation of a static aerial photography system

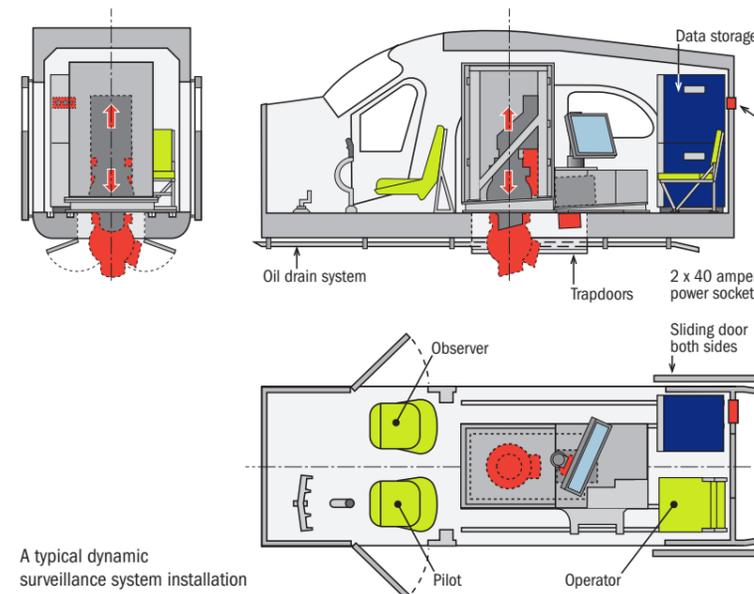
### DYNAMIC INSTALLATIONS

A typical dynamic, multi-sensing surveillance and monitoring system installed in a PC-6 provides the following capabilities:

- Combined true high definition resolution electro-optical and high sensitivity thermal imaging.
- Gyro stabilisation for advanced detection and identification.
- Continuous zoom capability.
- Laser range-finding, pointing and geo-mapping.
- Infrared detection.

The system can be programmed and monitored by the operator stationed in the rear of the cabin. All functions, such as lowering, rotating and raising the sensing head can be carried out using an operator console.

Various arrangements for customer-specific requirements are available. We can provide a customer's individual setup on request.



A typical dynamic surveillance system installation



Dynamic camera system on retractable platform which can take different sensor heads up to 80 kg



Infrared installation



Operator console



Pilot guidance system