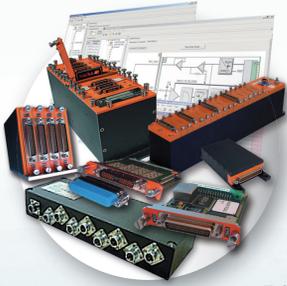# Instrumentation Devices

Sensors | Systems | Software | Solutions | Services

Flight Testing
Aerospace & Defence

On Board Data Acquisition & Telemetry Systems

PCM IRIG 106-ch. 4 or **Ethernet** based. Signal conditioning, avionics bus monitoring, video/audio, data logging: single unit, master/slave or network distributed systems.

Airborne and Ground Station Data Recorders

High performance **IRIG 106 ch.10** solid-state modular solutions for wideband analog signals, PCM streams, audio, video, industrial and avionics buses.

Ruggedized GPS/GNSS Receivers

On-board rover and ground base receivers with multiple I/O, high rate and accuracy. Antennae, UHF/VHF modems, software and other accessories.

RF Transmitters and Receivers

P, **L**, **S** and **C** band solutions for on board and ground-stations; airborne and ground antennae. IF demodulators and RF receivers with integrated diversity combiner.

Ground Station and Telemetry Subsystems

Hardware and software integrated telemetry ground stations. Bit and frame synchronizers, telemetry over IP, correlating source selectors, data processors, display and analysis software...

Avionics Solutions

Cockpit / mission data recorders, Flight Data Acquisition Units *(FDAU)*, video solutions...

Inertial Sensors and Systems

Rate-gyros, inertial measurement units, vertical-gyros, attitude & heading reference systems, inertial navigation systems...

Data-Link

For Intelligence, Surveillance and Reconnaissance *(ISR)* and command & control.

Video Equipment
Acquisition and image processing

Miniature, rugged and high-speed video cameras. Format/scan-converters, stroke to raster units, video compressors, data/time inserters.

Acoustic Noise Measurement and Certification

Microphones, acoustic probes, signal front-ends and recorders with measurement range higher than 100 dB, analysis software...

Test Rig Instrumentation

For simulation, monitoring, data acquisition, recording and analysis of avionics buses.

Sensors and Transducers for Physical Quantities

Custom Solutions

Designing, manufacturing and integration of hardware/software advanced solutions for special applications.

Instrumentation Devices

www.instrumentation.it