



## AIRBORNE TELEMETRY PRODUCTS

### FLIGHT TEST SOLUTIONS



- Flight test
- Weapons test and development
- Target programs
- Flight Termination

### DATA ACQUISITION SYSTEMS



- Missile and smart bomb checkout and test
- Launch system checkout and test
- Laboratory test

### VIDEO COMPRESSION



- Surveillance
- Cockpit and cabin monitoring
- Event monitoring

### DATA LINKS



- UAV programs
- Airborne bit synchronizers
- Airborne receivers



*Excellence  
You Can  
Measure*



**L-3 Telemetry & RF Products (L-3 T&RF) has built a proud heritage by bringing a successful suite of products and capabilities to the airborne telemetry market.**

We have provided thousands of airborne telemetry products over the past 50 years in support of major munitions and launch vehicle programs. We continue to be the supplier of choice for the majority of programs.

We offer a host of products geared specifically for the unmanned vehicle market, providing a series of RF components, video capabilities and data links that address the requirements of this rapidly growing market.

We have the unique capability of providing turnkey solutions for telemetry subsystems; incorporating the features of telemetry, video and/or flight termination capabilities.

Contact us with your requirements — we are the one-stop headquarters for all your airborne telemetry needs!



**DATA ACQUISITION**

L-3 has been a leader in data acquisition capabilities for over five decades. Others may attempt to copy our products, but we continue to be the pre-eminent supplier of PCM encoders in the aircraft, munitions and launch vehicle markets by continually designing to the needs of an ever changing market. Our data acquisition systems feature full network capability for iNET and other standards. They are capable of monitoring the latest generation aircraft buses such as ARINC-664, AFDX and others.



We offer several standard encoder products that meet the needs of the majority of programs requiring telemetry. Spanning a spectrum from miniature to card cage types they can be equipped with a large variety of data acquisition modules, including interfaces to accelerometers, strain gauges, vibration sensors, RTDs, thermocouples, flow meters, pressure sensors, serial data buses, flight computers and seekers.



These fully programmable solutions make it easy for the user to modify their data acquisition profile.

**DATA LINKS**

We provide individual and matched components for data links. Typical data link application is downlink telemetry and/or video data, and low speed uplink command and control. Individual components to support data link applications include transmitters, receivers, encoders and video compression products.



**RECEIVERS**

We also offer a complete line of telemetry, video and command receivers over a variety of RF bands. We have been a leader for many years in providing receivers in both the munitions and unmanned vehicle markets.

Our flight termination products have a flawless history of performance on a wide variety of munitions, launch vehicle and target programs. Our family of flight termination products has evolved over the past 30 years, with increasing capabilities and corresponding size reduction.

We also offer a flight termination controller, which is used to provide enhanced decoding and flight termination capabilities.



## TRANSMITTERS

L-3 Telemetry & RF Products has produced high-quality transmitters for many years. Our product offerings range from the UHF band, through L, S & C bands for telemetry in weapons programs to a line of frequency agile multi-band transmitters and power amplifiers. Our new generation of products provide highly efficient solutions in compact packages, provide ARTM Tier 0/1/2 waveforms and are totally computer programmable.

## VIDEO COMPRESSION

L-3 Telemetry & RF Products has produced video compression hardware for the past 15 years, and has been an industry leader of innovation in this field.

We offer wavelet and advanced Motion JPEG2000 compression algorithms. The wavelet compression algorithm can, in most applications, provide equivalent picture quality to JPEG and MPEG at higher compression ratios. The Motion JPEG2000 algorithm delivers high compression ratios while minimizing the effects of intermittent data transmission dropouts.

Our products provide superior image quality at high compression ratios. Image quality and compression ratio are fully adjustable, allowing users to make maximum use of available bandwidth.

## DESIGN & SUPPORT

### Embedded Encryption

We offer embedded encryption capabilities within many of our products. Our products incorporate the latest generation encryption algorithms approved for telemetry use.

### Custom Designs

We provide custom design capabilities for many of our products. Existing designs can be customized for specific applications, either by leveraging off existing products, or providing custom enhancements to standard products. Existing designs can be repackaged, where feasible, to fit into tight locations.

Custom PCM encoders, transmitters, receivers and video compression designs have been provided to suit the requirements of a multitude of programs over the past 50 years.

### Subsystem Designs

We routinely provide integrated subsystem designs on munitions programs. Subsystems may consist of a couple of components, such as an encoder and transmitter, mounted on a plate for easy installation into the weapon, or may consist of an entire telemetry and flight termination system, custom packaged or designed for that program.

Our years of experience in this area makes L-3 Telemetry & RF Products the supplier of choice for your telemetry subsystem requirements.

### Product Support

We support all of our products after sale, providing the best and most comprehensive product support in the industry.



# Telemetry & RF Products



## EXCELLENCE YOU CAN MEASURE

L-3 Telemetry & RF Products has over 50 years of heritage, bringing performance and value to virtually every major defense and aerospace organization in the World. We're joined in that legacy by over 100 L-3 divisions, each a leader in its area of expertise — from microwave components, antennas and telemetry instrumentation to satellite communications and secure communications systems. Our breadth of capability continues to grow with full spectrum solutions including integrated ground-based and airborne telemetry components and systems as well as complete systems engineering and integration services. Turnkey solutions from a single source — delivered on time and with complete after market support. That's what L-3 is all about. With over 14 billion dollars in annual revenue and one of the highest ratios of engineering staff to total employees, we have what it takes to give you the competitive edge.

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## Telemetry & RF Products

**L-3.** Headquartered in New York City, L-3 Communications employs over 64,000 people worldwide and is a prime contractor in aircraft modernization and maintenance, C<sup>3</sup>ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, subsystems and systems.

Printed in USA | ML515 Rev. B 4/09  
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Cleared by DoD/OSR for Public Release Under 10-S-0060 on 10/19/2009.