

## AN/UPD-2 Data Link Specifications

### General

Video Bandwidth ..... 15 KHz  
 Frequency Band ..... 225 - 400 MHz  
 Number of Channels ..... 3500  
 Modulation ..... FM  
 Range of Operation ..... 100 Miles

### AN/AKT-18A Transmitter

Video Encoder ..... KY-565A/AKT-18  
 Transmitter ..... T-991/AR  
 RF Power ..... 20 Watts  
 Antenna ..... AT-450/AR  
 Antenna Pattern ..... Omni  
 Weight ..... 170 lbs  
 Power ..... 28 VDC @ 12A  
                                     115 VAC/400 Hz @ 2A

### AN/TKQ-2A Receiver

Antenna ..... AS-1097/GR or  
                                     AT-197/GR  
 Antenna Pattern ..... Omni  
 Receiver ..... R-1335A  
 Receiver Noise Figure ..... 9 DB  
 Decoder ..... KY-565A/TKQ-2  
 Indicator ..... IP-1236/TKQ-2A  
 Recorder ..... RO-166E/UP  
 Video Display ..... AN/USM-281E  
 Shelter ..... S-339B/TKQ-2A  
 Power ..... 115 VAC, 3  $\phi$ , 400 Hz @ 20A/ $\phi$

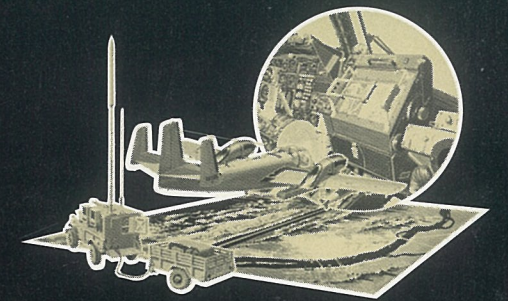
MOTOROLA, Government Electronics Division  
 8201 East McDowell Road, P.O. Box 1417  
 Scottsdale, Arizona 85252

FOR MORE INFORMATION  
 CONTACT RADAR OPERATIONS  
 Telephone (602) 949-4511

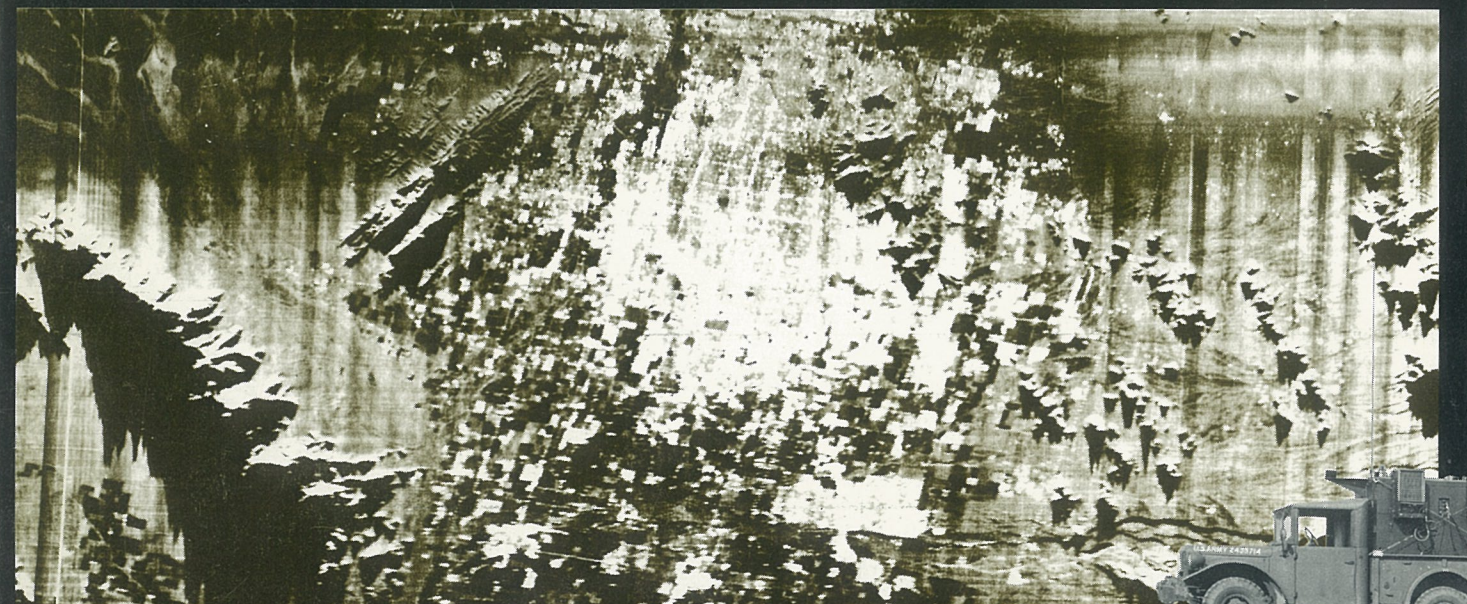
# U. S. Army...

## AN/UPD-2(V) Data Link with AN/APS-94D SLAR

### The Cost Effective Solution For All Weather Real Time Surveillance



AIRBORNE



GROUND

3/1968



**MOTOROLA**  
 Government Electronics Division

# MOTOROLA'S AN/UPD-2 System Now Including the Data Link and AN/APS-94D SLAR

## Real Time Readout

Interpretation in command areas provides data in real time, allowing decisions before the aircraft lands.

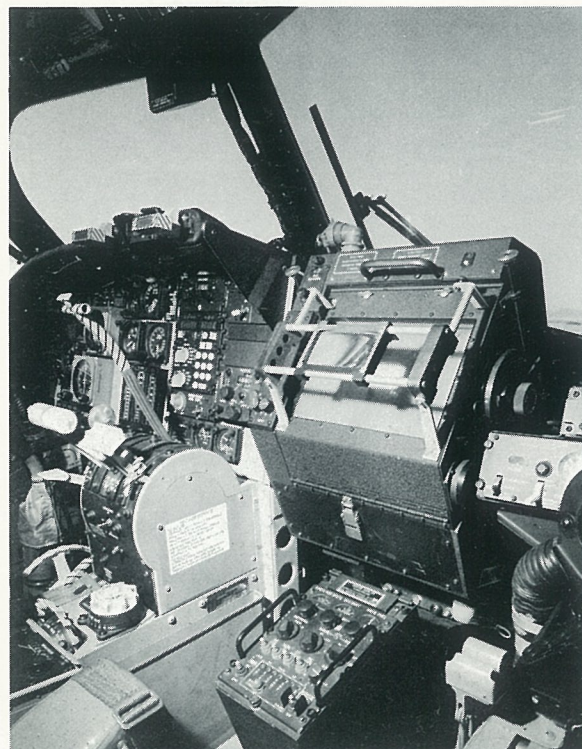
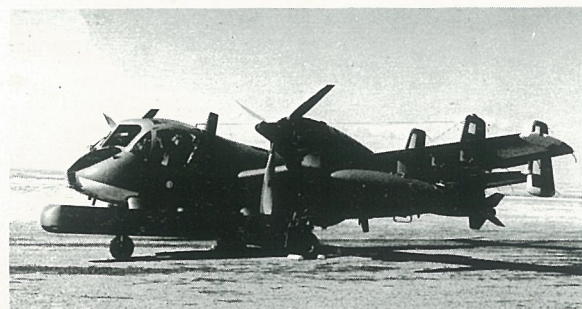
## Field Proven

The system has provided data since 1966, in both military and civilian tasks.

## Fully Supported

Military handbooks are available through depot level. Training and logistics are provided.

OV-1D SENSOR AIRCRAFT



REAL TIME COCKPIT READOUT

## Simple Operation

Two people to set the system up, and one for operation. Tracking antenna requirements are eliminated by use of Omni Antennas.

## High Fidelity Received Imagery

Degradation is negligible when comparing ground and airborne imagery.

## Excellent Reliability

In a recent operation with 20 missions there was no loss of data due to failure of equipment. Higher MTBF is predicted with options.

## Many Users

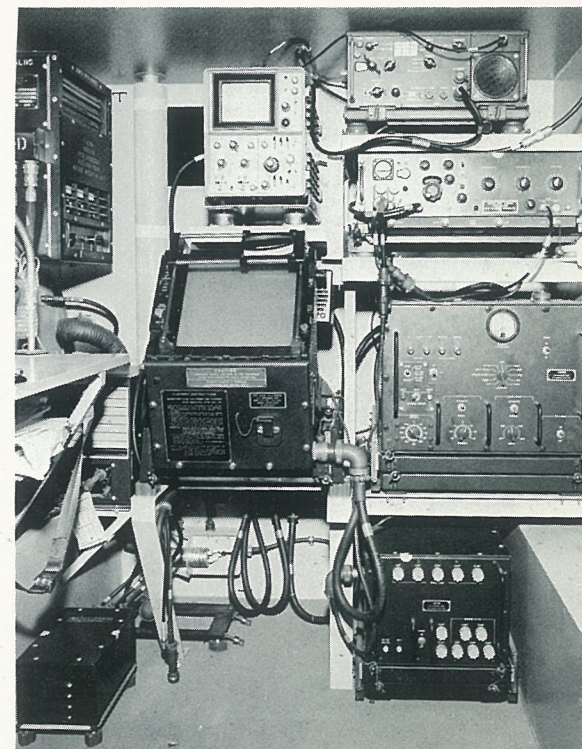
Omni airborne antennas allow all ground stations to receive data simultaneously.

## All Weather

System will operate in any weather in which the aircraft can fly.

## Quick Response

Delivery is 8 months ARO.



REAL TIME GROUND READOUT

# Available Options

## Digital Airborne Encoder

- Provides significant performance increases.
- 25/50/100 KM swath.
- Random PRF operation.
- Airborne Data Annotation System (ADAS).
- Built in test.
- Improved resolution.
- Reduces airborne system weight by 100 pounds.

## Solid State Transmitter

- Improves reliability and maintainability by using a solid state power amplifier.

*Omni Antenna provides low visual profile when camouflaged. The extendable antenna mast allows operation in towns or wooded terrain.*

## Ground Station Dry Recorder

- Dry Silver film eliminates wet film processing.
- Provides reduced maintenance requirements.
- Increases reliability.

## Remote Antenna (AN/AT-197)

- Allows antenna to be placed up to 100 feet from the ground station without performance loss.

## Ground-To-Ground Relay

- An unmanned ground system that relays data from the aircraft to any ground station that is not in line-of-sight with the aircraft.

## Power Conversion

- Converters for changing commercial line frequency to the 400 Hz required by the ground station.



CAMOUFLAGED AN/TKQ-2A