

# SOLO LDR Receiver

COFDM – Video, Audio Telemetry and IP Products

**COBHAM**

September 2011 Data Sheet

The most important thing we build is trust

The LDR (Low Data Rate) system is a digital video transmission system from Cobham Tactical Communications and Surveillance. Designed to operate over very long ranges, it features Cobham technology at its core.

The LDR receiver picks up the informational quality video sent by the LDR transmitter at reduced frame rates. The high level of compression and reduced data rate means that the images can be sent over great distances.

Narrowband digital transmissions - occupying as little as 50KHz of bandwidth and therefore more easily used at UHF frequencies - are sent over the system. The LDR receiver is available in a variety of frequency bands from 300MHz to 1GHz - other frequencies are available on request. Security is ensured with optional AES128/256 bit encryption.

Housed in a robust, water-sealed enclosure and consuming only 3W, the LDR receiver is ideal for long term outdoor deployments.

The LDR system will transmit images in a non line of sight environment up to 2km, and line of sight to 20km depending on mode and frequency, further range can be achieved with the optional clip-on booster PA.



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## Specification:

### Output

Composite Video Amphenol

### Input

RF Input 1 and 2 TNC  
RS232 Control Amphenol  
Power Amphenol

### RF

Frequency Bands 902 to 905MHz,  
868 to 870MHz,  
457 to 458MHz (others on request)  
Receive Sensitivity -112 to -118 dBm  
Tuning Steps 12KHz

### Modulation

Bandwidths 50, 75, 100 or 125KHz selectable  
Type COFDM, QPSK and 16QAM

### Video

Line Standard PAL/NTSC  
Resolution SIF (352 \* 288) QSIF (176 \* 144)  
Coding Mode MPEG4  
Delay 1 to 1.5 second end-to-end  
Frame Rate 12, 5 or 2 frames/s  
Decryption Format AES128/256 selectable (optional)

### Control

Remote Control RS232 Control from PC GUI Application  
Local Control Front Panel 8 channel select, RF On/Off,  
Range mode, Lock, Alarm

### Physical

Dimension L 150mm, W 120mm, H 35mm  
Sealing IP67

### Power

D.C Input 10 to 16V Reverse Polarity Protected  
Power Consumption 3.5W

### Environment

Temperature Range -20 to +60 deg C

### Product Code:

LDRRX-090090 Robust Low Data Rate Wireless Video RX  
LDRRX-086087 Robust Low Data Rate Wireless Video RX  
LDRRX-045045 Robust Low Data Rate Wireless Video RX  
LDRRX-023024 Robust Low Data Rate Wireless Video RX

### Product Code Includes

1 x CA0252 Shielded Power Cable 2M  
1 x CA0253 Shielded Control Cable 2M  
1 x CA0347 Shielded Video/Control cable 2M  
2 x AP00864 868MHz Antenna SMA  
2 x AP00377 TNC/SMA Adapter

### Accessory Options

None

### Licensing Options

AES256RX  
AES128RX



Products are available to security users only, in licensed frequency bands. These products are not approved for use by unlicensed users. Commercial products are available to unlicensed users - contact Cobham Tactical Communications and Surveillance direct for details. All product specifications are subject to change without notice. Cobham Tactical Communications and Surveillance will not be liable for technical or editorial errors or omissions.

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