

COFDM Drop Camera – SOL4DCAM

COFDM – Video, Audio Telemetry and IP Products

COBHAM

September 2011 Data Sheet

The most important thing we build is trust



Drop camera with Camera and microphone attached.

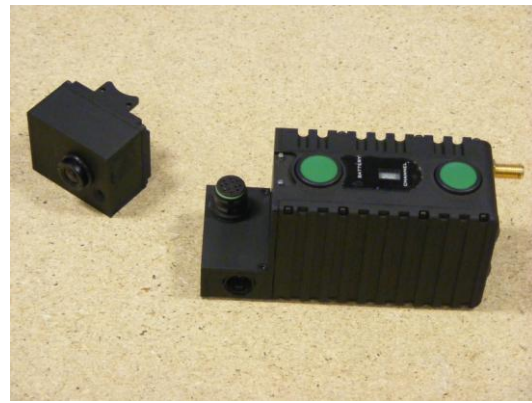
The SOL4DCAM Mk2 is the second generation drop camera from Cobham. The SOL4DCAM MK2 Transmitter incorporates a COFDM digital video transmitter, battery, camera and microphone into a rapid deployment robust chassis. The integral camera can also be abstracted on a cable or used as a generic video input giving the second generation DropCam a high degree of flexibility.

The DropCam is ideal for rapid deployment tactical scenarios where video coverage is required across ranges of typically 300-500m and line of sight is not available.

The DropCam Transmitter is housed in a rugged IP66 housing and is suitable for outdoor deployment. The integral battery pack provides up to 4 hours of power and can be recharged using the DC supply provided.

The DropCam Transmitter is provided with an interface cable that provides a generic input interface for video, two audios and a data channel (can be used for sensor data or GPS typically). The DropCam Transmitter is supplied with a high resolution low light camera with interchangeable lenses, which docks directly to the transmitter body, or can be abstracted using a 3m cable. The DropCam is also compatible with the full range of domo cameras, some of which can also dock directly to make a self contained video transmission system for rapid deployment scenarios. A range of accessory camera heads is available such as pin hole and IR heads.

Cameras can also be abstracted from the transmitter body, using the 3m camera extension cable provided. This is sometimes more convenient in hide situations.



Drop Camera with Camera and Microphone Removed.

Security of the link is ensured through the use of AES128/256 encryption.

The DropCam can be upgraded to a DropCam3G by the additional of an integral 3G modem for long range network monitoring and system control. This upgrade is not a field upgrade but requires the DropCam to be returned to Cobham Tactical Communications and Surveillance.

COFDM Drop Camera Transmitter

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Specification:

Input

Video and Audio Binder female 12 pin
Video, Audio, camera control, sensor, camera power

DC In and Control Binder male 8 pin

Output

RF Out SMA Female

Antennae

RF Out Antenna 2dBi Omni

RF COFDM

Frequency Model Dependant. 300 to 450MHz, 1.2 to 1.5GHz, 1.65 to 1.85GHz ,2 to 2.5GHz

Power 100mW

Tuning Step Size 250kHz

Modulation

Bandwidth COFDM 8,7,6MHz DVBT or 2.5MHz

FEC Standard DVBT, 2.5MHz = 1/3 or 2/3

Video COFDM

Input PAL or NTSC

Compression MPEG2 or MPEG4 (optional)

Resolution 720 to 352 pixel user configurable

Bitrate 4.8Mb/s to 600kb/s (full frame rate)

Audio

Input Microphone Level (line level with AV cable only)

Compression Nicam or MPEG layer 1

Sample Rate 48 or 32kb/s (user selectable)

Bitrate 64 to 728kb/s (user selectable)

Camera

Sensor 1/4" CMOS Fixed Focal 3.4mm (56deg H-FOV) F2

Format -P = PAL, -N = NTSC

Additional Lenses 9mm and 16mm

Resolution >460 TVL

Sensitivity 0.05Lux

SNR >46dB

Microphone

Type Omni 50 – 13KHz

Sensitivity 60dB +/-3dB

Encryption

Type ABS 32 bit as standard
AES128 and AES256 (optional)

Control

Remote RS232 control from PC application

Local Config switch, ON/OFF,

Physical

Size L 112mm, W 42mm H 54mm

Weight 500g

Mounting Magnetic strip, tripod and screw fixing

Power

Voltage 9-16V

Consumed 6W

Environment

Temperature -20 to +60 deg C

Sealing IP66

Product Codes:

SOL4DCAM-P-030045	DropCam PAL 300-450MHz (excl 2dBi ants)
SOL4DCAM-N-030045	DropCam NTSC 300-450MHz (excl 2dBi ants)
SOL4DCAM-P-120150	DropCam PAL 1.20-1.50GHz
SOL4DCAM-N-120150	DropCam NTSC 1.20-1.50GHz
SOL4DCAM-P-165185	DropCam PAL 1.65-1.85GHz
SOL4DCAM-N-165185	DropCam NTSC 1.65-1.85GHz
SOL4DCAM-P-200250	DropCam PAL 2.00-2.50GHz
SOL4DCAM-N-200250	DropCam NTSC 2.00-2.50GHz

Product Code Includes

Peli Case containing: Instructions & CD Replacement 9 and 16mm Lens Antenna Control break out cable 3m Camera Interface Cable Magnetic Bracket	Drop Camera Body Mounting Camera 3.6mm Lens AC mains adaptor Video and audio in cable 3m DC Input Cable 3" Mounting Spike
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Accessory Options

SOL4DCAM-3G-UP CAMIR CAMP15-X CAMP30-X CAMP45-X CAMP70-X CAMuP-X X = P for PAL, X = N for NTSC	Upgrade for SOL4DCAM to add 3G Infra Red Camera Head PAL or NTSC Pinhole Camera 15mm Lens Pinhole Camera 30mm Lens Pinhole Camera 45mm Lens Pinhole Camera 70mm Lens Micro Camera Head Option
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Licensing Options

TX-UP TX-UPX AES128TX AES256TX	Upgrade from 2.5MHz to 1.25MHz Upgrade from 1.25MHz to 625kHz AES Transmitter 128 Bit encryption AES Transmitter 256 Bit encryption
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