

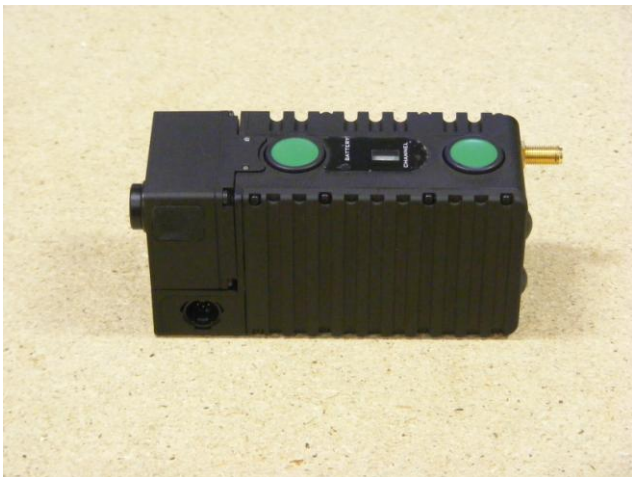
# COFDM 3G Drop Camera

COFDM – Video, Audio Telemetry and IP Products

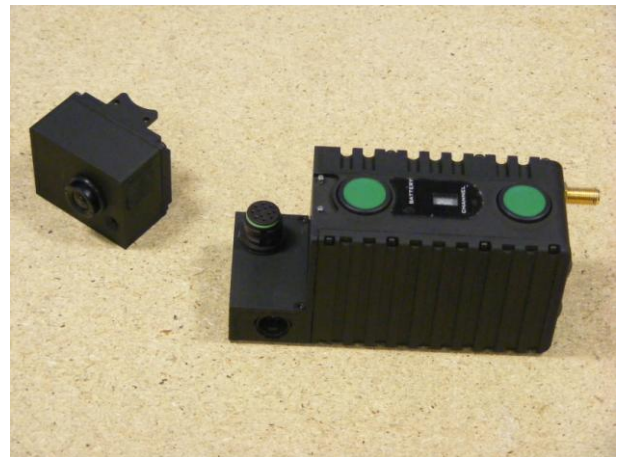
**COBHAM**

September 2011 Data Sheet

The most important thing we build is trust



*3G Drop Camera with Camera and microphone attached.*



*3G Drop Camera with Camera and Microphone Removed.*

The SOL4DCAM3G Transmitter incorporates a COFDM digital video transmitter, a 3G modem, battery and camera into a rapid deployment robust chassis. Supplied with an integral camera, that can also be abstracted on a cable or used as a generic video input giving the SOL4DCAM3G a high degree of flexibility.

The unique dual modem capability enables users to receive video in all situations. The COFDM link enables high quality video over short/medium ranges, while the 3G link provides observational quality video and camera control to users over ranges limited only by network coverage. In situations where 3G is not available the modem will default automatically to GPRS.

The DropCam3G 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 DropCam3G 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 DropCam3G 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. 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.

The SOL4DCAM3G is also compatible with the full range of domo cameras, and PTZ cameras can be controlled remotely using the 3G modem.

Video transmitted on the 3G link can be received and played on the Cobham Mission Commander software. The Mission Commander Software also offers basic PTZ control and control of the COFDM link. A bronze level version of Mission Commander is available free of charge to users of the SOL4DCAM3G.

Security of the link is ensured through the use of AES128/256 encryption on the COFDM link and Blowfish encryption on the 3G link.

# COFDM 3G Drop Camera

COFDM – Video, Audio Telemetry and IP Products



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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
GPS	SMA Female

### Output

RF Out	SMA Female
3G Out	SMA Female

### Antennae

RF Out Antenna	2dBi Omni
3G Antenna	Quick deploy antenna on 3m cable
GPS	Quick deploy antenna on 3m cable

### 3G RF

SIM	Single SIM
Modulation	HSDPA (3G) High Speed Downlink Pack Access) to 384kb/s uplink WCDMA (3G) Wideband Coded Division Multiple Access to 384kb/s uplink EDGE(3G) Enhanced Data Rates for GSM Evolution to 384kb/s uplink GPRS(2.5G) General Packet Radio Service) to 42.8b/s uplink

### COFDM RF

Frequency Model Dependant.	300 to 450MHz, 1.2 to 1.5GHz, 1.65-1.85GHz, 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)

### Video 3G

Compression	JPEG
Resolution	Any Default QSIF(176*144 pixel)
Frame Rate	Adaptive - network dependant (3-5fps typical)
Bitrate	Adaptive - Network dependant

### Audio

Input	Microphone Level (line level with AV cable only)
Compression	Nicam or MPEG layer 1
Bitrate	64 to 728kb/s (user selectable)

### Camera

Sensor	1/4" CMOS Fixed Focal 3.4mm (56deg H-FOV) F2
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Format	-P = PAL, -N = NTSC
Additional Lenses	9mm and 16mm
Resolution	>460 TVL
Sensitivity	0.05Lux
SNR	>46dB
<b>Encryption</b>	
Type	ABS 32 bit as standard AES128 and AES256 (optional) Blowfish for 3G
<b>Control</b>	
Remote	RS232 control from PC application, or local control with buttons.
<b>Physical</b>	
Size	L 112mm, W 42mm H 54mm
Weight	500g
Mounting	Magnetic strip, tripod and screw fixing
Temperature	-20 to +60 deg C
Sealing	IP66
Voltage	9-16V
Consumed	5.5W COFDM only, 8.5W COFDM+3G
Battery Life	2.45 hours on COFDM only, 1.5 hours combined.

### Product Codes:

SOL4DCAM3G-P-030045	DropCam 3G PAL 300-450MHz (excl 2dBi ant)
SOL4DCAM3G-N-030045	DropCam 3G NTSC 300-450MHz (excl 2dBi ant)
SOL4DCAM3G-P-120150	DropCam 3G PAL 1.20-1.50GHz
SOL4DCAM3G-N-120150	DropCam 3G NTSC 1.20-1.50GHz
SOL4DCAM3G-P-165185	DropCam 3G PAL 1.65-1.85GHz
SOL4DCAM3G-N-165185	DropCam 3G NTSC 1.65-1.85GHz
SOL4DCAM3G-P-200250	DropCam 3G PAL 2.00-2.50GHz
SOL4DCAM3G-N-200250	DropCam 3G 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

CAMIR	Infra Red Camera Head PAL or NTSC
CAMP15-X	Pinhole Camera 15mm Lens
CAMP30-X	Pinhole Camera 30mm Lens
CAMP45-X	Pinhole Camera 45mm Lens
CAMP70-X	Pinhole Camera 70mm Lens
CAMuP-X	Micro Pan Tilt Camera Head
X = P for PAL, X = N for NTSC	

### Licensing Options

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

For further information please contact:

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