



BRM2024

Airborne Relay Kit



MV4



DLF-4-RX



DLF-4-TX

> Applications

- Law Enforcement
- Aircraft Relay
- Public Safety
- Homeland Security
- Surveillance Vans
- Patrol Boats

> Benefits

- MPEG2 and H.264 Decoding
- Ruggedized for Aircraft or Vehicle Installation
- Weather Resistant for Harsh Environments
— Includes Anti-Vibe Mount
- Designed to DO-160G Requirements
- Two-Way FFT-MRC Diversity for reliable reception
- Streaming IP Video Out
- Composite, SDI, HDMI Video Outputs
- Enclosures Rated to IP65
- Switchable DC Power on RF Inputs
— Permits use of external LNAs
- BTP Decryption

RECOMMENDED OPTIONS (consult factory)

- DLC50 Aviation Control Panel
- AES 128/256 Decryption

> Performance

The BMS Relay Module (BRM) Kit contains all equipment to add a microwave relay function to your transmitter equipped vehicle. The kit includes the Mobile-Viewer™ Four (MV4) COFDM digital two-way diversity microwave receiver suitable for mobile operation. Also included are two four-channel switching banks, one for the receiver input (DLF-4-RX) and one for the transmitter output (DLF-4-TX). The units are designed for aircraft and ground video transmission systems where relay capability is needed.

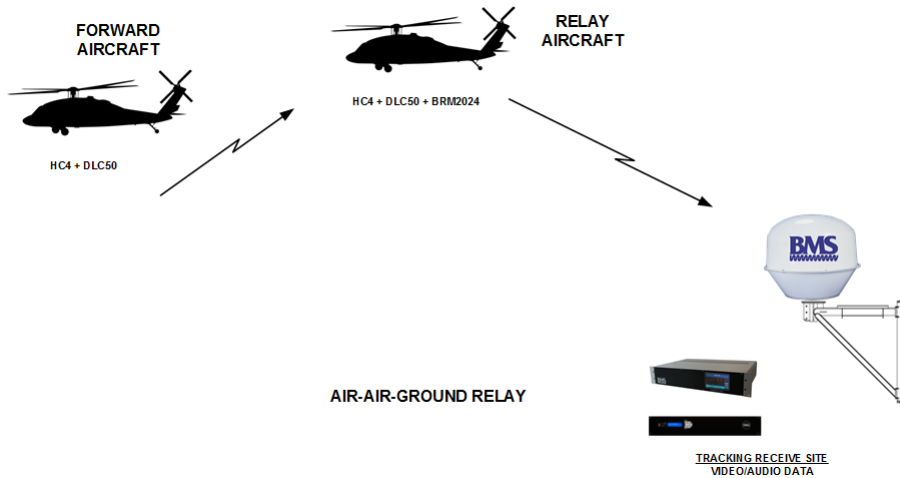
The system provides a video connection between the receiver and existing transmitter and also allows local viewing of the received video signal.

The kit is especially useful in supporting air-air-ground, ground-air-ground, and other airborne relays of ISR video. The kit is designed to comply with the same DO-160 environmental requirements as BMS' airborne transmitter and control panel. The system can be controlled from the same DLC50 control panel as the Heli-Coder 4 transmitter.

Video outputs include CVBS (NTSC/PAL), SDI/HD-SDI, HDMI, and streaming IP. Contact the factory to discuss antenna and diplexer options.



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> Inputs/Outputs

SIGNAL	CONNECTOR
RF INPUT	SMA(f) x2, 50 Ω, selectable DC bias voltage out on each connector
CVBS OUT	BNC (f)
SDI/HD-SDI	BNC (f)
VIDEO/AUDIO	HDMI
ANALOG AUDIO	M12, 4 Pin Male
Streaming Ethernet	4-pin M12 circular
Power Jack	3-Pin PTO type, PT07E-8-3P
USB	USB 2.0 (OTG) for system updates, channel plans, decryption key management
Control	M12, 8 Pin Male
User Data	M12, 4 Pin Female
TX Filter Bank	RF in and RF out N(f), control PTO2E-10-98PX
RX Filter Bank	RF out SMA(f) x2, RF in N(f) x2, control PTO2E-10-98PX

> Other Features/Options

Other Features	<ul style="list-style-type: none"> BTP* decryption (requires compatible transmitter) Automatically Adjusts to Transmit Parameters (Except Frequency) Weather Resistant to IP65
Supplied Accessories	<ul style="list-style-type: none"> Radio Mounting Bracket or Anti-Vibe Mount Wiring Harness, cables, connectors
Options	<ul style="list-style-type: none"> AES 128/256 Decryption DLC50 Control Panel

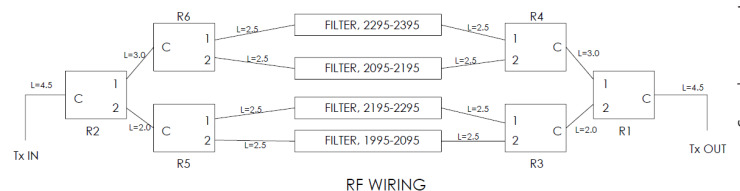
* BMS Transmission Privacy

> Ordering Information

MODEL	PART NUMBER	DESCRIPTION
BRM2024	8015066200	Airborne Relay Kit, four channel, 2.0-2.4 GHz

> Technical Characteristics

Channels (other channels and bands available)	1995-2095, 2095-2195, 2195-2295, 2295-2395 MHz
Receiver Tuning	1/4 or 1 MHz Steps, downloadable custom presets
Decoding	H.264 (MPEG4 Section 10/AVC) and MPEG2 (auto-selecting)
Video Outputs	1 (Composite, NTSC or PAL) 1 SDI/HD-SDI 1 HDMI (video/audio) 1 IP streaming
Audio Channels	2
COFDM Demodulation	DVB-T Compliant (2K Carriers) 2 Channel Diversity Reception, FFT/MRC
Channel Bandwidth	6/7/8 MHz (Auto-Detect)
Input Voltage	+10 to +32 VDC Vehicle Fused
Antenna Bias on SMA	Selectable: 3-10 VDC, OFF
Operating Range	-20° to +60°
Regulatory	Designed to comply with DO-160G Sections: 4, 5, 6, 7, 8, 15, 16, 17, 20.4, 20.5, 21, 25
Dimensions (receiver)	7.8"W x 11.0"D x 2.85"H (19.8 x 23 x 7.24 cm)
Weight (receiver)	6.5 lbs. (2.95 kg)
Dimensions (TX and RX channel banks)	10.24"W x 6.30"D x 3.60"H (26 x 16 x 9.144 cm) each
Weight (TX and RX channel banks)	5.07 lbs. (2.30 kg) each



Transmit Channel Bank RF Wiring
(RX Channel Bank Similar)