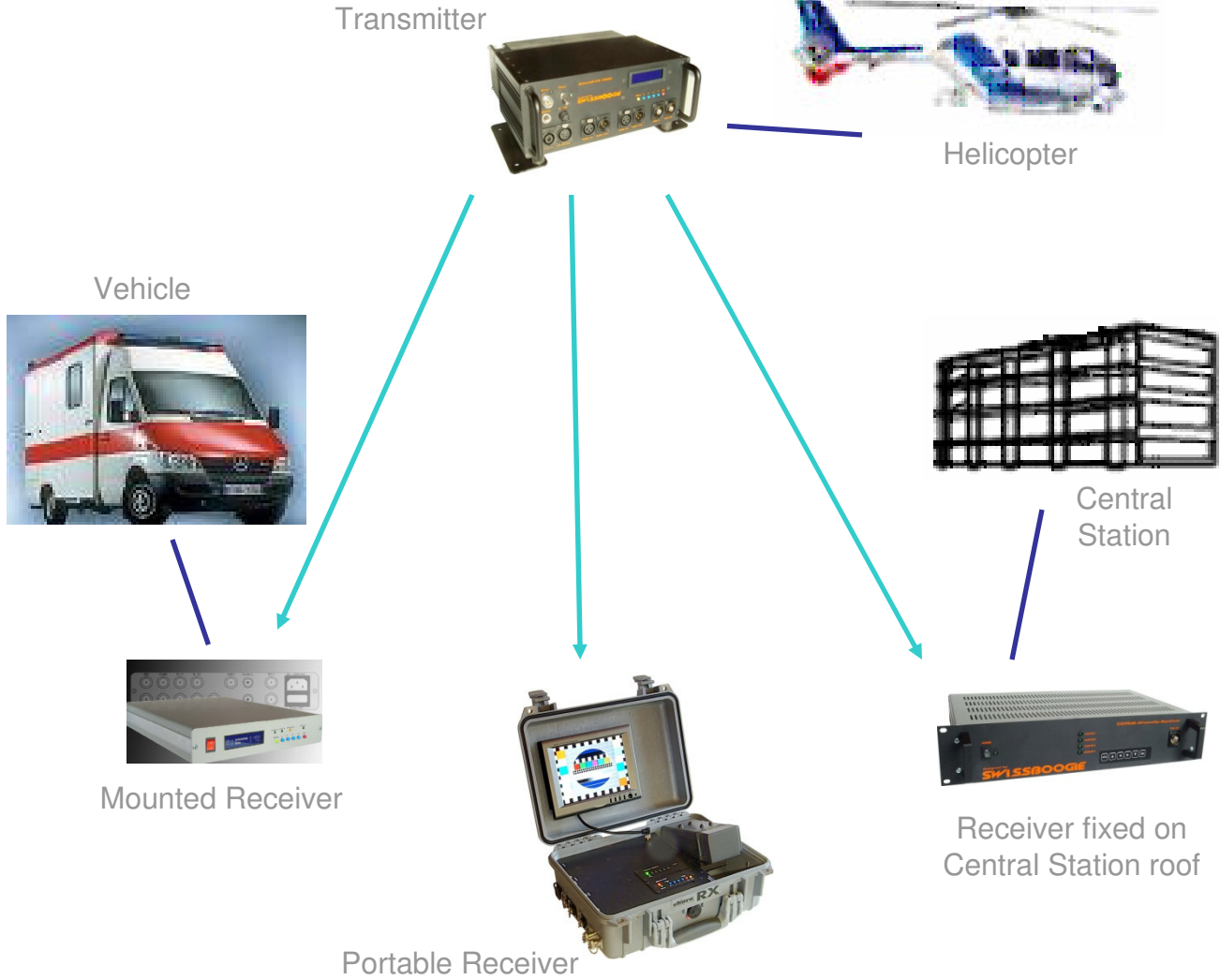


Helicopter Video Transmission System



Transmitter mounted to Helicopter, gets the views from camera and sends to selectable receiver.

- Receiver fixed on Central Station roof,
- Receiver mounted to mobile unit,
- Portable Receiver



Helicopter Video Transmission System

General Features

- Transmitter mounted on helicopter can receive stationary that 40 km away or mobil stations that 10 km away,
- Using COFDM Digital Communication System Dijital DVB-T for 2.4 Ghz ISM Band
- Equipped with an AES-128 decryption option it allows establishing secure transmissions without eavesdropping
- Ultra Low-Delay: Less than 50ms for any Format
- MPEG-2 Decoding. Supported NTSC or PAL

Technical Features

Video Specifications:

- 2x Serial Digital Output (SDI): SMPTE 259M, 270 Mbit/sec, 525@30i or 625@25i, 2x BNC 75 Ω
- 2x Composite Video (CVBS): Composite 1Vpp, NTSC or PAL B/G , 2x BNC 75 Ω
- Component Video: Selectable RGB or YCbCr, 1Vpp, 3x BNC 75Ω

Audio Specifications:

- Analogue Audio Output: Symmetric Stereo, Line Level, 2x Lemo Triax sockets
- Digital Audio Output : AES/EBU, stereo linear PCM, according to AES-3id, 1x BNC 75 Ω
- Embedded Digital Audio : Two channel linear PCM, according to SMPTE 272M

Decoding Specifications:

- Video Decoding: MPEG-2 Video according to ISO/IEC 13818-2,
- SP@ML intraslice in Low-Delay Mode, MP@ML in Compatibility Mode
- Audio Decoding: MPEG Audio Layer II Stereo according to ISO/IEC 11172,
- 2 channels, 16 bits, 48 kHz
- End-to-End Latency: <50 msec in Low-Delay Mode together with TX C.206 Transmitter
- Genlock-Interface: Genlock-In: 1Vpp, NTSC or PAL B/G, 1x BNC 75 Ω
- Genlock-Loop-Through: 1x BNC 75 Ω
- Decryption (Option): AES-128

Receiving Specifications:

- COFDM Demodulation: Automatic detection of QPSK/QAM16, FEC (1/2, 2/3, 3/4, 5/6, 7/8),
- Guard Intervals (1/32, 1/16, 1/8, 1/4)
- Frequency Range:(with 2.4 GHz Down-Converters) 2.30...2.70 GHz, adjustable in 500 kHz-steps (other range on custom request)
- Status Display: Field strength and reception quality for each diversity channel
- IF Input: 2x BNC 50 Ω, recommended cable attenuation: <20dB @ 800MHz

Transmitter Specifications

- COFDM Modulation: QPSK, QAM16 selectable FEC: 1/2, 2/3, 3/4, 5/6, 7/8 selectable Guard Intervals: 1/32, 1/16, 1/8, 1/4
- RF Output: 5 mW, 1x female connector type N 50 Ω
- Frequency Range: 2.30...2.70 GHz, adjustable in 500 kHz-steps

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