

# Mobile complex video broadcast (MCVB) for the Emergency Situations Ministry units

MCVB refers to a multi-channel video - telecommunication complexes, allowing secure transmission, reception and retransmission of video and audio information in a digital format from the board of the mobile means in operations EMERCOM subdivisions.



Video transmission equipment MCVBs can be installed on mobile objects (cars, helicopters, airplanes, boats and ships of the Coast Guard). Motion pictures and sound from the cockpit or from the place of events (natural disasters, fires, floods, training in conditions close to real situations), obtained in a mode «ON LINE» with the help of cameras and microphones allow to conduct remote monitoring and control, actions of the crew, ensure the safety and protection of lives and health of people, preservation of infrastructure and other facilities, improve the efficiency of their work.

## Purpose MCVB

MCVB is designed for rapid transmission of video and audio information, and direct relay of video signals in HD-quality event from the site to the point of reception (for viewing on monitors), or further transmission through the communication channels in the Ministry of Emergency Situations units.

The composition of the MCVB:

Mobile (fixed) transmitter with power supply units and antennas;

Mobile phone (landline) receivers with power supply units and antennas;

Mobile (fixed) means displays (monitors).

Accessories.

**The main performance characteristics of complex mobile video broadcasting**

**Radio frequency band - 762-818 MHz; 2300-2700 MHz**

**Carrier power (adjustable) - up to 10 W**

**Type of modulation- DVB-T2K, QPSK, 16-QAM, 64QAM**

**Range - up to 30 km**

**The standard form TV stream- ISO/IEC 13818-1 (DVB)**

**Method for coding a video – ITU-T H.264 (ISO/IEC MPEG-4 Part 10), MPEG2**

**Video Resolution: SD: not worse 720x576x50i; HD: 1920x1080x50i.**

**Video encoding performance - Up to 12 MB / sec**

**Method for coding audio - MPEG1, Layer 2**

**The input interfaces (6 entries) - 1 input: SD / HD SDI with two nested audio channels, or two HDMI embedded audio channels**

**Receiver Type - dual channel with diversity on two antennas, signal reception.**

**Input level - from minus 80 dBm to -10 dBm**

**The width of the channel- 6M/7M/8M**

**Modulation – - QPSK, 16QAM, 64QAM**

**The transport stream – MPEG-4 AVC/H.264 HP@L4, MPEG-2 MP@HL/ML**

**Image Format- 4:3 / 16:9**

**Video Standard - PAL / NTSC**

**Video Output - CVBS 1V, BNC 75 ohms, HD / SD-SDI or HDMI**

**Video Resolution - composite: 720\*576@25fps/720\*480@30fps;**

**HD: not worse 1920x1080i/ 1920x720p**

**Audio decoder – MPEG-2 / HE\_AAC (DD/DD + optional)**

**Audio Output: Balanced 600 Ohm; 0 dB**



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