

Remotely Operated Digital Recording-Transmitting System



Covert transmitter/recorder and Remote Control station

The system is rated for recording of audio intelligence and rapid transmission of recorded data via radio channel to the Remote Control receiver. The system is also applicable for real-time transmission of audio intelligence.

Features:

- Programmed recording - provides automatic operation of the system with no human assistance(duration, start/stop time are user-programmed);
- NO-noise operation - no noise is generated by the system while recording;
- Density histogram generated while recording indicates information density of the recorded contents;
- 24-hour service - provides access to the intelligence (recorded or live) at any moment you find comfortable;
- Boosted transmission of the recorded contents provides shortened communication sessions;
- Partial or complete transmission of the recorded contents;
- Playback and Save functions allow to playback the transmitted intelligence with the use of the control station and to save it (as *.wav files) to your PC through the USB interface.
- Communication Error Resolution - communication errors are resolved automatically by multiple data requests;

Complete set:

1. Covert transmitter/recorder.
2. Control station (combined control, receiver and monitor unit).
3. Data transfer & convert Software.

The acoustic transmitter is programmed from the RC. Recording can be scheduled. Date, time and length are user-defined.

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Histogram of the record is formed during recording. It can be downloaded for analysis separately from the audio data. Histogram is used to define the period of acoustic activity in the monitored area. The periods of acoustic activity defined in the histogram can be downloaded as fragments (there is no need to download all stored audio data).

high speed. Possible errors during the download process can be fixed by re-downloading the data.

Playback function is available on RC unit. RC unit is connected to computer via USB cable.

Computer software included in the package converts stored data to WAV format. RC unit is equipped with LED display, numeric keyboard, power on/off button, external antenna inputs (receiving and transmitting), headphones output, power supply input, USB socket.

Covert transmitter is controlled with RC unit via interface menu system. Covert transmitter itself has no control buttons and is operated only with RC station.

SPECIFICATIONS:

SYSTEM	
ADC sampling rate	10 kHz
ADC width	10 bit
Audio response	0.3 - 4.5 kHz
Maximal time of recording	14 hours
Data Transmission rate (Covert transmitter - Control station)	2.5 Mbit/sec.
Time of transmission of 1 hour of the recorded contents in no-error environment	4.5 min.
COVERT TRANSMITTER	
Main frequency	1200 MHz
Output power (standard)	80 mW
Modulation	FSK
Frequency deviation	+/- 3 MHz
Supply voltage	10 - 14 V
Current consumption:	
- stand-by and record mode	15 mA
- data transmission mode	120 mA
RC Receiver sensitivity	-95 dBm
CONTROL STATION	
Supply voltage	9-18 V
Current consumption while data reception mode	300 mA
Current consumption in other modes	100 mA
Output power of the RC transmitter	500 mW
Modulation	OOK
Carrier frequency	916.5 MHz

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