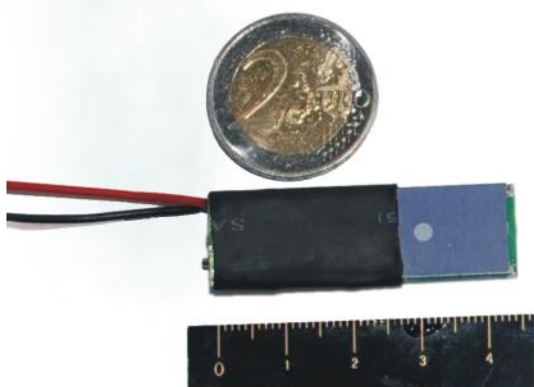


Digital audio transmitter DS-500

Long range digital audio transmitter and receiver with encrypted digital audio transfer and remote control.

DS-500 is a digital wireless audio set for online audio surveillance working in UHF band. Digital spread spectrum packet audio transmission makes the transmitter undetectable by RF detectors.

- Over 1km range
- Available in 2 variants - low power 12mW and high power 100mW version
- Transmitter can receive wireless commands from receiver box and can be turned on or off at any time.
- Alarm function with optional vibro integrated into the transmitter
- Selectable audio quality (16kHz or 8kHz mode)
- Very high quality Knowless EK23 microphone
- Ultra flat design, only 2,5mm thickness.
- Integrated SD card slot for audio recording in the receiver
- Digital radio link is not degrading audio quality with increased range between transmitter and receiver.
- Extra small size is suitable for confidential installation.
- Power supply 2,2V-6,0V.
- FHSS with improved avoidance of multipath fading.
- 8 channel receiver.
- Graphical LCD in a receiver box.



receiver with integrated
micro SD card recorder

100mW version



64x14x3mm

12mW version



47x15x3mm

Technical data:

UHF transmitter (common data for both TX variants):

| | |
|-------------------------------|--|
| Supply voltage: | 2.1-6.0V |
| Power Consumption - Stand-by: | < 1 mA |
| Audio Format: | 16bit, 16kHz or 8kHz |
| Type of compression: | LPC |
| Frequency range: | 860-880MHz |
| Modulation type: | FHSS |
| Radio channels: | 8 selectable independent channels |
| Over the air functions: | firmware upload, full configuration |
| Alarm function: | alarm open drain output controllable from receiver or optional vibro |
| Microphone type | Knowles EK23 series |

Transmitter DS500-TXW:

| | |
|---------------------------------|--------------------------------------|
| Range: | 1km |
| Dimensions: | 64x14x3mm |
| Power consumption at low power: | 60 mA at 3.7 V |
| Power consumption at max power: | 120 mA at 3.7 V |
| Output RF power: | selectable in 3 steps, maximum 100mW |

Transmitter DS500-TXS:

| | |
|---------------------------------|--|
| Range: | 150 meters (over 400 meters in open air environment) |
| Dimensions: | 47x15x3mm |
| Supply current (operating mode) | 33mA at 3,7V |
| The output RF power: | 12mW |
| Battery life: | 45 hours of continuous transmission with CR123 battery |
| Battery life in Stand-by: | 400 hours with CR123 battery |

Receiver:

| | |
|--------------------|--|
| Power supply: | 2x 1,5V AAA batteries or external power via mini USB |
| Power consumption: | 40 mA |
| RF sensitivity: | -115dBm |
| Antenna connector: | SMA |
| Audio connector: | 3,5mm size audio connector for headphones |
| Recording media: | micro SDHC card |
| Recording format: | 8kHz or 16kHz, 16bit |

This unique wireless audio system is a next generation of our digital wireless audio. Improved receiver sensitivity gives you a longer range and new data format allows you to use 16kHz mode with very clear audio transmission. This device allows you to monitor any area within the distance over 400 or 1000 meters with very high protection against RF detection devices. Optional integrated vibro inside the transmitter can be activated over the radio link from the receiver at any time when you press the button on the receiver's keypad. Integrated SD card recorder in the receiver makes this a complete system for audio surveillance without any need of the other equipment. Enhanced FHSS modulation makes the wireless path robust against signal reflections and provides good audio quality along the operating range. The user can send commands via wireless link from receiver box to the transmitter. This allows the user to turn on or off the transmitter at any time or change the transmitting channel. There is also available firmware upgrade of the transmitter over the air. When the transmitter is in stand-by mode, it is undetectable by any detecting device, because it's not transmitting anymore. The transmitter is available in two variants. One is high power version with 100mW output power and range of 1km and second low power with 12mW output power and range of 400 meters.

