

# TG 1000 Dual Receiver

Digital UHF True Diversity Receiver



## FEATURES

- Two-channel UHF true diversity receiver
- Suitable for 19" rack mounting, 1 U
- Looping through the antenna signals of up to 6 receivers
- Status display (battery, transmitter type, microphone capsule)
- Browser control and monitoring via integrated web server
- Encrypted data transmission

### Front view

- White OLED display
- Rotary encoder for selection and settings
- Power switch
- SYNC function to transmit the frequency to a transmitter automatically
- Headphone output with channel selection
- Hole for mounting the antennas on the front
- 2 LED chains to display RF signal strength
- LED chain to display audio signal level

### Rear view

- Removable BNC antennas
- Antenna inputs (BNC socket) with power supply for antenna amplifiers (8 V DC, 75 mA)
- 2 x coaxial antenna outputs
- AF output, 3-pin XLR, balanced / 3-pole jack, balanced
- Ethernet interface to connect PCs and laptops
- Mains connection

## VERSIONS

Region A	Two-channel true diversity receiver, 470 - 789 MHz. . . . .	Order # 711.357
Region B	Two-channel true diversity receiver, 470 - 698 MHz (without 608 - 614 MHz (US TV channel 37). . . . .	Order # 711.365
Region C	Two-channel true diversity receiver, 520 - 694 MHz. . . . .	Order # 711.373
Region D	Two-channel true diversity receiver, 650 - 758 MHz. . . . .	Order # 711.381
Region E	Two-channel true diversity receiver, 470 - 714 MHz. . . . .	Order # 711.764

## APPLICATIONS

The TG 1000 wireless system for professional use in touring applications and for permanent installation features a maximum of audio quality and reliability.

The automatic frequency selection, the encrypted data transmission, the browser control and monitoring via an integrated web server make the system competitive for the future and ensure maximum flexibility, whether in the conference center or on live stages. Due to the integrated Ethernet interface, the receiver can be integrated into any network (e.g. PC, Apple Macintosh, tablet PC, iPad etc.). The selection of handheld and backpack transmitters with different microphone capsules for the handheld transmitter or microphones for the backpack transmitter optimally meet individual requirements. The digital diversity receiver can be cascaded, so that up to 6 receivers can simultaneously be operated with only two antennas. For larger multi-channel systems, an optional antenna splitter is available. Several pre-programmed interference-free frequency groups are available for easy setup of multi-channel systems. These frequency groups are scanned for interference-free frequencies by pressing the rotary encoder. The transmission and setting of the carrier frequency at the transmitter is made via the infrared interface.

The headphone output is used for listening to individual receiving channels.

All system configurations, such as adjusting the volume of the headphone output or the output level on the receiver can be set with a rotary encoder (jog wheel). The OLED display, which can be well-read from all angles, shows all important parameters such as frequency, group/channel, user name, and the remaining battery capacity of the transmitter at a glance. Separate LED chains provide information on field strength and audio level.

## SUPPLIED ACCESSORIES

- Power cable
- Quick Start Guide
- 2 x WA-ATS standard omnidirectional antennas
- 1 x WA-CKF Connecting cable to mount the antennas on the front
- 1 x WA-CKL Connecting cable to cascade a maximum of von 12 x TG 1000 receivers

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## OPTIONAL ACCESSORIES

### Antenna splitter/Combiner

- WA-AS6 6-way wideband antenna splitter for wireless systems with BNC connection, antenna supply 8V DC, 470 - 790 MHz. . . . . Order # 711.519
- WA-ZAPD1 Passive 2-way combiner with BNC connections, 470 - 790 MHz. . . . . Order # 711.217

### Antennas

- WA-ATDA Passive/active wideband directional antenna for wireless systems with BNC connection, 470 - 790 MHz. . . . . Order # 711.004
- WA-ATO Wideband omnidirectional antenna for wireless systems with BNC connection, 470 - 790 MHz. . . . . Order # 711.586

### Cables

- WA-AC25 BNC antenna cable, length 25 metres, low-attenuation Aircell 7 cable . . . Order # 711.578
- WA-AC10 BNC antenna cable, length 10 metres, low-attenuation Aircell 7 cable . . . Order # 711.551
- WA-AC5 BNC antenna cable, length 5 metres, low-attenuation Aircell 7 cable . . . Order # 711.543
- WA-CGI Connecting cable to connect instruments with a mono 1/4" jack plug . . . . . Order # 711.608

### Amplifier

- WA-AMP2 Wideband antenna amplifier for wireless systems with BNC connection switchable amplification of 5 dB / 10 dB / 15 dB, 470 - 1,000 MHz . . . . . Order # 712.035

## TECHNICAL SPECIFICATIONS

- Operating principle . . . . . Digital UHF true diversity receiver
- Frequency range
- Region A . . . . . 470 – 789 MHz
- Region B . . . . . 470 – 698 MHz  
without 608 – 614 MHz  
(US TV channel 37)
- Region C . . . . . 520 – 694 MHz
- Region D . . . . . 650 – 758 MHz
- Region E . . . . . 470 – 714 MHz
- Frequency response . . . . . 20 – 20,000 Hz
- Dynamic range. . . . . 116 dB (128 dB with -12 dB level decrease in the belt-pack transmitter)
- Output level . . . . . max. + 18 dBu balanced (XLR and jack output)  
0 to 42 dB digital gain  
+ 12dB analogue boost
- Output impedance
- Jack output . . . . . 120 Ω
- Antenna input . . . . . 8 V DC, 150 mA
- Headphone output. . . . . switchable with volume control
- Latency . . . . . 2.1 ms (overall latency from transmitter to receiver)
- Encryption & Audio CODED . . . . . Switchable, proprietary encryption scheme based upon a 16 bit pattern; "Triple-Play" CODEC with low latency and high error resilience
- Display . . . . . OLED
- Mains connection. . . . . 100 V – 240 V AC
- Power consumption . . . . . 13.8 W (typ.)
- Weight. . . . . 3200 g
- Dimensions . . . . . 420x242x43 mm
- Antenna connection. . . . . 2 x BNC input/  
2 x BNC output