

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 12 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
- 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,
690 - 720 MHz. | Order # 711.373 |
| Region D | Two-channel true diversity receiver,
470 - 628 MHz &
710 - 716 MHz. | Order # 711.381 |

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 belt-pack transmitters with different microphone capsules for the handheld transmitter or microphones for the belt-pack transmitter optimally meet individual requirements. The digital diversity receiver can be cascaded, so that up to 12 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

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OPTIONAL ACCESSORIES

Antenna splitter

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

Antennas

WA-ATD Passive wideband directional antenna for wireless systems with BNC connection, 470 - 790 MHz. Order # 711.489

WA-ATD Active UHF transmitting and receiving omnidirectional antenna, active and passive connection (BNC), 470 - 790 MHz. Order # 703.966

WA-ATO Wideband omnidirectional antenna for wireless systems with BNC connection, 470 - 790 MHz. Order # 711.586

WA-ATO Active UHF transmitting and receiving directional antenna, active and passive connection (BNC), 470 - 790 MHz. Best-Nr. 703.974

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-CKF Connecting cable to mount the antennas on the front, for TG 1000 series Order # 711.527

WA-CKL Connecting cable to cascade a maximum of von 4 x TG 1000 receivers. Order # 711.535

WA-CGI Connecting cable to connect instruments with a mono 1/4" jack plug Order # 711.608

Amplifier

WA-AMP Wideband antenna amplifier for wireless systems with BNC connection switchable amplification of 5 dB / 10 dB / 15 dB / 20 dB, 470 - 790 MHz. Order # 711.497

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 690 – 720 MHz
Region D 470 – 628 MHz
710 – 716 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 30dB digital gain
+ 12dB analogue boost

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 12 W (typ.)

Weight 3200 g

Dimensions 420x242x43 mm

Antenna connection. 2 x BNC input/
2 x BNC output