

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
- With integrated DANTE interface

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

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 beltpack transmitters with different microphone capsules for the handheld transmitter or microphones for the beltpack 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.

The Dante interface is used for the transmission of several channels of uncompressed audio data with a low latency via a network cable.

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VERSIONS

Region A	Two-channel true diversity receiver, Dante, 470 - 789 MHz	Order # 708.984
Region B	Two-channel true diversity receiver, Dante, 470 - 608 MHz (without 608 - 614 MHz (US TV channel 37))	Order # 709.123
Region C	Two-channel true diversity receiver, Dante, 520 - 694 MHz	Order # 709.131
Region D	Two-channel true diversity receiver, Dante, 470 - 638 MHz & 650 - 758 MHz.	Order # 711.381
Region E	Two-channel true diversity receiver, Dante, 470 - 714 MHz	Order # 709.158

OPTIONAL ACCESSORIES

Antenna splitter/Combiner

WA-AS6/2	6-way wideband antenna splitter / 2-way antenna combiner for wireless systems with BNC connection, antenna supply 8V DC, 470 - 832 MHz.	Order # 711.160
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
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SUPPLIED ACCESSORIES

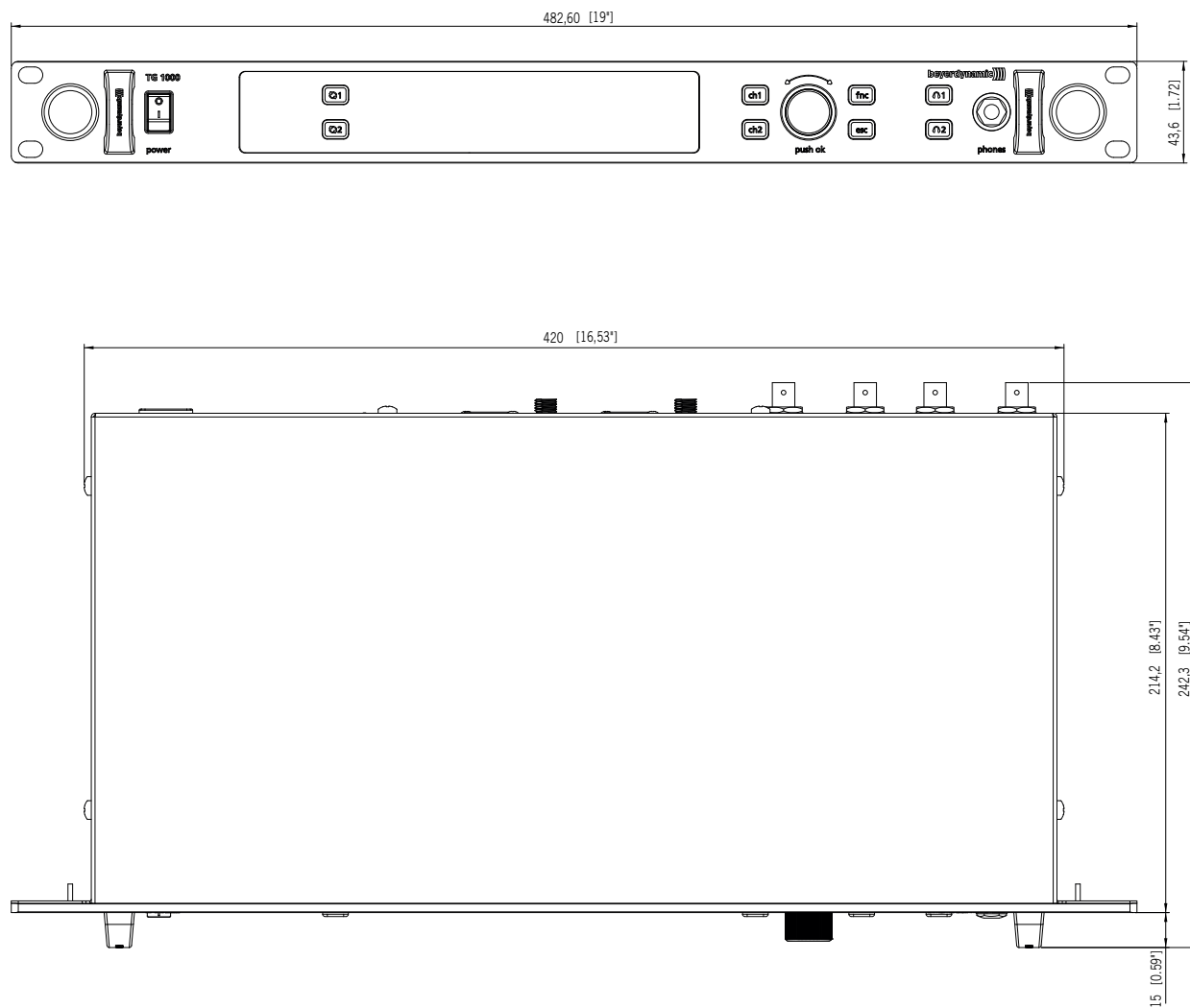
Power cable
Quick Start Guide
2 x WA-ATS standard omnidirectional antennas
1 x WA-CKF Connecting cable to mount the antennas on the front, two BNC adapters female/female, WA-CKL 60 required for use
1 x WA-CKL Set with two RG 58 connecting cables, 60 cm long, for cascading or antenna front mounting

TECHNICAL SPECIFICATIONS

Operating principle	Digital UHF true diversity receiver
Frequency range	
Region A	470 – 789 MHz
Region B	470 – 608 MHz without 608 – 614 MHz (US TV channel 37)
Region C	520 – 694 MHz
Region D	470 – 638 MHz & 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 gain
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	420x242x44 mm
Antenna connection.	2 x BNC input/ 2 x BNC output
Network connection.	Ethernet / Dante, RJ45: 48 kHz, 96 kHz, 24 bit

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DIMENSIONS



All dimensions in mm [inch]