

# TG 1000 DIGITAL WIRELESS SYSTEM

PROFESSIONAL  
AUDIO PRODUCTS

MADE IN GERMANY





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# TG 1000 DIGITAL WIRELESS SYSTEM

## Reliable, flexible, future-proof.

### What is TG 1000?

TG 1000 is beyerdynamic's first 24-bit digital wireless system, which covers an impressive 319 MHz of the UHF bandwidth (470 - 789 MHz). With these two features alone, TG 1000 is an extremely flexible system which can be used in a wide variety of venues worldwide. Combine this with a wealth of user-friendly features designed to enhance your performance and TG 1000 becomes your go-to wireless system regardless of the application.

### Showtime

Ruggedly built and featuring an extremely wide 319 MHz UHF bandwidth, TG 1000 is an ideal product investment for rental companies due to its ability to cater for a large variety of frequency requirements worldwide. Combine this with 24-bit digital converters and a collection of superb interchangeable microphone capsules and it's easy to see the flexibility on offer with the TG 1000 digital wireless system.

### Business

TG 1000 is the ideal wireless system for businesses around the world. It's wireless transmission signal features advanced digital encryption to keep your meetings totally secure. To ensure ease of use, TG 1000 features OneButton Navigation and the intuitive Chameleon Software which is already installed on the receiver. For further information and software-updates: [www.beyerdynamic.com/TG1000/help](http://www.beyerdynamic.com/TG1000/help)



319  
MHz

**319 MHz  
Switching Bandwidth**  
One wireless system for the entire world? TG 1000 covers 319 MHz of the UHF band. That's four times more than most of our competitors.



**Safe long-term Investment**  
Wireless systems are victims of unpredictable frequency changes. Compared to our competitors, TG 1000 is a safe long-term investment. Its bandwidth (470 - 789 MHz) sets a new benchmark for wireless systems.



**Made in Germany**  
TG 1000 is carefully handcrafted at beyerdynamic's headquarter in Heilbronn, Germany. We manufacture using only the finest mechanical and electronic components and rock solid materials. The receiver housing for example is made of powder-coated steel and aluminium. The transmitters are largely made of light-weight aluminium.

The new standard in user-friendliness.



**OneButton Navigation**  
Intuitive handling through OneButton Navigation – no more struggling through multiple menus.



**Excellent Sound Quality**  
Finest audio quality is ensured by a trend-setting low latency and high error resilience.



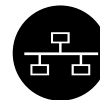
**Digital Encryption Technology**  
TG 1000 comes equipped with digital encryption technology as standard – perfect for confidential use.



**12-Channel Cascading**  
Cascade up to 12 channels without using an external splitter.



**CrystalClear Display**  
Using a OLED display, TG 1000 offers highest contrast and crystal clear readability from every angle.



**Monitor & Control**  
The easy-to-use Chameleon Software runs on any device (PC, Tablet, Smartphone) and operating system (Windows, Linux, iOS, Android etc.) without installation. All you need is an Ethernet interface and a web browser.



Always the perfect sound.



#### Smart Transmitters

Excellent design with the user in mind: compact shape and transmitter lock functionality – a pleasure to use.



#### 2.1 ms Total Latency

TG 1000 features a total latency of only 2.1 ms, which is state of the art for digital wireless systems.



#### 300 m Range

TG 1000 achieves an extraordinary line of sight range of up to 300 meters.



#### FastSync

The TG 1000's FastSync technology allows you to synchronise the receiver and transmitter in less than one second.



#### 128 dB Dynamic Range

An excellent dynamic range of 128 dB makes the TG 1000 the ideal system for both vocal and instrumental use.



#### GenuineGuitar

No colouration of your sound or gain loss through wireless systems anymore – thanks to TG 1000's GenuineGuitar technology. Even frequencies as low as 20 Hz are transmitted without loss.



#### Charging

Easy charging: Standard NiMH batteries can be used for the transmitters. An intelligent charging device with network connectivity is available as an accessory.

## Because every voice counts.

### Interchangeable Microphone Capsules

Six of our best microphones are available as interchangeable capsules for TG 1000 – including dynamic and condenser types, as well as our unique TG V90w ribbon microphone cartridge.



### TG MM1w

With the TG MM1w, the TG 1000 digital wireless system presents an all-in-one solution. The wireless system can be used not only to mike speaking and singing voices and musical instruments, but also to calibrate ELA and PA systems in the theatre, at live concerts or at festivals. The TG MM1w interchangeable microphone capsule with the TG 1000 handheld transmitter makes it possible to calibrate easily, without the need of long cable runs.

Ulf Oeckel, freelance FOH mixing & audio system engineer (on tour with Adele, Rammstein, Red Hot Chili Peppers, P!nk, Sade, Cher, Mark Knopfler):

“When calibrating using a tablet in the venue, the handheld transmitter with its interchangeable measurement capsule is very convenient, light and practical, but also sturdy. I use the system primarily for time alignment, monitoring the system response in different areas of the arena during the show. Generally, when I’m on tours I go through up to six measurement microphones, because in the HF range most of them suffer performance and therefore become inaccurate. After nine months, the TG MM1w is still delivering constant and reliable measurements.”





**TG V50w**

The TG V50w capsule provides discreet, powerful sound and a very good gain before feedback – a real all-rounder, which has set standards as wired variant.

<b>Transducer type</b>	Dynamic
<b>Polar pattern</b>	Cardioid
<b>Recommended application</b>	Vocals +++ Speech ++



**TG V56w**

Condenser capsule with a fine resolution for most different applications.

<b>Transducer type</b>	Condenser
<b>Polar pattern</b>	Cardioid
<b>Recommended application</b>	Vocals +++ Speech +++



**TG V70w**

A very good resolved, powerful sound combined with excellent gain before feedback make this capsule first choice when powerful sound is essential on a loud stage.

<b>Transducer type</b>	Dynamic
<b>Polar pattern</b>	Hypercardioid
<b>Recommended application</b>	Vocals +++ Speech +++



**TG V90w**

The world's only ribbon capsule, that can be used on loud stages. Silky clear and discreet sound combined with high gain before feedback and robustness – ideal for demanding touring applications.

<b>Transducer type</b>	Ribbon
<b>Polar pattern</b>	Cardioid
<b>Recommended application</b>	Vocals +++ Speech +



**TG V96w**

The strength of this capsule is reproducing subtle nuances naturally. The true condenser features a sound naturalness that has no equal.

<b>Transducer type</b>	True condenser
<b>Polar pattern</b>	Cardioid
<b>Recommended application</b>	Vocals +++ Speech +++



**TG MM1w**

This capsule serves to calibrate ELA and PA systems.

<b>Transducer type</b>	Condenser
<b>Polar pattern</b>	Omnidirectional
<b>Recommended application</b>	Measuring sound reinforcement and PA-systems

## Make your choice.

### Lavalier microphones

Clip-on microphones should be heard, not seen – and for good reason: a lavalier microphone should offer the perfect combination of maximum discreetness and best-possible sound. beyerdynamic's Touring Gear series clip-on microphones accomplish exactly that. You may not see it, but its excellent sound makes it all the more recognisable.



### Neckworn and earhook microphones

Many situations on stage require both optimal sound and maximum freedom of movement. These are situations where the advantages of the Touring Gear neckworn and earhook microphones really prove themselves.



### Instrument microphones

Great live concerts rely on perfect orchestration. A skilful interplay of voices and instruments can create a truly unforgettable experience. For such a moment, every instrument needs the optimal sound.







**TG L58c**

Mini condenser lavalier microphone, with 4-pin mini-XLR connector, available in both black and tan.

<b>Transducer type</b>	Condenser
<b>Polar pattern</b>	Omnidirectional



**TG H54c**

Condenser neckworn microphone, with 4-pin mini-XLR connector, available in both black and tan.

<b>Transducer type</b>	Condenser
<b>Polar pattern</b>	Cardioid



**TG H56c**

Condenser neckworn microphone, with 4-pin mini-XLR connector, available in both black and tan.

<b>Transducer type</b>	Condenser
<b>Polar pattern</b>	Omnidirectional



**TG H57c**

Condenser earhook microphone, with 4-pin mini-XLR connector, available in tan.

<b>Transducer type</b>	Condenser
<b>Polar pattern</b>	Omnidirectional



**TG H74c**

Condenser neckworn microphone, with 4-pin mini-XLR connector, available in both black and tan.

<b>Transducer type</b>	Condenser
<b>Polar pattern</b>	Supercardioid



**TG I56c**

Condenser microphone for accordions and styrian harmonicas, with 4-pin mini-XLR connector, available in black.

<b>Transducer type</b>	Condenser
<b>Polar pattern</b>	Cardioid



**TG I57c**

Condenser clip-on microphone for wind instruments, with 4-pin mini-XLR connector, available in black.

<b>Transducer type</b>	Condenser
<b>Polar pattern</b>	Cardioid



**TG I58c Helix**

Condenser microphone for instruments, with helix clamp, with 4-pin mini-XLR connector, available in black.

<b>Transducer type</b>	Condenser
<b>Polar pattern</b>	Omnidirectional

All you need.



**WA-CD**

The handheld / beltpack transmitter can be recharged within a very short time by using the charger, which is available as an accessory.



**Charger with 4 compartments**

Up to 2 handheld / beltpack transmitters or 2 handheld transmitters and 4 standard AA rechargeable batteries can be charged simultaneously.



**LED display**

Simple monitoring of the current charging status due to multicoloured lights.



**Network compatibility**

Simple control and integration into an existing media control system.



**WA-HHA-SHBY**

Aluminium adapter for Shure®, DPA®, Heil Sound®, Sony®, Line6® and many more microphone capsules.

**WA-ATO**

Passive omnidirectional wideband antenna, BNC, 470 - 790 MHz.



**WA-ATDA**

Passive / active logarithmic periodic directional antenna for the UHF range, BNC / TNC connector, 470 - 1000 MHz, selectable gain of passive (0 dB), low gain (6 dB), high gain (12 dB).



**WA-ZAPD1**

Passive two-way Combiner 470 - 1000 MHz used for multiantenna systems.



**WA-AS6**

6-way wideband antenna splitter, BNC connector, 470 - 790 MHz.



**WA-AMP 2**

Wideband antenna amplifier, 5 dB / 10 dB / 15 dB switchable gain.



**WA-AC5 / WA-AC10 / WA-AC25**

BNC antenna cable, low attenuation, Aircell 7 cable, available in 5 m, 10 m and 25 m.



**MS-50**

Antenna mounting set, 3/8" thread, incl. 5/8" adapter.



**WA-CKL**

Loop through cable kit for max. 12 TG 1000 channels, included in the delivery.



**WA-CKF**

Rear to front mounting kit, included in the delivery.



**WA-CGI**

Instrument cable with 1/4" jack (Neutrik) / 4-pin mini-XLR.



**WA-MC**

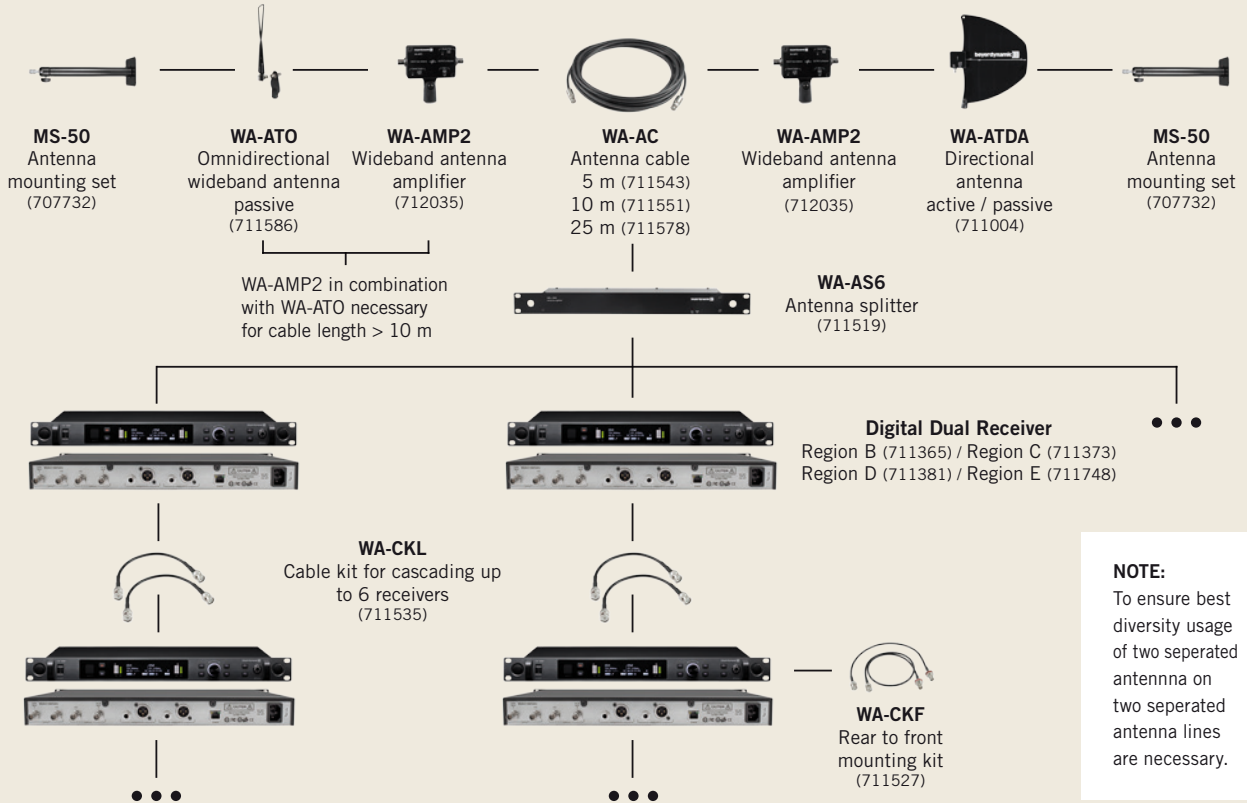
Microphone cable to connect wired microphones with 3-pin XLR.



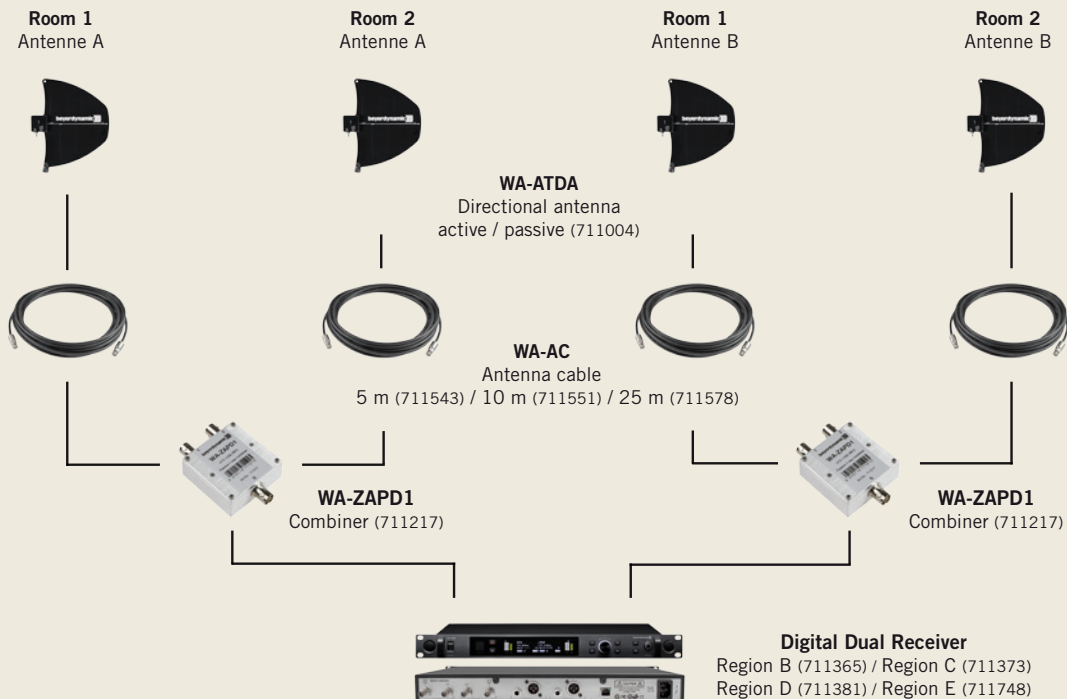
**WA-MS**

Marker set.

### Multi channel application



### Multi antenna application



**TG 1000 Digital Dual Receiver**

<b>Operating principle</b>	Digital UHF True Diversity Receiver
<b>Frequency range</b>	
<b>Region A</b>	470 - 789 MHz
<b>Region B</b>	470 - 698 MHz without 608 - 614 MHz (US TV channel 37)
<b>Region C</b>	520 - 694 MHz
<b>Region D</b>	650 - 758 MHz
<b>Region E</b>	470 - 714 MHz
<b>Frequency response</b>	20 - 20,000 Hz
<b>Dynamic range</b>	116 dB
<b>Output level</b>	max. + 18 dBu balanced (XLR and jack output) 0 to 42 dB gain
<b>Headphone output</b>	switchable with volume control
<b>Total latency</b>	2.1 ms (from transmitter to receiver)
<b>Encryption &amp; Audio codec</b>	switchable, proprietary encryption; "TriplePlay Codec" with low latency (1.2 ms) and high error resilience
<b>Display</b>	OLED
<b>Mains connection</b>	100 V - 240 V AC
<b>Power consumption</b>	13.8 W (typ.)
<b>Ambient temperature</b>	0 bis +55°C
<b>Weight</b>	3,200 g
<b>Dimensions</b>	420 x 242 x 43 mm
<b>Antenna connection</b>	2 x BNC input / 2 x BNC output

**TG 1000 Handheld Transmitter**

<b>Operating principle</b>	Digital UHF Handheld Transmitter
<b>Frequency range</b>	same as receiver
<b>Frequency response</b>	20 - 20,000 Hz
<b>Dynamic range</b>	116 dB
<b>Encryption &amp; Audio codec</b>	same as receiver
<b>Transmitter power</b>	10 mW / 50 mW
<b>Display</b>	OLED
<b>Transmission range</b>	up to 300 metres (depends on location)
<b>Operating time</b>	approx. 8 hrs.
<b>Weight</b>	115 g without batteries and microphone capsule
<b>Dimensions</b>	length 200 mm / Ø 36 mm

**TG 1000 Beltpack Transmitter**

<b>Operating principle</b>	Digital UHF Beltpack Transmitter
<b>Frequency range</b>	same as receiver
<b>Frequency response</b>	20 - 20,000 Hz
<b>Dynamic range</b>	116 dB (128 dB with -12 dB level decrease)
<b>Antenna connection</b>	SMA
<b>Encryption &amp; Audio codec</b>	same as receiver
<b>Transmitter power</b>	10 mW / 50 mW
<b>Display</b>	OLED
<b>Transmission range</b>	up to 300 metres (depends on location)
<b>Operating time</b>	approx. 8 hrs.
<b>Input level</b>	max. + 18 dBu
<b>Weight</b>	102 g without batteries
<b>Dimensions</b>	94 x 59 x 26 mm

[www.beyerdynamic.com/tg1000](http://www.beyerdynamic.com/tg1000)

