

TG 1000

Digital UHF Handheld Transmitter



FEATURES

- Anodised aluminium housing
- OLED display
- SYNC function for automatic frequency setting
- Integrated wideband antenna
- Powered by 2x AA alkaline or NiMH rechargeable batteries
- Charging contacts underneath

VERSIONS

Region A	Handheld transmitter for TG 1000 receiver, 470 - 789 MHz	Order # 711.039
Region B	Handheld transmitter for TG 1000 receiver, 470 - 608 MHz (without 608 - 614 MHz / US TV channel 37).	Order # 711.047
Region C	Handheld transmitter for TG 1000 receiver, 520 - 694 MHz	Order # 711.055
Region D	Handheld transmitter for TG 1000 receiver, 470 - 638 MHz & 650 - 758 MHz.	Order # 711.063
Region E	Handheld transmitter for TG 1000 receiver, 470 - 714 MHz	Order # 711.071

OPTIONAL ACCESSORIES

TG MM1w	Measurement microphone capsule, electret condenser, omnidirectional.	Order # 712.043
TG V50w	TG 1000 microphone capsule, dynamic, cardioid, incl. storage bag	Order # 711.438
TG V56w	TG 1000 microphone capsule, electret condenser, cardioid, incl. storage bag	Order # 711.446
TG V70w	TG 1000 microphone capsule, dynamic, hypercardioid, incl. storage bag	Order # 711.454
TG V90w	TG 1000 microphone capsule, ribbon, cardioid, incl. storage bag	Order # 711.462
TG V96w	TG 1000 microphone capsule, true condenser, cardioid, incl. storage bag	Order # 711.470
WA-HHA-SHBY	Adapter to attach microphone capsules from Shure®*	Order # 711.012
WA-CD	Charger for TG 1000 handheld transmitter and belt-pack transmitter with 4 charging compartments and control via Ethernet	Order # 711.144
WA-MS	Coloured ring set consisting of 6 rings (black, red, yellow, green, white, blue).	Order # 711.152

*Trademark Notice:
Shure is a registered trademark of Shure Incorporated, USA.

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APPLICATIONS

The transmitter for the TG 1000 wireless system is available in different frequency ranges. It can be combined with five first-class interchangeable microphone heads so that maximum flexibility is guaranteed for various applications.

The ergonomically designed handheld transmitter is provided with an infrared interface, with which the chosen carrier frequency from the receiver is automatically received and set in the transmitter. The transmitter also has a silent power button and an OLED display showing channel / group, frequency and battery status. The transmitter is powered by two NiMH rechargeable or 1.5 V AA alkaline batteries, enabling an operating time of approx. 8 hours. When using NiMH rechargeable batteries, the optional WA-CD charger is available. When charging with the WA-CD, the rechargeable batteries can remain inside the transmitter.

TECHNICAL SPECIFICATIONS

Operating principle	Digital UHF handheld transmitter
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
Encryption & Audio CODEC	Switchable, proprietary encryption scheme based upon a 16 bit pattern; “Triple-Play” CODEC with low latency and high error resilience
Dynamic range	116 dB (A-weighted)
Transmitter power	10 mW (“RF Power Standard”) / 50 mW (“RF Power High”)
Display	OLED
Transmission range	up to 300 metres under optimal conditions
Power supply	2 x 1.5 V AA alkaline batteries (Mignon) or 2 x NiMH AA rechargeable batteries
Operating time	approx. 8 hrs. (NiMH 2100 mAh, RF Power Standard)
Weight	152 g without batteries and microphone capsule
Dimensions	Length 200 mm / Ø 36 mm

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MICROPHONE HEADS



TG V50w

TG V50w

- Dynamic microphone head
- Cardioid polar pattern
- Very wide pick-up area
- High gain before feedback

The dynamic TGV 50 W is an excellent microphone head for live vocals both on stage and in rehearsal rooms. The TGV 50 W features a balanced, powerful and natural sound, a very wide pick-up area due to a cardioid polar pattern and a high gain before feedback.



TG V56w

TG V56w

- Condenser microphone head
- Cardioid polar pattern
- Discreet treble boost
- High gain before feedback

The TGV 56 W microphone head provides many opportunities for singing on stage and in rehearsal rooms. With the typical fine resolution of condenser microphones it is suitable for the most diverse requirements and provides room for different types of vocal and musical style. The discreet treble boost ensures a very transparent signal and the complex decoupling of the capsule minimises handling noise.



TG V70w

TG V70w

- Dynamic microphone head
- Hypercardioid polar pattern
- Powerful sound
- Extremely high gain before feedback

The dynamic hypercardioid TGV 70 W microphone head is suitable for live vocals and inspires singers on stage and the audiences. The reasons: the very good resolution, powerful sound, the excellent feedback rejection and a distinct proximity effect with rich deep foundation to support less powerful voices. Even without the aid of the mixer equalizer, the TGV 70 W provides an impressive round and exceptional powerful sound.



TG V90w

TG V90w

- Dynamic ribbon microphone head
- Cardioid polar pattern
- Clear, natural sound
- High gain before feedback

As microphone head with ribbon system that knows how to impress even with live vocals on loud stages, the TGV 90 W is an absolute highlight. It combines the incomparable silky-clear and never intrusive sound of a ribbon microphone with the gain before feedback and robustness that is required for demanding tour applications. The cardioid TGV 90 W provides a clear natural sound due to the ultralight only 2 microns thin pure aluminium ribbon that ensures an exceptional signal fidelity and remarkable transient response.

TG 1000

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MICROPHONE HEADS



TG V96w



TG MM1w

TG V96w

- Condenser microphone head
- Cardioid polar pattern
- Natural reproduction
- High gain before feedback

The true condenser microphone head features an impressive natural sound. It provides a subtle treble boost for an open, fine and unobtrusive sound. The 5-layer pop filter made of metal mesh wire with different mesh size and a sintered plate is easy to clean and ensures an optimal suppression of plosives as well as a significant improvement in rear attenuation.

TG MM1w

- Condenser microphone head (back electret)
- Omnidirectional polar pattern, diffuse field equalised
- Calibrated open circuit voltage
- Narrow tubular metal construction

In combination with the TG 1000 handheld transmitter the TG MM1w measurement microphone head is used for wireless measuring of sound reinforcement systems. In addition to level measurements it can be used for determining frequency responses by using appropriate analysers.

TECHNICAL SPECIFICATIONS

Type	TG V50w	TG V56w	TG V70w
Polar pattern	Cardioid	Cardioid	Hypercardioid
Transducer type	Dynamic	Condenser	Dynamic
Frequency response			
Close miking	50 - 17,000 Hz	40 - 20,000 Hz	25 - 18,000 Hz
Distant miking (1m)	80 - 17,000 Hz	65 - 20,000 Hz	90 - 18,000 Hz
Open circuit voltage at 1 kHz	2.4 mV / Pa	9 mV / Pa	3.2 mV / Pa
Max. SPL	–	140 dB	–
Signal-to-noise ratio	–	74 dB	–
A-weighted equivalent SPL	–	20 dB	–
Dimensions			
Head diameter	54 mm	48 mm	54 mm
Shaft	36 mm	36 mm	36 mm
Length	89 mm	88 mm	89 mm
Weight	146 g	88 g	145 g

Type	TG V90w	TG V96w	TG MM1w
Polar pattern	Cardioid	Cardioid	Omnidirectional, diffuse field equalised
Transducer type	Dynamic (ribbon)	Condenser	Condenser (back electret)
Frequency response			
Close miking	50 - 14,000 Hz	20 - 20,000 Hz	20 - 20,000 Hz
Distant miking (1m)	90 - 14,000 Hz	55 - 20,000 Hz	
Open circuit voltage at 1 kHz	2.5 mV / Pa	9 mV / Pa	15 mV / Pa
Max. SPL	–	144 dB	120 dB*
Signal-to-noise ratio	–	76.4 dB	56 dB*
A-weighted equivalent SPL	–	17.6 dB	27 dB*
Dimensions			
Head diameter	57 mm	48 mm	9 mm
Shaft diameter	36 mm	36 mm	36 mm
Length	84 mm	91 mm	94 mm
Weight	190 g	160 g	96 g

*measured with the capsule only, but without radio channel

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