

# Quinta TH

Digital Handheld Transmitter

Order # 729.329



Supplied without interchangeable microphone head

## FEATURES

- Ergonomic, anodised aluminium housing
- Various interchangeable microphone heads optional available (recommended: TG V56w cardioid microphone head, electret condenser,)
- Three-coloured backlit soft touch button with braille inscription to switch the microphone on or off
- Direct Sequence Spread Spectrum (DSSS) provides high immunity from interference and unauthorised listening, even when using other radio systems
- Wireless transmission with integrated True Diversity antenna technology for transmitting and receiving
- Three selectable frequency bands : 2.4 / 5.2 / 5.8 GHz
- Automatic or manual silent change to an interference-free frequency response acc. to EN 3000328 ETSI
- Digital 128-bit encryption and additional 24-bit PIN code against unauthorised listening
- Parameters can be programmed via the control unit and the appropriate configuration software
- Automatic Power OFF when the control unit is in the stand-by mode or switched off
- Charging status of the battery can be monitored and transmitted to the control unit
- Operating control LED indicates the status when the minimum capacity is too low
- Charging contacts for charging the rechargeable batteries in the WA-CD charging unit (optional WA-CD as double charger, charging time approx. 2.5 hours)
- Operating time approx. 10 hours (depending on the battery type and frequency band)
- Power supply 2x AA alkaline batteries or 2x AA NiMH batteries

# Quinta TH

## DESCRIPTION

The Quinta TH handheld transmitter is provided with a three-coloured backlit microphone button containing a braille inscription to turn the microphone on or off. The transmitter can be combined with three top microphone heads to ensure superior flexibility for different applications.

With the Automatic Channel Allocation function, the transmitting channels of the microphone units / handheld transmitters are allocated automatically. When the microphone button is pressed in the manual operating mode, the request-to-talk is received by the control unit (a possible external dual colour LED will illuminate red). The control unit checks which of the available receiving channels is free, then the control unit informs the microphone unit / handheld transmitter which channel it should use for transmitting. When the channel of the microphone unit / handheld transmitter is set and checked by the control unit, the microphone is switched on. The ready-to-talk status of the microphone is also indicated by the green lighting microphone button. In the Request-to-Talk-mode of the discussion system the request-to-talk is received, but the microphone is not switched on. The red lighting microphone button indicates that the request-to-talk has been received. The microphone is switched on by the operator at the PC by using the "Quinta Conference" software or a media control system. When the microphone button is pressed once again, the delegate clears his/her request-to-talk.

Depending on the configuration with the "Quinta Conference" software the following operating modes are available:

**Override:** the first microphone is switched off, when the maximum number of active microphones is exceeded.

**Voice activation:** the microphone is switched on, when someone speaks into it.

**Push-To-Talk:** the microphone button is held down, while the participant is speaking.

The parameters of the microphone unit are adjusted via PC by using the "Quinta Conference" software. The parameters are adjusted for all microphone units and handheld transmitters.

All microphone units and handheld transmitters have an individual address. Therefore, microphone units and handheld transmitters can be rented or purchased at any time to complement an existing system. In the rental business existing systems can be complemented in this way.

The DSSS transmission offers high immunity against unauthorised listening with a 128-bit encryption. In addition to this, the conference system including the appropriate microphone units can be protected with PIN code (24-bit). A microphone unit that does not have the correct PIN code will be identified by the control unit and switched off immediately.

The operating time of the transmitter is approx. 10 hours with two AA alkaline batteries or the supplied rechargeable batteries, depending on the participation in the discussion. When the remaining operating time is less than 1 hour, the LED on the bottom of the transmitter starts flashing. When using rechargeable batteries, the charging time for a completely empty rechargeable battery is approx. 2.5 hours by using the optional WA-CD charger. Depending on the use of the handheld transmitter, the charging time can be less.

The microphone unit is switched on by briefly pressing the microphone button once. There are various ways to switch off the microphone unit:

1. Press the microphone button for 3 seconds.
2. Press the standby button of the Quinta CU control unit for 3 seconds to switch off all activated microphone units.
3. Switch off all microphone units via an RS 232 or TCP/IP command from the PC or media control system.
4. Switch off the control unit; after approx. 3 minutes the microphone unit will be switched off.

## SUPPLIED ACCESSORIES

- 1 x Microphone bag
- 1 x MKV 11 microphone clamp
- 2 x AA NiMH batteries 2700 mAh

## OPTIONAL ACCESSORIES

### Interchangeable microphone heads

- |         |  |                 |
|---------|--|-----------------|
| TG V50w | Dynamic, cardioid,<br>incl. storage bag . . . . .            | Order # 711.438 |
| TG V56w | Electret condenser, cardioid,<br>incl. storage bag . . . . . | Order # 711.446 |
| TG V96w | True condenser, cardioid,<br>incl. storage bag . . . . .     | Order # 711.470 |

# Quinta TH

## TECHNICAL SPECIFICATIONS

Operating principle . . . . .	Digital triple band handheld transmitter
Frequency range . . . . .	2400 – 2483.5 MHz 5150 – 5250 MHz 5725 – 5875 MHz
Modulation . . . . .	DSSS (Direct Sequence Spread Spectrum) and QPSK/BPSK (Quadrature/ Binary Phase Shift Keying) digital signal processing acc. to own standards
Max. number of audio streams . . . . .	4 usable channels per system
Signal-to-noise ratio . . . . .	80 dB typ., (unweighted signal-to-noise ratio)
Range between handheld transmitter and control unit . . . . .	> 100 m [109.36 yds] with a direct line of sight (depending on the frequency band)
Power supply . . . . .	100 – 240 V AC 50/60 Hz
Approval . . . . .	world-wide
Transmitter power . . . . .	max. 20 dBm per channel and region (average, duty cycle $\leq$ 30%)*
Max. SPL . . . . .	107 dBu SPL @ 1% THD (with TG V56w)

Internal PGA . . . . .	+25 dB
Power supply . . . . .	2.4 V via 2x AA NiMH batteries 3 V via 2x AA alkaline batteries
Operating time . . . . .	approx. 10 hrs (depending on the battery type and frequency band)
Charging time . . . . .	max. 2.5 hours when the battery is completely empty
Temperature range (at < 90% humidity) . . . . .	+10° – +40°C [+50 °F – +104 °F]
Storage temperature (at < 90% humidity) . . . . .	-20° – +55°C [-4 °F – +131 °F]
Dimensions . . . . .	Length 197 mm [7.76"] / Ø 36 mm [1.42"] (without microphone head)
Weight . . . . .	161 g [5.68 ozs] (without batteries and microphone head)

\*The transmitter power can differ from this value due to specific regulations in various countries.

## ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The digital handheld transmitter with ergonomic, anodised aluminium housing shall be supplied without interchangeable microphone head. For the handheld transmitter there shall be diverse interchangeable microphone heads available (dynamic, electret and true condenser). The handheld transmitter shall be provided with a three-coloured backlit soft touch button containing a braille inscription for switching the microphone on or off. The Direct Sequence Spread Spectrum (DSSS) in the 2.4 / 5.2 and 5.8 GHz frequency range and true diversity antenna technology shall provide a high immunity from interference and unauthorised listening. The digital 128-bit encryption and additional 24-bit PIN code shall avoid unauthorised listening. There shall be an automatic recognition of interference in all frequency bands. There shall be an automatic or manual silent change to an interference-free frequency response acc. to EN 3000328 ETSI. The audio channel allocation of the transmitter shall be processor-controlled and automatic. The handheld transmitter shall be provided with an automatic power off when

the control unit is in the stand-by mode or switched off. The charging status of the battery shall be monitored and transmitted to the control unit. An operating control LED shall indicate the status when the minimum capacity is too low. The handheld transmitter shall be provided with charging contacts for recharging the rechargeable batteries with an optional double charger. The maximum charging time shall be approx. 2.5 hours. The operating time shall be approx. 10 hours (depending on the battery type and frequency band). The power supply shall be via 2x AA alkaline batteries or 2x NiMH rechargeable batteries. The dimensions shall be: length 197 mm / Ø 36 mm (without interchangeable microphone head). The weight shall be 161 g (without batteries and interchangeable microphone head).

Manufacturer: beyerdynamic  
Type: Quinta TH

# Quinta TH

## 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 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.

## TECHNICAL SPECIFICATIONS

Type	TG V50w	TG V56w	TG V96w
Polar pattern	Cardioid	Cardioid	Cardioid
Transducer type	Dynamic	Condenser	Condenser
Dimensions			
Head diameter	54 mm	48 mm	48 mm
Shaft diameter	36 mm	36 mm	36 mm
Length	89 mm	88 mm	91 mm
Weight	146 g	88 g	160 g