

# Quinta TB

Digital, wireless boundary microphone

Order # 729.604



## FEATURES

- 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
- Power supply via integrated NiMH batteries
- 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
- Minimum operating time of 16 hours
- DC connector for power supply operation and charging
- Operating modes in the Conference Mode:
  - Manual
  - Override
  - Push-To-Talk
  - Push-To-Mute
- Operating modes in the Microphone Mode:
  - On/Off
  - Push-To-Mute
  - Global Mute
- Semi-cardioid polar pattern
- Three-coloured backlit soft touch button with braille inscription to switch the microphone on or off
- High-quality housing of synthetic material with a non-glare coating of Alexit soft-touch paint
- Microphone grille in stainless steel look

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## DESCRIPTION

The wireless semi-cardioid Quinta TB boundary microphone with a high-gain-before feedback complements the Quinta conference system. The microphone is provided with a three-coloured backlit microphone button containing a braille inscription to turn the microphone on or off. The microphone has integrated transmitting and receiving antennae (antenna diversity) in a high-quality housing of synthetic material with a black soft touch surface and a microphone grille in stainless steel look. With the Automatic Channel Allocation function, the transmitting channels of the microphone units / boundary microphones 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 / boundary microphone which channel it should use for transmitting. When the channel of the microphone unit / boundary microphone 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.

**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 boundary microphones.

All microphone units and boundary microphones have an individual address. Therefore, microphone units and boundary microphones 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 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.

The microphone is powered via integrated rechargeable NiMH batteries. The operating time is not less than 16 hours. As soon as the remaining battery time is below a certain threshold of 1 hour, the power on LED on the rear of the microphone unit will flash. The microphone can be recharged or permanently operated via a power supply unit connected to the DC connector. The maximum charging time is 2 hours. An LED on the rear of the microphone indicates the battery and charging status. Due to the patented Scudio™ technology interferences by mobile devices are eliminated.

## SUPPLIED ACCESSORY

CA 2459      Power adapter for operating and charging ..... Order # 729.493

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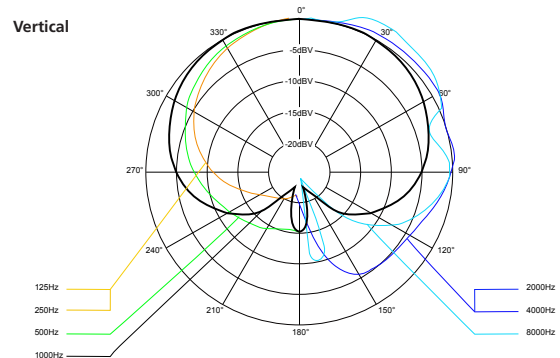
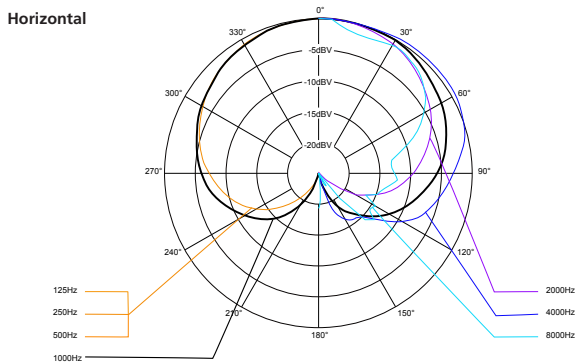
## TECHNICAL SPECIFICATIONS

Operating principle	Digital triple band 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
Range between microphone and control unit	> 100 m [109.36 yds] with a direct line of sight (depending on the frequency band)
Approval	world-wide
Transmitter power	max. 20 dBm per channel and region (average, duty cycle $\leq$ 30%)*
Transducer type	Condenser (back electret)
Operating principle	Pressure gradient
Polar pattern	Semi-cardioid
Dynamic range	68 dB (A-weighted)
Open circuit voltage	600 mV / Pa (-4.5 dBV)
Max. SPL at 1 kHz	100 dB SPL
RFI proof	Studio™ technology

Power consumption	approx. 100 mA (microphone open)
Power supply	4.8 VDC via integrated NiMH rechargeable batteries (4 cells, each with 2100 mAh)
Operating time	16 hours at least; DC powered permanent operation possible with CA 2459 mains charger adapter
Charging time with power supply unit (15 V DC, 1.6 A)	max. 2 hours
Temperature range (at < 90% humidity)	+10 °C – +40 °C (+50 °F – +104 °F)
Storage temperature (at < 90% humidity)	-20 °C – +55 °C (-4 °F – +133 °F)
Dimensions (L x W x H)	approx. 138 x 76 x 38 mm (5.4 x 3 x 1.5 in)
Weight	approx. 410 g (0.9 lbs)

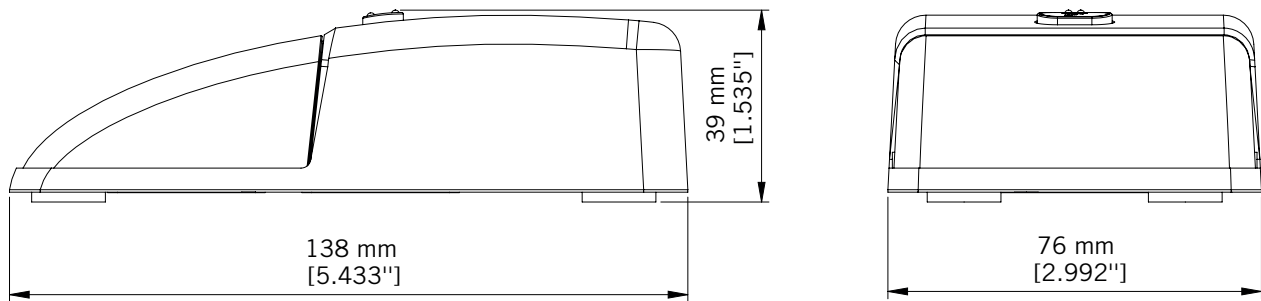
\*The transmitter power can differ from this value due to specific regulations in various countries.

## Quinta TB polar pattern



# Quinta TB

## DIMENSIONS



All dimensions in mm and [inch]

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