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# TECHNICAL SPECIFICATION

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## Requirements for Radio Microphones, In-Ear Monitoring and Ancillary Equipment

TS RE 035, Version 1.0

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Telecommunications Regulatory Authority (TDRA)  
P O Box 26662, Abu Dhabi, United Arab Emirates (UAE) [www.tdra.gov.ae](http://www.tdra.gov.ae)

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## 1 General requirements

Technical specification has been prepared and approved by the Telecommunications Regulatory Authority (TDRA) based on the Telecommunication apparatus Type Approval Regime.

Several technical specifications may apply to the equipment. If equipment within the scope of this technical specification also incorporates functions that are covered by another technical specification, the relevant technical specification is applied to each function separately. The influence of one function on the other is taken into account.

## 2 Scope

This technical specification applies to Radio Microphones, In-Ear Monitoring and Ancillary Equipment.

This technical specification defines minimum technical requirements for health and safety, electromagnetic compatibility, efficient use of radio spectrum and additional essential requirements based on the Telecommunication apparatus Type Approval Regime.

Unless the context requires otherwise, the expressions and wordings appearing in the Telecommunication apparatus Type Approval Regime shall have the same meaning described thereto.

## 3 Technical Requirements

### 3.1 Efficient use of radio spectrum

The equipment shall comply with allocated frequency bands given in the National Frequency Allocation Table (NFAT), UAE 9 and the TDRA regulation - Short Range Devices.

The equipment shall meet the requirements of following standard(s):

EN 300 220-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW; Part 2: Harmonized EN covering essential requirements under article 3.2 of the

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- R&TTE directive.
- EN 300 440-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 2: Harmonized EN under article 3.2 of the R&TTE directive.
- EN 300 422-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless microphones in the 25 MHz to 3 GHz frequency range; Part 2: Harmonized EN covering essential requirements under the R&TTE directive.
- EN 301 357-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Cordless audio devices in the range 25 MHz to 2 000 MHz; Consumer radio microphones and in-ear monitoring systems operating in the CEPT harmonised band 863 MHz to 865 MHz; Part 2: Harmonised EN covering essential requirements under the R&TTE directive.
- EN 301 840-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Digital radio microphones operating in the CEPT harmonised band 1 785 MHz to 1 800 MHz; Part 2: Harmonised EN covering essential requirements under the R&TTE directive.

### 3.2 Electromagnetic compatibility

The equipment shall meet the requirements of following standard(s):

- EN 301 489-1 Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.
- EN 301 489-9 Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 9 Specific conditions for wireless microphones, similar Radio

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Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices.

### 3.3 Health and safety

The equipment shall meet the requirements of Technical specification TS HS 001.

### 3.4 Additional essential requirements

No additional requirements.

### 3.5 Validity of standards

If no issue or revision number is quoted along with the title of a standard, the valid edition should be used. The valid of the standard can be checked on:

- For EN standards:

[http://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/rte/index\\_en.htm](http://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/rte/index_en.htm);