



United Arab Emirates



TECHNICAL SPECIFICATION

Radio Microphones/In-Ear Monitoring and Ancillary Equipment

Version 1.0

Document Date: 6 October 2006

Telecommunications Regulatory Authority (TRA)
P O Box 26662, Abu Dhabi, United Arab Emirates (UAE)
www.tra.gov.ae



Technical Specification, EMC and Safety Requirements, Version 1.0, Issued 16 Month 2006

Version Control:

Version:	Issue Date:	Reason for Issuance:
1.0	6 October 2006	First version of Radio microphones/In-ear monitoring and ancillary equipment



Technical Specification, EMC and Safety Requirements, Version 1.0, Issued 16 Month 2006

TABLE OF CONTENTS

1.	Scope	Error! Bookmark not defined.
2.	Definitions.....	Error! Bookmark not defined.
3.	Spectrum Allocations.....	Error! Bookmark not defined.
4.	Technical Requirements.....	Error! Bookmark not defined.



1. Scope

This specification lists the technical requirements applicable to the following types of radio equipment:

Radio microphones/In-ear monitoring and ancillary equipment

2. Definitions

Unless the context requires otherwise, the expressions and wordings appearing in Federal Law by Decree No. (3) of 2003 Regarding the Organisation of the Telecommunications Sector shall have the same meaning ascribed thereto in the above-mentioned Federal Law by Decree, and the following expression and wording shall have the following meanings assigned thereto:

ANSI	American National Standards Institute ¹
CENELEC	European Committee for Electro-technical Standardisation ²
CISPR	International Special Committee for Radio Interference ³
IEC	International Electro-technical Commission ⁴
ITU	International Telecommunications Union ⁵
ETSI	European Telecommunications Standards Institute ⁶

¹ ANSI standards can be obtained from, <http://webstore.ansi.org>

² CENELEC standards can be obtained from, www.cenelec.org

³ CISPR standards can be obtained from, www.cenelec.org

⁴ IEC standards can be obtained from, www.iec.ch

⁵ ITU standards can be obtained from, www.itu.int

⁶ ETSI standards can be obtained from, www.etsi.org



3. Spectrum Allocations

The following frequency bands are allocated for use by radio equipment falling within the scope of this specification:

- Analogue Radio Microphones: 470.000 – 862.000 MHz
- Digital Radio Microphones: 1785 – 1800 MHz
- In-Ear Monitoring: 862.000 – 870.000 MHz

Note: Frequency allocations can change and this information should be checked with TRA Spectrum Affairs department.

4. Technical Requirements

General

All equipment shall comply with TRA specification TS001 concerning safety and EMC performance.

Specific

Unless stated otherwise below, the latest published versions of the following standards shall apply:

- ETSI EN 300 220-3** 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 500mW; Part 3: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

- ETSI 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



Technical Specification, EMC and Safety Requirements, Version 1.0, Issued 16 Month 2006

- ETSI 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
- ETSI 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: Harmonized EN covering essential requirements under the R&TTE directive
- ETSI 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
- ETSI 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
- ETSI 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 Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices