



CITC Technical Specification

Document Number: RI044
Revision: Issue 2
Date: 10/01/2010 G

Specification for Radio Microphones/In-Ear Monitoring and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Scope

This document applies to Radio Microphones/In-Ear Monitoring and Ancillary Equipment.

All telecommunications and radio terminal equipment must comply with the relevant technical specifications established by CITC. In addition, such equipment may be subject to regulations for Declaration of Conformity or registration. See <http://www.citc.gov.sa/> for details.

If more than one interface type is offered by a piece of equipment, each interface must meet the applicable technical specifications.

Entry into force

This specification shall enter into force on 10/01/2010 G

Frequency of operation

Following table is showing information on frequency bands, maximum output power and applicable specifications:

Frequency band	Maximum Output Power or Magnetic Field	ETSI Standard
29.7 - 47.0 MHz	10 mW e.r.p.	EN 300 422
173.965 - 174.015 MHz	2 mW e.r.p.	EN 300 422
863 - 865 MHz	10 mW e.r.p.	EN 300 422 EN 301 357
174 - 216 MHz	50 mW e.r.p.	EN 300 422
470 - 862 MHz	50 mW e.r.p.	EN 300 422
1785 - 1795 MHz	20 mW e.i.r.p. 50 mW e.i.r.p.	EN 300 422 EN 301 840
1795 - 1800 MHz	20 mW e.i.r.p. 50 mW e.i.r.p.	EN 300 422 EN 301 840

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications as applicable:

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.

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

If no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General

In addition to meeting the above requirements, all equipment must comply with the requirement of CITEC specifications GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

With the exception of hearing aid applications for hearing-impaired people, which may be used indoor or outdoor, the use of all other equipment is restricted to indoor use only. It is not necessary to obtain a licence for hearing aid applications.

Obtaining technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI website www.etsi.org.

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces can be found by visiting operator's website.

Document history

Description	Status	Date
	Issue 1	11/03/2006 G
	Issue 2	10/01/2010 G