CITC Technical Specification

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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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This publication is a translation. In case of divergence; the original Arabic text shall prevail.
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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:

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

**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 CITC 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

<table>
<thead>
<tr>
<th>Description</th>
<th>Status</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issue 1</td>
<td></td>
<td>11/03/2006 G</td>
</tr>
<tr>
<td>Issue 2</td>
<td></td>
<td>10/01/2010 G</td>
</tr>
</tbody>
</table>

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