

UNITED REPUBLIC OF TANZANIA
TANZANIA COMMUNICATIONS REGULATORY AUTHORITY

ISO 9001:2015 CERTIFIED



MINIMUM TECHNICAL SPECIFICATIONS

FOR

RADIO HEARING AIDS

APRIL 2018

1.0 General Requirements

1.1 Scope of Specification

This Specification defines the minimum technical requirements for Radio Hearing Aids to operate in one of the authorised frequency bands or frequencies, and transmit within the corresponding output power levels given in short range devices minimum technical specifications.

1.2 Safety and Health

Use of radio hearing devices shall comply with International Standards as mentioned herein.

Compliance with these standards does not by itself confer immunity from legal obligations and requirements imposed by national health or safety authorities. TCRA may invalidate the equipment registration if so requested by the relevant authority for reasons of safety or hazards that would likely be caused to users.

1.3 Electrical Safety Requirements

Manufacturers shall demonstrate that the radio hearing aids have been tested and certified to meet the following safety standards:-

- a) **IEC 60950/EN 60950:** Safety of Information Technology equipment including Electrical business equipment
- b) **IEC 60215/ EN 60215:** Safety requirements for radio transmitting equipment

2.0 Technical requirements

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

Frequency band	Maximum Output Power or Magnetic Field	Standard
173.965-174.015 MHz	2 mW e.r.p.	EN 300 422

Note: Frequency allocations can change and this information should be checked with Tanzania Communications Regulatory Authority (TCRA).

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

- a) **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 under article 3.2 of the R&TTE directive.

- b) **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.
- c) **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.
- d) **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 500 mW; Part 3: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive.
- e) **ETSI EN 301 489-3:** Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz.