

QUESTION ITU-R 121/6

Spectrum usage and user requirements for wireless microphones

(2006)

The ITU Radiocommunication Assembly,

considering

- a) that separate applications exist for broadcast and non-broadcast application of wireless microphones;
- b) that separate applications exist for news, sports, drama, light entertainment, studio and non-studio programme production within broadcasting use of wireless microphones;
- c) that programme production may require the application of various technologies in the use of wireless microphone systems;
- d) that there is a requirement within a wireless microphone system to assign a range of selectable frequencies to each system to permit frequency management and mitigate interference;
- e) that wireless microphones are currently assigned frequencies in present television systems and several administrations are undertaking the transition from analogue to digital terrestrial television broadcasting;
- f) that wireless microphone systems are used in many countries and are deployed for television production in other countries by national broadcasting organizations;
- g) that liaison status exists with the International Organization for Standardization (ISO)/International Electrotechnical Commission (IEC) working on their standardization of generic consumer and non-consumer electronics devices;
- h) that it is desirable to minimize the potential for interference in these systems while maximizing frequency management, mitigating interference and increasing global harmonization of the selectable frequencies;
- j) that changes to the selectable frequency ranges can only be introduced if compatibility with existing receivers, at least during a sufficiently long transition period, is retained,

decides that the following Question should be studied

- 1 What are the operating characteristics for broadcast wireless microphone systems deployed in the frequencies currently allocated in the television broadcasting bands?
- 2 What are the optimum arrangements for frequency selection in wireless microphone systems for broadcast and non-broadcast application?
- 3 What steps can be taken for frequency management when broadcast use of wireless microphone systems is applied in bands allocated to broadcasting?
- 4 What method should be adopted for frequency selectivity in broadcast wireless microphone systems?
- 5 What transmission artefacts should be avoided in the design of broadcast wireless microphone systems?
- 6 What are the optimum bandwidth requirements for broadcast and non-broadcast wireless microphone systems?
- 7 What unified standards should be adopted in the design of broadcast wireless microphone systems to achieve global interoperability?

further decides

- 1 that the results of the above studies should be addressed to prepare new Recommendations and Reports;
- 2 that the above studies should be completed by 2007.

Category: S1