



Radiocommunication Study Group 6

QUESTION ITU-R 2/6

Audio metering characteristics suitable for use in digital sound production*

(2001)

The ITU Radiocommunication Assembly,

considering

- a) that Recommendation ITU-R BS.645 specifies metering characteristics for analogue sound programmes;
- b) that modern digital sound transmission techniques offer an extremely wide dynamic range;
- c) that digital media overload abruptly and thus even momentary overload should be avoided;
- d) that listeners desire audio programmes to be uniform in subjective sound level;
- e) that current knowledge of human psychoacoustics may make it possible to create a metering algorithm that would provide for indication of perceived loudness;
- f) that the state of digital signal processing makes it practical to implement complex algorithms into cost-effective devices,

decides that the following Question should be studied

- 1** What audio metering characteristics should be used to provide an accurate indication of signal level in order to assist the operator to avoid overload of digital media?
- 2** What audio metering characteristics should be used to provide accurate indication of subjective programme loudness?
- 3** What display characteristics should be employed to most effectively indicate the metered values to the operator?
- 4** What method should be employed to evaluate the effectiveness of the metering and display characteristics that might become the subject of a Recommendation(s)?

further decides

- 1** that the results of the above studies should be included in (a) Recommendation(s);

* In view of the anticipated digital nature of the entire broadcast chain, it is believed the same characteristics would apply throughout the chain.

2 that the above studies should be completed by 2005.
