Opinion ITU-R 102

The use of UHDTV image systems described in Recommendation
ITU-R BT.2020 for improved HDTV picture quality in
programme production, distribution and broadcasting

(2013)

ITU Radiocommunication Study Group 6,

considering

*a)* that Recommendation ITU-R BR.785 points out that when programmes are produced and post-produced using a television system whose parameter values exceed the parameter values of the television system intended for distribution of the programme, there is an improvement in the image quality of the programmes so distributed and broadcast;

*b)* that according to information provided to Study Group 6, several television broadcasters and programme makers are already capturing programme material in UHDTV[[1]](#footnote-1) for the production and post-production of programmes to be distributed and broadcast in HDTV[[2]](#footnote-2);

*c)* that this practice can also be used in order to benefit from the increased quality headroom of the UHDTV programme images so captured, which would facilitate complex image post-processing without incurring any image impairment that could be noticed on the finished HDTV programme;

*d)* that furthermore, the use of this practice in the production of television programmes allows broadcasters and television programme makers to store their programmes in the television system in which they were captured, thus building a library of superior image quality programmes that can be used for international programme exchange as well as, eventually, for future broadcasting,

is of the opinion

that the attention of manufacturers of professional television production equipment and systems should be called to the use of UHDTV image systems described in Recommendation
ITU-R BT.2020 to produce and archive programmes in the highest quality for HDTV delivery in order to encourage the availability of a comprehensive inventory of the image processing and post-processing devices required to readily implement such practice.

1. UHDTV is the acronym of the family of 3 840 × 2 160 and 7 680 × 4 320 television image systems specified in Recommendation ITU-R BT.2020. [↑](#footnote-ref-1)
2. HDTV is the acronym of the family of 1 920 × 1 080 television image systems specified in Recommendation ITU-R BT.709. [↑](#footnote-ref-2)