

EBU

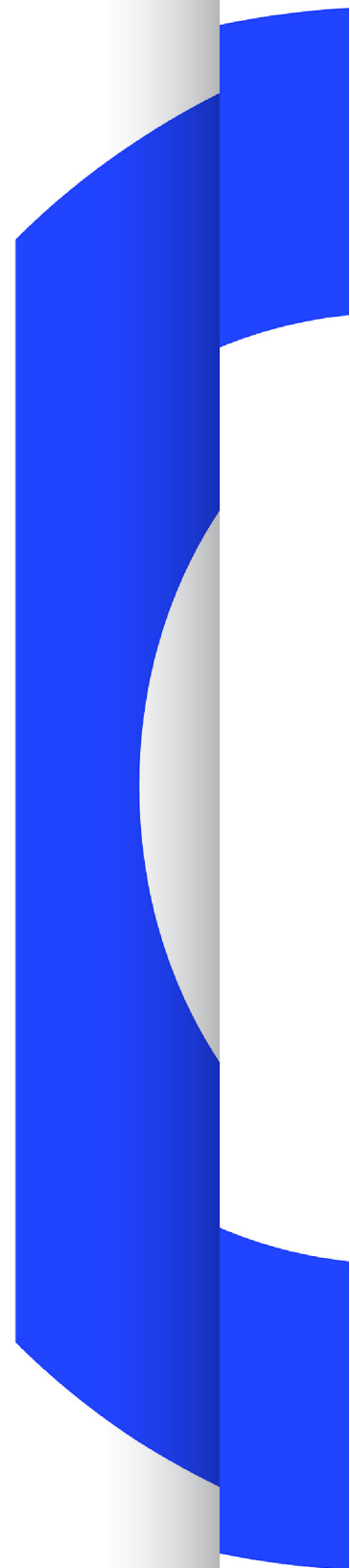
OPERATING EUROVISION AND EURORADIO

R 112

EBU RECOMMENDATION ON HDTV STANDARDS

STATUS: RECOMMENDATION

Geneva
July 2015



Recommendation on HDTV standards

<i>EBU Committee</i>	<i>First Issued</i>	<i>Revised</i>	<i>Re-issued</i>
TC	2004	07.2015	

Keywords: HDTV, Distribution, progressive scanning, interlaced scanning.

Recommendation

The EBU, considering that,

1. There have been numerous HDTV developments in the media industry over the past years, and in particular that,
 - new compression standards such as H.265/HEVC perform best with progressive scanned image formats,
 - the best bitrate/quality trade-off can be achieved with video compression and progressive scanned image formats,
 - consumer displays in the home operate in progressive mode, thus providing them with a progressive HDTV input format avoids de-interlacing,
 - emerging UHD TV standards are based only on progressive scanned image formats,
 - OTT and internet delivery of TV operates best with progressive scanned image formats.
2. Production and distribution standards do not need to be identical.

Recommends that:

distribution standards for HDTV be based on progressive scanning¹.

Note: Although there are strong technical arguments in favour of progressive scanning for distribution, the EBU Technical Committee recognises that some broadcasters might wish to broadcast 1080i/25 programme material. As consumer electronics equipment (e.g. set-top boxes and displays) will accept an increasing² variety of HDTV formats such as 720p/50, 1080p/50 and 1080i/25, broadcasters will be able to select any of these image formats.

¹ 720p/50 has been the optimum solution in the H.264 environment but currently 1080p/50 is the attractive option for H.265/HEVC.

² For example HDTV displays with the DigitalEurope HD Ready 1080p and HDTV 1080p logo; see <http://www.digitaleurope.org/Services/Highdefinitionlogos/HDreadyandHDTV1080p.aspx>.