

VIDEO MONITORS

EBU Tech 3320 has been revised to include UHD, High Dynamic Range and Wide Colour Gamut monitors. It now provides the following Grades: 1A, 1B, 2, and 3.



BACKGROUND

Broadcast video monitors are used in professional production environments for the evaluation and control of images. The advent of High Dynamic Range (HDR) and Wide Colour Gamut (WCG) video naturally leads to consideration of what constitutes a good monitor for use with such signals.

HOW THE EBU HELPS

The EBU has updated its broadcast monitors reference specification: [EBU Tech 3320](#) *User requirements for Video Monitors in TV Production*. Version 4.0 covers both HD and UHD/HDR monitors and defines what constitutes a Grade 1A, 1B, 2 and 3 monitor.

It is recognized that at present, few, if any, monitors can display the full colour gamut or brightness of the ITU-R BT.2100 signal. To cater for this, Tech 3320 v4.0 introduces two levels for Grade 1 monitors which can display HDR images:

Grade 1A HDR: monitors that accurately display the images of the standard it is monitoring

Grade 1B HDR: monitors with reduced Gamut and/or limited brightness, but in all other aspects Grade 1A

HLG AND PQ

The specification for HDR monitors covers both HLG and PQ as specified in ITU-R BT.2100, allowing manufacturers a choice of implementations.

PROGRESSIVE/INTERLACED

All HDR signals are progressive, but it is expected that all Grade 1A and 1B monitors can also accurately display interlaced video signals without using motion interpolation.

GUIDANCE

Tech 3320 offers clear guidance for EBU Members, suppliers and vendors when they discuss plans and intentions for (future) monitor investments.

[EBU Tech 3325](#) provides the relevant measurement methodologies for the parameters described in [EBU Tech 3320](#).

FIND OUT MORE

EBU Strategic Programme on Video Systems tech.ebu.ch/vs