

SCHEDULES

SCHEDULE 20

Regulation 41

Measurement methods for electronic displays

1. The measurement methods for electronic displays are as follows.

General conditions

2.—(1) Measurements for electronic displays must meet the technical definitions, conditions, equations and parameters set out in this Schedule.

(2) Electronic displays which can operate in both 2D and 3D modes must be tested in 2D mode.

(3) An electronic display which is split into two or more physically separate units, but placed on the market in a single package, must be treated as a single electronic display for the purposes of this Schedule.

(4) Where multiple electronic displays that can be placed on the market separately are combined in a single system, the individual electronic displays must be treated as single displays.

(5) Measurements must be made at an ambient temperature of 23 °C +/- 5 °C.

Measurements of on mode power demand

3.—(1) Measurements of the power demand (“ P_{measured} ”) referred to paragraph 2 of Schedule 19 must meet the following conditions.

(2) Measurements must be made in the normal configuration.

(3) Measurements must be—

(a) made using a dynamic broadcast-content video signal representing typical broadcast content for electronic displays in standard dynamic range (SDR); and

(b) the average power consumed over 10 consecutive minutes.

(4) Measurements must be made after the electronic display has been in the off mode or, if an off-mode is not available, in standby mode, for a minimum of 1 hour immediately followed by a minimum of 1 hour in the on mode and must be completed before a maximum of 3 hours in on-mode.

(5) The relevant video signal must be displayed during the entire on mode duration.

(6) For electronic displays that are known to stabilise within 1 hour, the durations referred to in sub-paragraph (4) may be reduced if the resulting measurement can be shown to be within 2 per cent of the results that would otherwise be achieved using the full durations.

(7) Where ABC is available, measurements must—

(a) be made with ABC switched off; or

(b) if ABC cannot be switched off, must be performed in an ambient light condition of 100 lux measured at the ABC sensor.

Status: This is the original version (as it was originally made). This item of legislation is currently only available in its original format.

Measurements of peak white luminance

4. Measurements of peak white luminance referred to paragraph 5 of Schedule 19 must be made—

- (a) with a luminance meter, detecting that portion of the screen exhibiting a full (100 per cent) white image, which is part of a ‘full screen test’ pattern that does not exceed the average picture level (APL) point where any power limiting or other irregularity occurs in the electronic display luminance drive system affecting the electronic display luminance; and
- (b) without disturbing the luminance meter’s detection point on the electronic display whilst switching between any of the conditions referred to in paragraph 5 of Schedule 19.