

## CORRIGENDUM 1

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### Annex B

Replace the existing Annex B, by the following:

### Annex B (informative)

#### Non-linear encoding for scRGB : scRGB-nl and its YCC Transformation: scYCC-nl

##### B.1 General

This annex describes non-linear encoding for scRGB: scRGB-nl and its YCC transformation: scYCC-nl. Applications and hardware developers who want to support various colour compression schemes based on luma-chroma-chroma spaces can utilise this standard. This transformation is targeted for compression and storage, and is not targeted for displaying images.

##### B.2 Non-linear encoding in 12-bit

The relationship is defined as follows:

If  $R_{scRGB}, G_{scRGB}, B_{scRGB} \geq 0,003\ 130\ 8$

$$\begin{aligned} R'_{scRGB} &= 1,055 \times R_{scRGB}^{(1,0/2,4)} - 0,055 \\ G'_{scRGB} &= 1,055 \times G_{scRGB}^{(1,0/2,4)} - 0,055 \\ B'_{scRGB} &= 1,055 \times B_{scRGB}^{(1,0/2,4)} - 0,055 \end{aligned} \quad (B.1)$$

If  $0,003\ 130\ 8 > R_{scRGB}, G_{scRGB}, B_{scRGB} > -0,003\ 130\ 8$

$$\begin{aligned} R'_{scRGB} &= 12,92 \times R_{scRGB} \\ G'_{scRGB} &= 12,92 \times G_{scRGB} \\ B'_{scRGB} &= 12,92 \times B_{scRGB} \end{aligned} \quad (B.2)$$

If  $R_{scRGB}, G_{scRGB}, B_{scRGB} \leq -0,003\ 130\ 8$

$$\begin{aligned} R'_{scRGB} &= -1,055 \times (-R_{scRGB})^{(1,0/2,4)} + 0,055 \\ G'_{scRGB} &= -1,055 \times (-G_{scRGB})^{(1,0/2,4)} + 0,055 \\ B'_{scRGB} &= -1,055 \times (-B_{scRGB})^{(1,0/2,4)} + 0,055 \end{aligned} \quad (B.3)$$

12 bit non-linear version of scRGB-nl:  $R_{scRGB-nl}, G_{scRGB-nl}, B_{scRGB-nl}$  is defined as:

$$\begin{aligned} R_{scRGB-nl} &= \text{round}(1\ 280 \times R'_{scRGB} + 1\ 024) \\ G_{scRGB-nl} &= \text{round}(1\ 280 \times G'_{scRGB} + 1\ 024) \\ B_{scRGB-nl} &= \text{round}(1\ 280 \times B'_{scRGB} + 1\ 024) \end{aligned} \quad (B.4)$$