

How to achieve darker black tones on the CG232W and how to change the depth differentiation ?

Several predefined colour modes and their related gamma curves are accessible through the keys on the monitor (sRGB, Rec709, EBU, SMPTE-C, DCI). Certainly the Rec709 – according to the norm – with its gamma value of around 1,85* is defined. In practice however, the darker tones are sometimes experienced as too bright.

How to achieve the darker black values on CG232W and how to alter the depth differentiation?

Ideally the full automatic calibration through EIZOs ColorNavigator takes care of this. This calibration is performed through a separate Windows or Mac computer when using a colour measurement device (Colorimeter or Spectrophotometer).

On sets whitepoint, RGB colours, maximal brightness and the tone value curve from white to black. For contents with REC 709 or EBU colours, we'd recommend a brightness of 80 to 100 cd/m² and a gamma of 2,35.

After the start of ColorNavigator you can set it to „manual“ with „Create a new target“ then „RGB Gamut“. Afterwards, the CIE x-/y coordinates for whitepoint and the RGB basic colours can be entered.

	x	y	Gamma
White:	0,3129	0,3290	
Red:	0,6400	0,3300	2,35
Green:	0,3000	0,6000	2,35
Blue:	0,1500	0,0600	2,35

Example for REC 709 (x/y values)

	x	y	Gamma
White:	0,3129	0,3290	
Red:	0,6400	0,3300	2,35
Green:	0,2900	0,6000	2,35
Blue:	0,1500	0,0600	2,35

Example for EBU (x/y values)

Afterwards the values for black and gamma can be chosen.

All RGB(s)

White:

1.0 1.4 1.8 2.2 2.6 L*

Example for the gamma setting with the slide bar

After the definition of the other values, the CG232W can automatically be calibrated to these data (this takes approx. 5 to 10 minutes). Once set, these values are stored until the next calibration and can always be recalled later.

Please note: Through the calibration mentioned here above, whitepoints and tone value curves can be emulated within the physical colour spaces as almost arbitrary colour spaces. This could be useful when the required whitepoint warmer or colder is than the norm prescribes. Or when they should be adapted on available (CRT) monitors

* (linear in depth in gamma 2,2)