

lenovo[®]

EnergyStar7.0 Assessment & Feedback

Product Development, Visuals BU

Thank You

- Lenovo appreciates the opportunity to participate and provide feedback in the ENERGY STAR draft revision process by the EPA
- Lenovo is committed to environmental leadership in all of our business activities from operations to product design and recycling solutions. We support EPA's efforts to protect the environment through energy efficient products and practices.

Lenovo's Opinion – Add color gamut as a factor in the formula

Lenovo suggests to add color gamut factor in the formula due to below reason:

- Panel power consumption vary for the same size & same resolution, but different color gamut.
 - Higher color gamut have higher power consumption
 - Take below chart as an example, and other size should be same.
- Lenovo understands and agrees with the EPA position on being technology neutral.
- Color is a specification for a display panel, not a specific technology.
- Taking color out of the specification will favor low color gamut displays (lower spec)

Panel maker	Panel type	Diagonal Viewable Screen Size (in.)	Resolution	Color Gamut	Panel Power Consumption @200nits
LGD	LM238WR1-SLA1	23.8	3840x2160	Adobe RGB	37.5
	LM238WR2-SPA1		3840x2160	sRGB	21.8
LGD	LM270WQ3-SLA1	27	2560X1440	105.9% NTSC	33.7
AUO	M270DAN01.1		2560X1440	75% NTSC	23.9

Comparison chart between different color gamut

Lenovo's Opinion — Add viewing angle as a factor in the formula

Lenovo also suggests to add viewing angle factor in the formula due to below reason:

- Different viewing angle panel has different power consumption for the same size & same resolution.
 - Normally, wider viewing angle panel has higher power consumption
- Lenovo understands and agrees with the EPA position on being technology neutral.
- Wide viewing angle is a specification for a display panel, not a specific technology.
- Taking viewing angle out of the specification will favor narrow viewing angle displays (lower spec)

thank you grazie **merci** danke **grazias** 謝謝 **спасибо**
gracias **obrigado** ありがとう **dank** **takk** **bedankt** **dakujem**