|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Subclauses in the Document****ISO 16505** | **Applicable for type approval****Y/N/R** | **Paragraphs providing Replacement Provisions in Annex 12** | **Applicable for type approval****component level** | **Applicable for type approval****vehicle level** |
| 6.1 System documentation | replaced by | 2.1 | X | X |
| 6.2 Intended use | yes |  |  | X |
| 6.2.1 Default view | yes |  |  | X |
| 6.2.2 Adjusted default view | replaced by | 2.2 |  | X |
| 6.2.3 Temporary modified view | no  |  ~~Modified View~~ |  |  |
| 6.2.3.1 Example of temporary changed field of view | No | ~~2.3.1 (not needed!)~~ |  |  |
| 6.2.3.2 Example of temporary changed magnification factor | no | ~~2.3.2 (not needed!)~~ |  |  |
| 6.2.4 Luminance and contrast adjustment | yes (sentence 1)no (sentence 2)yes (sentence 3) |  | X | X |
| 6.2.5 Overlays | replaced by | 2.4 | X | X |
| 6.3 Operating readiness (system availability) | replaced by | 2.5 | X | X |
| 6.4 Field of view | yes |  |  | X |
| 6.5 Magnification and resolution (including subclauses) | yes |  | X |  |
| 6.6 Magnification aspect ratio | no (sentence 2,3)yes (all other sentences) |  | X |  |
| 6.7 Monitor integration inside the vehicle | replaced by | 2.6 |  | X |
| 6.8 Image quality | yes |  | X |  |
| 6.8.1 Monitor isotropy (including subclauses) | yes |  | X |  |
| 6.8.2 Luminance and contrast rendering | replaced by | 2.7 | X |  |
|  |  | 2.8 Grey scale rendering | X |  |
| 6.8.3 Color rendering | no (last sentence, below figure)yes (all other sentences) |  | X |  |
| 6.8.4 Artefacts | yes |  | X |  |
| 6.8.4.1 Smear | replaced by | 2.9 x.6 | X |  |
| 6.8.4.2 Blooming and lense flare | yes |  | X |  |
| 6.8.4.3 Point light sources | replaced by | 2.10 | X |  |
| 6.8.4.4 Color noise | replaced by | 2.11 | X |  |
| 6.8.4.5 Chromatic abbaration | no |  | X |  |
| 6.8.5 Sharpness and depth of field (including subclauses) | yes |  | X |  |
| 6.8.6 Geometric distortion | replaced by | 2.12 | X |  |
| 6.8.7.1 Pixel faults | replaced by | 2.13 x.10 | X |  |
| 6.8.7.2 Flicker | replaced by | 2.14 | X |  |
| 6.8.7.3 Virtual artefacts | No | ~~2.15 (not needed)~~ |  |  |
| 6.8.7.4 Gloss of the monitor housing | No | ~~2.16 (not needed)~~ |  |  |
| 6.9 Time behavior |  |  | X |  |
| 6.9.1 Frame rate | yes |  | X |  |
| 6.9.2 Image formation time | replaced by | ~~2.17~~ 2.15 | X |  |
| 6.9.3 System latency | yes |  | X |  |
| 6.10 Failure behavior | replaced by | ~~2.18~~ 2.16 | X |  |
| 6.11 Quality and further ergonomic requirements | no |  |  |  |
| 6.11.1 Needs of older persons |  |  |  |  |
| 6.11.1.1 Decreasing accommodation | yes (last sentence)no (all other sentences) |  |  | X |
| 6.11.1.2 Glare due to high luminance of the monitor | yes (sentence 1)no (sentence 2) |  | X |  |
| 6.12 Influences from weather and environment | yes (last sentence of last bullet point)no (all other sentences) |  |  | X |
|  |  | 2.18.Safety of electronic systems for indirect vision |  | X |
|  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

x.6 Use the Test 4.1 defined in ISO 165505 subclause 7.8.2 and first check if there is any occurrence of smear effects. If any smear is observed, check that the luminance level caused by the smear is less than 10 % of the maximum luminance value of the displayed glare source luminance level, which is causing the smear effect.

x.10 Verify that for CMS of Class I, II and III the maximum distortion within the minimum required field of view does not exceed 20 % relative to recto-linear or pinhole projection. Follow test procedure described in ISO 16505 Annex G.3