

technical specifications
 autostereoscopic 3D display device

D-UP3218K_3D-A

V1.0 / 22.05.2019



records of revision

| revision | date | revised | note |
|----------|------------|---------|-----------------|
| 1.0 | 2019-05-22 | Sigwart | initial release |
| | | | |
| | | | |

1 General

The D-UP3218K_3D-A is DELL standard 2D display device that has been modified in a way to become an autostereoscopic 3D-Display in landscape format, which provides spatial visualization without the need of glasses. To achieve spatial visualization, the 3D-Display needs to be driven with content that is prepared in special way.

following versions are available:

- D-UP3218K_3D-A

2 Intended field of usage

The device is designed to demonstrate the effect and the quality of 3D Global's autostereoscopic 3D technology on a 32" sized 8k resolution sample display. Since this device is a modified standard 2D display, the original certifications (such as CE) might be affected, thus the device is intended for demonstration purposes only and shall not be sold as a commercial product without verifying required certifications.

3 Display specifications

| Parameter | Value | Unit | Note |
|------------------------|--|-------|-------|
| display size | 81,3 (32") diagonal | cm | - |
| active area | 698,1 (H) x 392,7 (V) | mm | - |
| native pixel count | 7680 (H) x 4320 (V) | pixel | UHD-2 |
| native pixel alignment | 1 pixel =R+G+B subpixel vertical stripe | - | - |
| front surface | no protection lenticular aligned towards user | - | - |

4 Optical Specifications

| Parameter | Value | Unit | Note |
|------------------------------|------------------|-------------------|---|
| max. brightness | 200 (typ.) | cd/m ² | average of 5 points see note 4-1 see note 4-2 |
| contrast ratio | 1300:1 (typ.) | - | see note 4-1 see note 4-2 |
| number of 3D views | 8 | - | - |
| optimal 3D viewing distance | 120 | cm | - |
| width of each 3D zone | 52 | cm | measured in ideal viewing distance |
| viewing angle horizontal | +60 / -60 (typ.) | deg | - |
| viewing angle vertical | +60 / -60 (typ.) | deg | - |
| native color depth per color | 10 | bit | 1,07 Bil colors |

optical characteristics measured in dark environment after 30 minutes of operation / PWM duty = 100%

Note 4-1

Refer to specification of underlying LCD-panel for details

Note 4-2

All views driven identical with 100% white

5 Electrical specifications

| Parameter | Value | Unit | Note |
|-------------------|-----------------------|------|---|
| power input | 120/230V AC / 50/60Hz | - | |
| power consumption | 90 (typ) | W | - |
| signal input | 2 x DisplayPort | - | original delivered cables MUST be used ! |

6 Mechanical specifications

| Parameter | Value (approx.) | Unit | Note |
|----------------------------|-----------------|----------------|------------|
| device outer dimensions | 721 x 422 x 55 | W x H x D (mm) | w/o stand |
| | 721 x 618 x 222 | | with stand |
| device weight | 9 | kg | w/o stand |
| | 12,5 | | with stand |

7 Environment specifications

| Parameter | Value | Unit | Note |
|---|----------------------------|------|------|
| ambient temperature for operation | 0 - +35 | °C | - |
| ambient humidity | 10%-80% No condensation | | |

8 Miscellaneous

| Parameter | Value (approx.) | Unit | Note |
|-----------------------------|---|----------------|---|
| package outer dimensions | 850 x 550 x 300 | W x H x D (mm) | approx. |
| package weight | 17 | kg | - |
| delivered items | <ul style="list-style-type: none"> • Display device • Power cable • 2 x special DisplayPort signal cable | - | original delivered cables MUST be used ! |

For further information and detailed documentation of the underlying 2D LCD display, please check the DELL website:

<https://www.dell.com/support/home/de/de/debsdt1/product-support/product/dell-up3218k-monitor/manuals>

9 MPV 3D Player configuration

If the display is used with 3D Global's MPV 3D Player, please use the configuration file with

config code

080