

## technical specifications

autostereoscopic 3D display demonstrator

# D125UHDL

Rev. 1.2 / 22.05.2019



## records of revision

revision	date	revised	note
1.0	2019-02-06	Sigwart	initial release
1.1	2019-04-26	Sigwart	several corrections & complements / final picture
1.2	2019-05-22	Sigwart	added #9 (config code)

## 1 General

The D125UHDL is a prototypic demonstrator device of an autostereoscopic 3D-Display in landscape format that 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:

- D125UHDLM05N070A-RAA

## 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 12,5" sized sample display. Since this device is a prototypical setup, no commercial certifications (such as CE) have been realized, thus the device is intended for demonstration purposes only and shall not be sold as a commercial product.

### 3 Display specifications

Parameter	Value	Unit	Note
display size	31,72 (12,5") diagonal	cm	-
active area	279,48 (H) x 155.52 (V)	mm	-
native pixel count	3840 (H) x 2160 (V)	pixel	UHD
native pixel alignment	1 pixel =R+G+B subpixel vertical stripe	-	-
front surface	anti-reflective (AR) protection glass	-	for model number <i>D125UHDLM05N070A-RAA</i>

### 4 Optical specifications

Parameter	Value (approx.)	Unit	Note
max. brightness	115 (typ.)	cd/m <sup>2</sup>	average of 5 points see note 4-1 see note 4-2
contrast ratio	1000:1 (typ.)	-	see note 4-1 see note 4-2
number of 3D views	5	-	for model number <i>D125UHDLM05N070A-RAA</i>
optimal 3D viewing distance	70	cm	for model number <i>D125UHDLM05N070A-RAA</i>
width of each 3D zone	approx. 32	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	8	bit	16,7 M 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	12V DC / 2A	-	external AC/DC Power-Supply provided
power consumption	15 (typ)	W	-
signal input	mini DP 2 x mini HDMI	-	-

## 6 Mechanical specifications

Parameter	Value (approx.)	Unit	Note
device outer dimensions	296 x 210 x 18	W x H x D (mm)	w/o cable w/o stand
device weight	950	gram	w/o cable w/o stand
wooden stand outer dimensions	296 x 115 x 20	L x W x H (mm)	display slot tilt by approx 30°
wooden stand weight	400	gram	-

## 7 Environment Specifications

Parameter	Value	Unit	Note
ambient temperature for storage	-25 - +60	°C	-
ambient temperature for operation	0 - +50	°C	-
ambient humidity	90% RH max. at Ta ≤ +40°C maximum wet-bulb temperature at +39°C or less at Ta ≥ +40°C: No condensation		

## 8 Miscellaneous

Parameter	Value (approx..)	Unit	Note
package outer dimensions	440 x 310 x 130	W x H x D (mm)	-
package weight	2,1	kg	-
delivered items	<ul style="list-style-type: none"> <li>• Display device</li> <li>• Wooden stand</li> <li>• AC/DC Power-Supply</li> <li>• Signal cable (DP - mini DP)</li> </ul>	-	-

## 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

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