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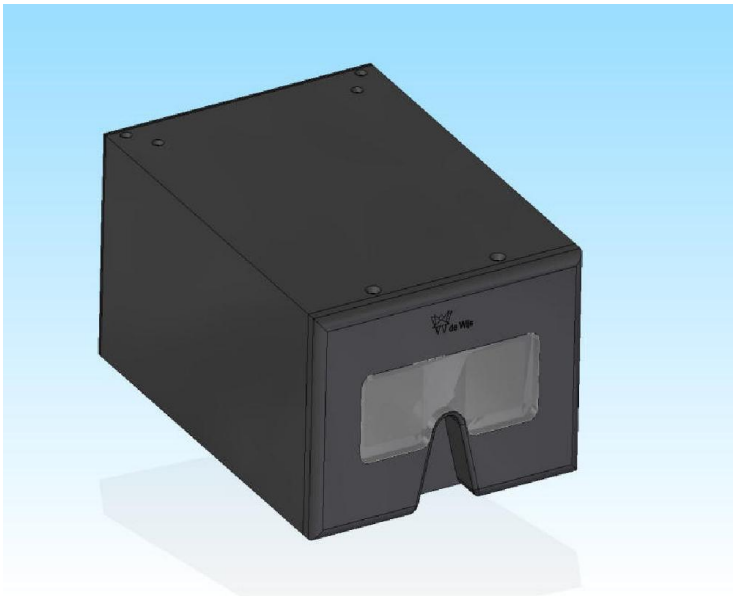
DE WIJS

Design and production of stereoscopic instruments.

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6084601,
Swiftcode: INGBNL2A
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K.v.K. Reg. Nº 23071201 Utrecht

User manual for:
Digital 3D viewer with 1 TFT panel
Model: 13-25-5.6



Contents

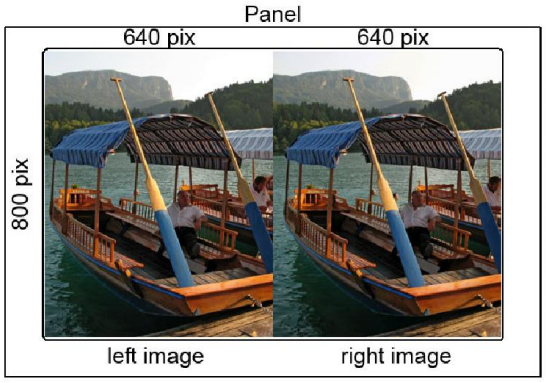
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Introduction

The digital 3D viewer single panel gives a lot of freedom for the content and technical designer to present a 3D photo or video presentation using the side-by-side parallel viewing 3D method.
This first series of de Wijs digital 3D viewing system is the answer for designers to easy exchange new and online 3D content on the internet to the audience. The medium amount of magnification of the lenses allows almost all visitors to view the 3D image clear and without optical problems.

1. First indications for operational use

- A 12V dc adapter should be enclosed with the viewer.
- By default the viewer is set to VGA input, you can change this with the buttons on the rear of the viewer to HDMI input.
- The resolution of the internal TFT panel is 1280x800 pixels. When connecting to a computer, the operating system might choose 1280x720 or even 1920x1080. This causes the image to be out of proportion / shape. Enhanced video cards allow to set custom resolutions to 1280x800.
- Do not loosen the 4 small screws close to the tripod hole. 2 of them are for the very accurate adjusted image splitter inside the viewer.
- You can remove the front aluminium lens carrier with 4 small screws. Prevent dust to enter the viewer when reassembling this front part.



2. Where do I place the viewer?

Obviously you already have chosen a spot for the viewer in your museum, exhibition or other public environment. Here are some considerations that might help you to check the spot;

- Keep in mind the height of the viewer. Children and grown-ups both want to look in the viewer!
- Depending on the popularity of the viewer, people might form a queue. This could cause congestion for the rest of the public.
- Watch out for sunlight coming through the lenses! The lenses will act like burn glasses on the panel. A few minutes in the sun will cause enough damage to the panel that it should be replaced.
- Avoid spotlights to be shinning on the lenses. The panel is not going to be burned but it does affect the quality of viewing.

3. Operation

To show stereoscopic content on the viewer; you can use any slide show or player software set to full screen on your source; laptop, desktop, media player or signage player.

- It assumed that your content is well prepared and compatible with your presentation software.
- 3D content on blue ray should be played in side by side and set to the un-squeezed proportion.
- The digital 3D viewer acts like a normal monitor and does not support any interactivity with the audience. For public environments, the source needs the option to allow the audience to start a presentation by means of a button or other input device.
- The viewer remembers the last state: on or off. So when power is turned off; the adapter is unplugged from its wall socket, and later inserted. The viewer will turn on immediately and does not need the ⏻ to be pressed on the rear.

4. Data

Specifications

- The 3D image is presented on one single display panel of 5.6", 1280x800 pixels. For each eye 640x800 pixels.
- Panel: HV056WX2-100, Pixel pitch: 0,0945x0,0945 mm.
- The 3D content should presented side by side parallel.
- Input through HDMI or VGA.
- Maximum input resolution: 1920x1080 pixels (HD).
- The viewer caries high quality coated glass lenses of 6 Dioptres (16,7 cm. focal distance) fixed focus. A small glass panel protects the lenses at the front side.
- Inter ocular distance, centre to centre, 64 mm. Image width 120 mm.
- The viewer measures: 15 cm. wide, 10 cm. high and 20,9 cm. length.
- The viewer can be mounted on a tripod.

5. Software

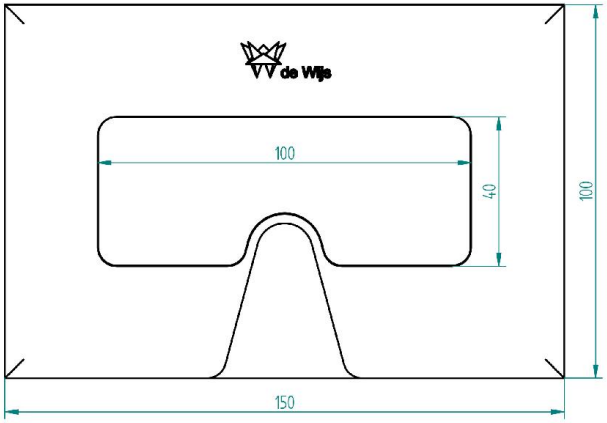
Presenting stereoscopic images you can use any slide show program with the images mounted side by side having the dimensions of 640x800 pixels for left and right eye. An easy solution for 3D editing and mounting and presenting stereoscopic images can be found on:
http://stereo.jpn.org/ you can search for Stereophotomaker.

For presenting stereoscopic video you can find solutions on http://stereo.jpn.org/ as well but there is also a good commercial solution on http://www.3dtv.at/ and a freeware cross platform solution can be found on www.bino.org

6. Dimensions on next page

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED

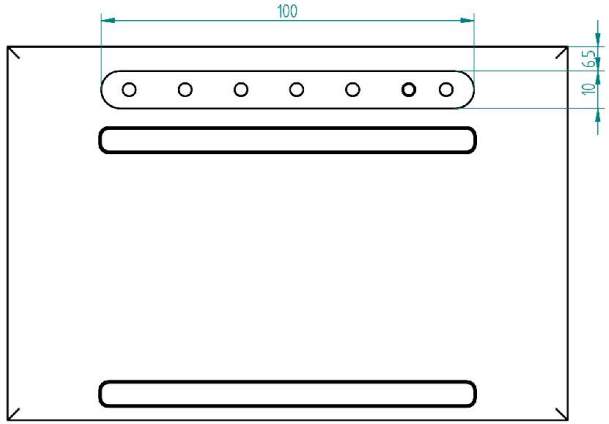
Front view

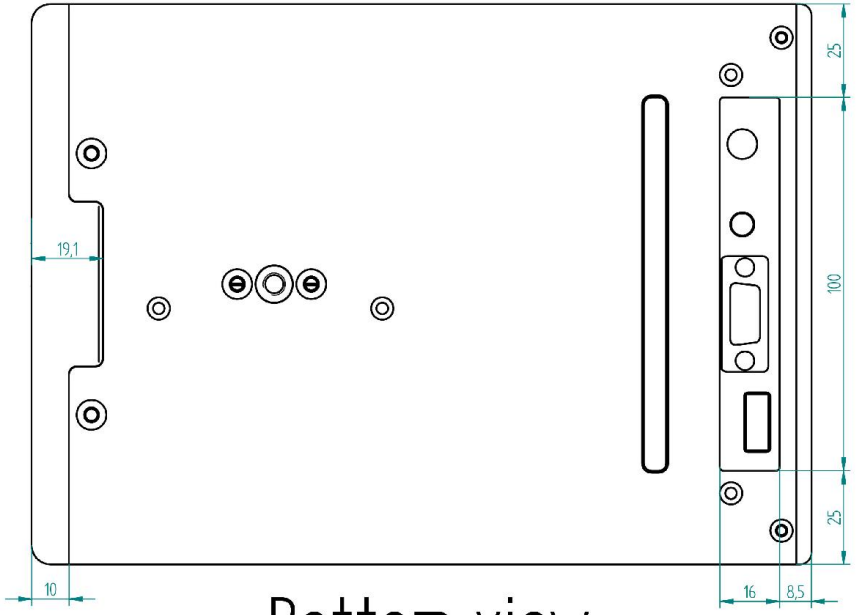


Right side view



Rear view





Bottom view

	NAME	DATE
DRAWN	Jeroen	03/27/13
CHECKED		
ENG APPR		
MGR APPR		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETERS
ANGLES ±0.1°
2 PL ±0.1 3 PL ±X.XXX

De Wijs apparatenbouw
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TITLE: 13-25-5.6 Build-in dimensions of the single panel digital 3D viewer

SIZE	DWG NO: 13-25-5.6 Build-in dimentions	REV
A2		

FILE NAME: 13-25-5.6 Build-in dimentions.dft

SCALE: 1:1	WEIGHT:	SHEET 1 OF 1