

dispelix

Selvä

EVALUATION UNIT



- First step to evaluate the Dispelix Selvä LED waveguides
- Designed for waveguide evaluation, not for use as XR glasses
- Connection to the computer via the HDMI port, the waveguides work as a second monitor
- The unit is easy to disassemble for further evaluation of the waveguides with your own settings

EVALUATION UNIT CONTAINS:

- A waveguide for the right eye
- A waveguide for the left eye
- Right and left projector with driver
- A binocular frame consisting of aluminum and plastic parts
- Adapters to adjust pantoscopic tilt
- Power and HDMI cables

TARGET VALUES

PARAMETER	TYPICAL	UNITS	COMMENT
Center wavelength	R: 625, G: 525, B: 455	nm	
Input pupil diameter	4	mm	
Image focus distance	infinity		
Field of view	30 40 50	degree	diagonal
Eye-relief	20 16 16	mm	
Eye-box	12.5 × 8 12 × 6 10 × 6	mm	4mm pupil target value
Brightness efficiency	310 160 90	nits / lumen	
MTF	16	lp / degree	40% contrast, white
Transmittance	82	%	

Available projectors options:

- DLP 720p 16:9 DFOV 40. For evaluating a diagonal field of view angle of 40 degrees or less.
- DLP 720p 16:9 DFOV 50. For evaluating a diagonal field of view angle of more than 40 degrees to 50 degrees.

Driver board connections:

- Micro-HDMI, an image source
- Micro-USB, a power source

Evaluation unit center to center eye-box interpupillary distance:

- 64mm

Maximum temple-to-temple width:

- Up to 160mm over the ears

Included documentation:

- Assembly/disassembly instructions
- Calibrator software
- 2D and 3D files the Selvä waveguides

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