

Q-Glasses

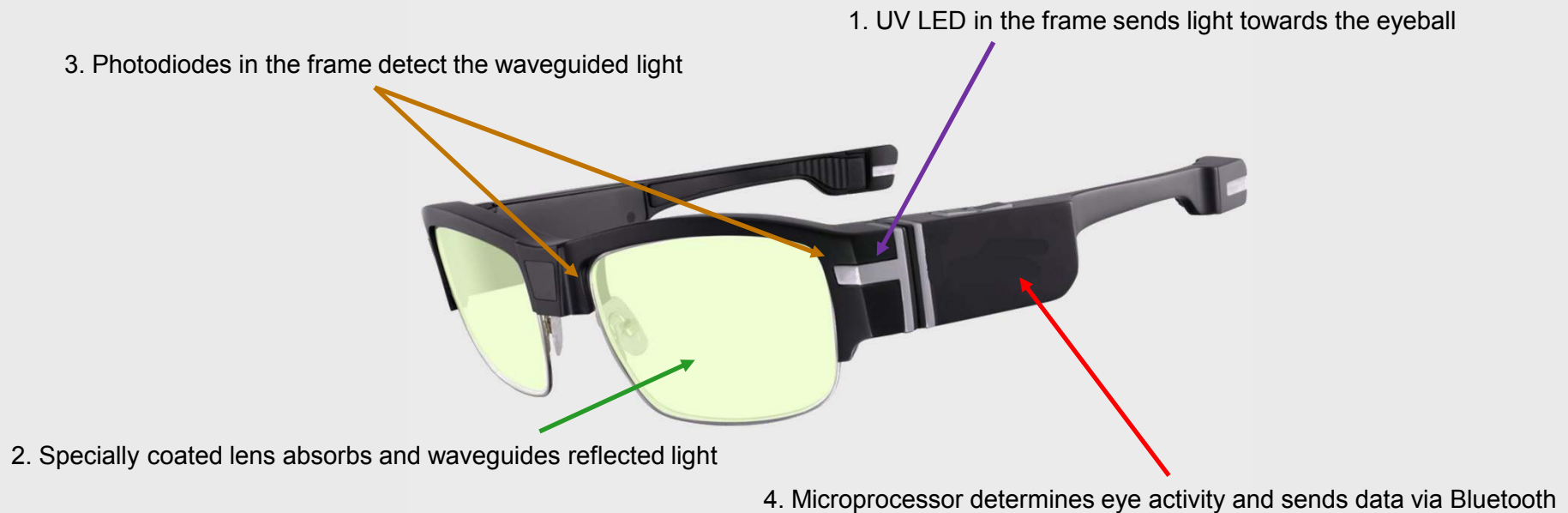
Ultra-fast eye activity detection



- Ultrafast detection of eyelid movement
- Real time tracking of eye movement
- Easily integrated in standard safety glasses
- Can be used with correcting lenses
- No adjustment for user face geometry necessary
- Very low weight and power consumption

Q-Glasses

Working principle



- UV light is reflected off the eyeball
- Specially coated lenses catch reflections
- Magnitude and spatial distribution of reflected light can be determined
- No adjustment necessary, reflected light is always detected
- Free field of view, also works with correcting and sunglass lenses
- Low weight and power consumption

Q-Glasses

Working principle



Eyelid closed -> low reflectivity, low photodiode signal

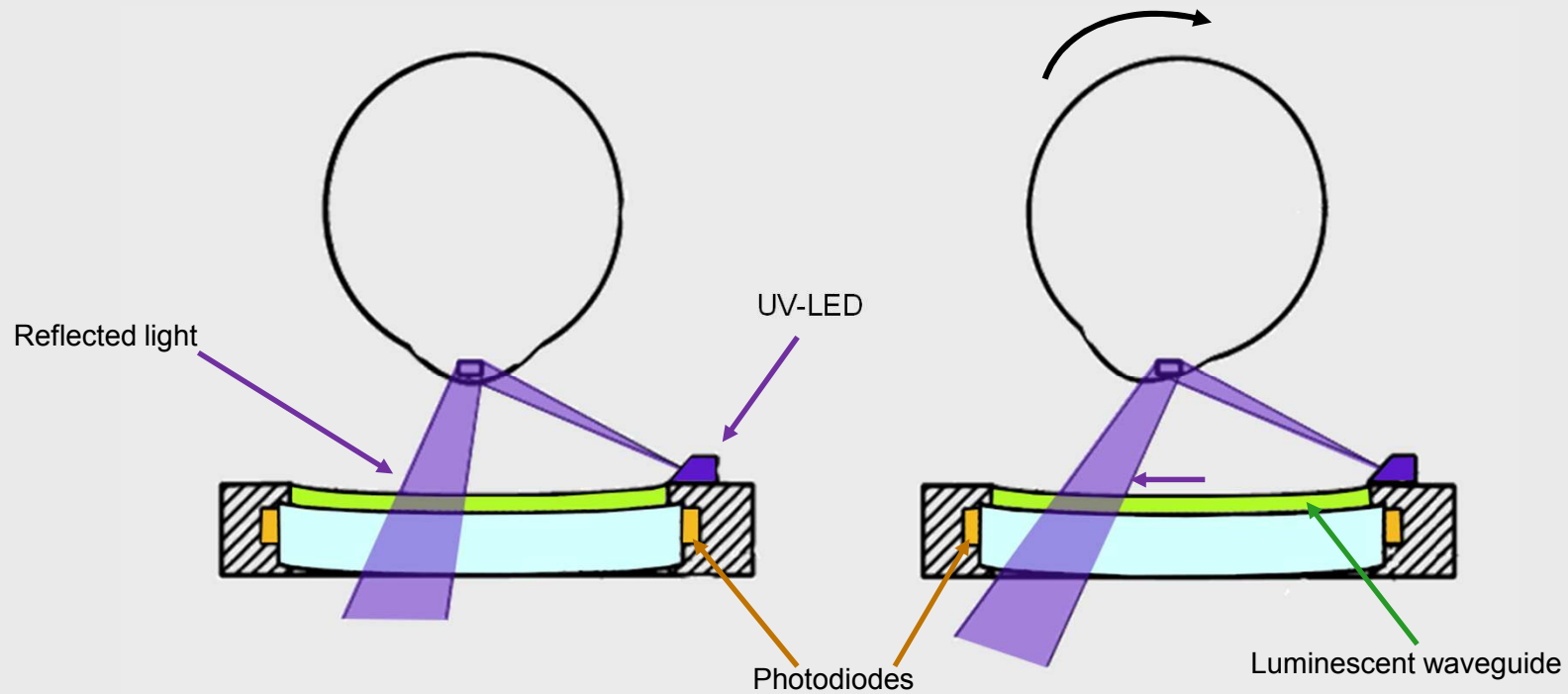


Eyelid open -> higher reflectivity, high photodiode signal

- Eyelid movement can be detected with more than 1kHz
- Fast, hands-free computer input method by blinking
- Detection of fatigue by measuring the blink frequency

Q-Glasses

Working principle



- When person moves their eyeball, the surface curvature changes
- Light of UV-Led is reflected in different direction
- Distribution of signals at different Photodiodes changes
- View direction can be determined

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Further Information



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