

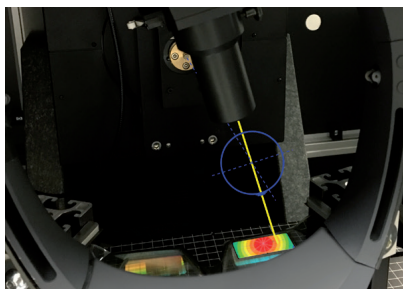
Explore the whole spectrum of AR/VR measurement!



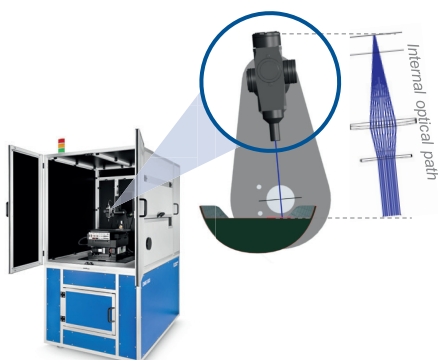
Challenges for head mounted display testing

- ▲ Sharpness and contrast
- ▲ Luminance and color uniformity
- ▲ Eye box and field of view
- ▲ Response time, latency and flicker
- ▲ Image distortion and chromatic aberrations

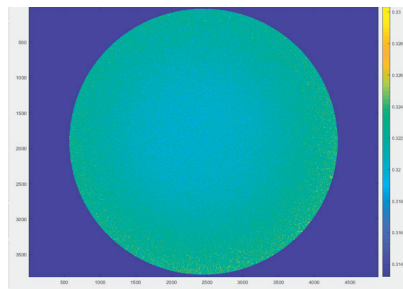
3D measurement of an HMD eyebox with collimated optics



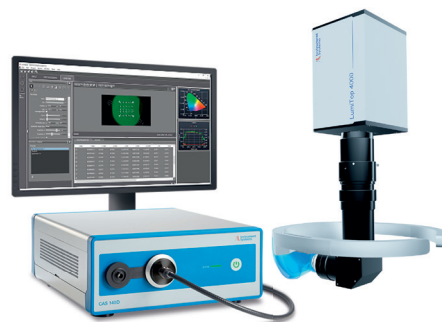
- » Custom optics to mimic human visual system
- » Angle dependent, goniometric measurement of luminance, color, contrast
- » Multitude of accessories to adapt the measurement to the human viewing process



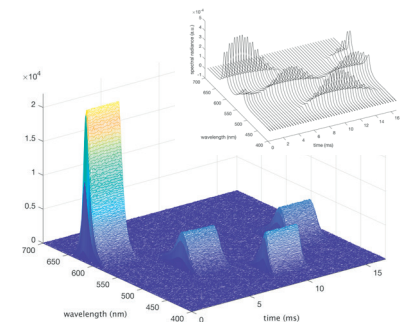
Fast and precise 2D measurement of near-eye displays



- » Measuring image sharpness, distortions, luminance and color
- » 2D imaging of the virtual image with human-like pupil
- » Adjustable focus distances and space-saving periscope lens
- » Fast one-shot spectrally enhanced solution



Time resolved measurements



- » Fast measurements possible with DMS goniometers and LumiTop 4000 / X150
- » PMT photodiode enables time resolved luminance measurements
- » CAS 140D features a minimum integration time of 4 ms and measures full spectral data
- » New CAS 125 high-speed spectrometer: Integration time down to 10 μ s

