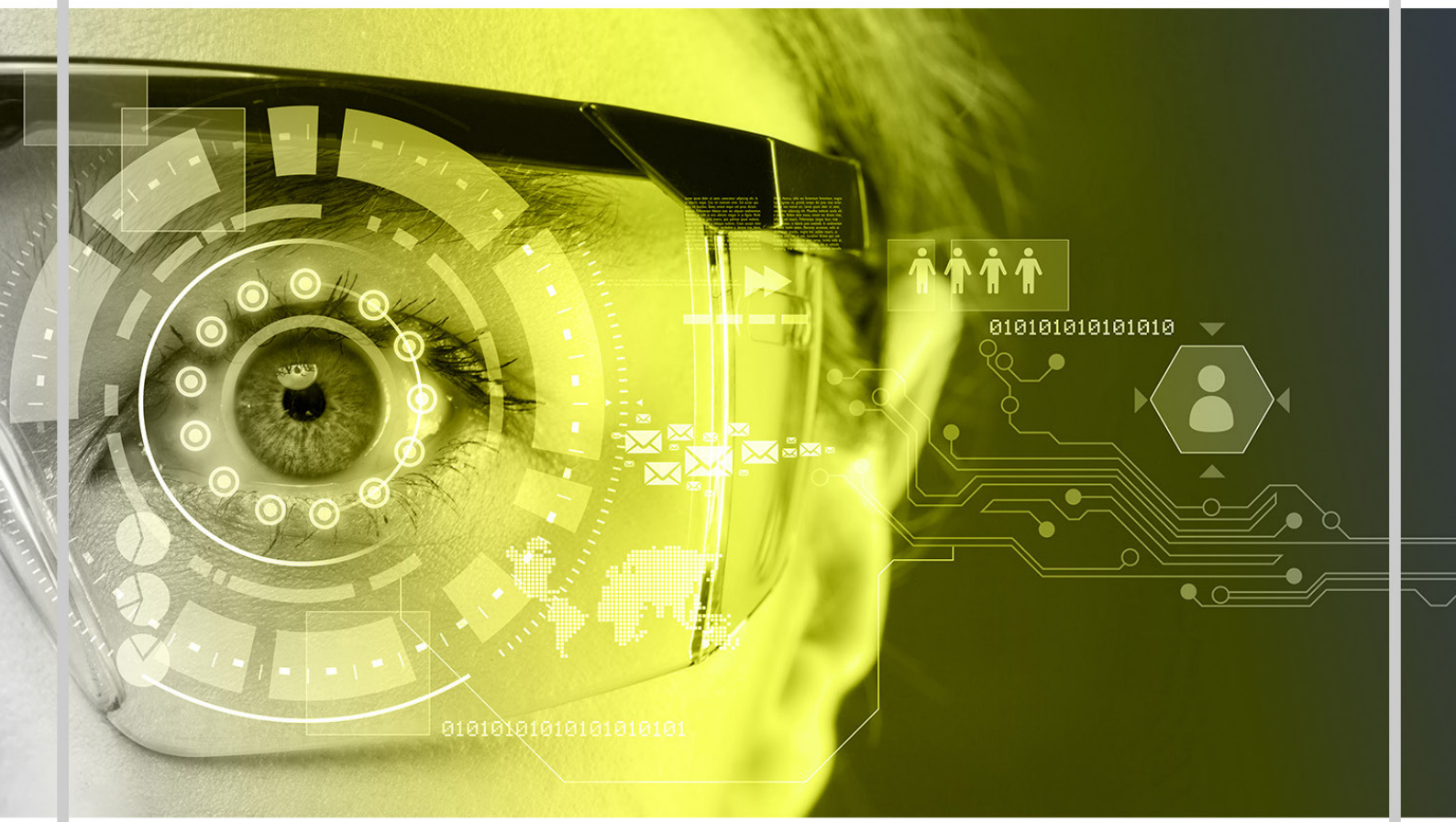
Averna

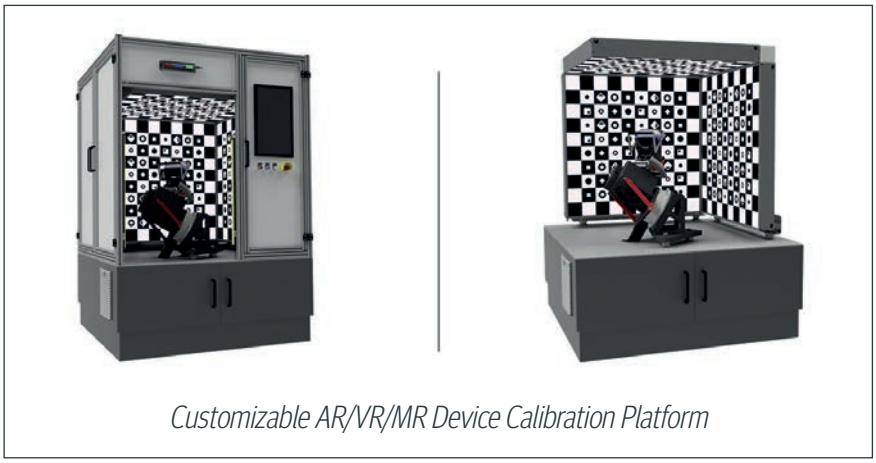
Virtual, Augmented and Mixed Reality
Calibration Platform



AR, VR and MR device calibration is critical for product performance. Leverage Averna's standardized alignment platform to efficiently calibrate **cameras and Inertial Measurement Unit (IMU) modules** with supreme accuracy. Easily customize or upgrade the base platform into the automated **quality solution** to best fit your manufacturing requirements.

SPECIFICATION SHEET / CALIBRATION PLATFORM

	IMU – Intrinsic/Extrinsic Camera Calibration Equipment
Motion degrees of freedom	up to 4 degrees of freedom
Number of axes	4 (3 rotational, 1 linear)
Angular range rotational axis	±360°
Angular speed	1000°/second
Angular accuracy	‹0,003°
Angular repeatability	‹0,0001°
Rotation wobble	‹1 arc sec
Motion profile	‹0,01° following error ‹0,01° setpoint position overshoot ‹0,1 sec in position after setpoint crossing ‹0,01° position interference between axes during motion
Gravity alignment	‹0,15°
Linear range main axis intersection	±10mm
Linear resolution	‹1µm
Gyroscope static vibration	‹±5 mrad /s
Accelerometer static vibration	‹±0.2 m /s²
Product interface	HDMI, USB-C, Ethernet, etc.
Target dimensions	1000x1000mm ‹0,3mm flatness ‹0,1mm feature position accuracy
Target light source	Visible LED light - ›90% uniformity IR LED light - ›90% uniformity
Loading / unloading	Manual by operator: 1 product per cycle
DUT & Carrier weight	Max 3000 gram
Ambient conditions	20°C±5°C ‹80% humidity
External data interfaces	MES, OPC UA (TSN), TCP-IP, PLC connectors



Customizable AR/VR/MR Device Calibration Platform

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