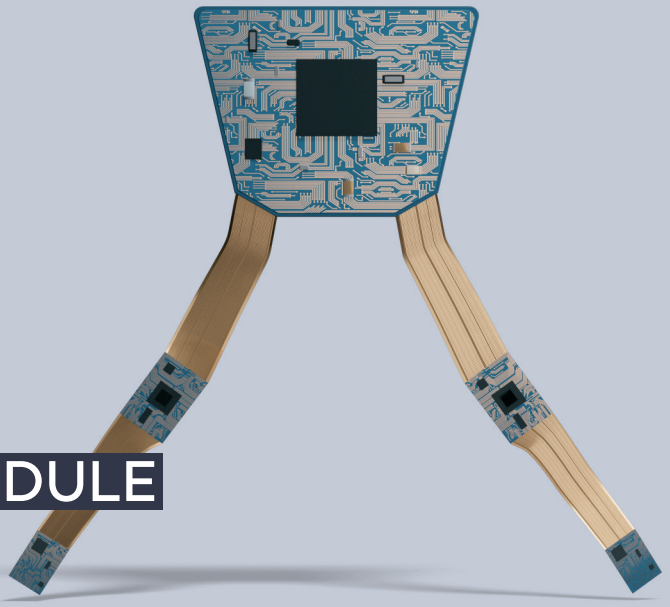
VIEW POINT SYSTEM

MAKING FUTURE REALITY



DIGITAL IRIS MODULE

INTEGRATION READY

EYE TRACKING ON THE EDGE FOR SMART GLASSES AND BEYOND

- READY-TO-EMBED EYE TRACKING MODULE WITH FULL SOFTWARE STACK
- MINIMAL FORM FACTOR FOR SPACE-CONSTRAINED DEVICES
- HIGH-PERFORMANCE EYE TRACKING RUNNING DIRECTLY ON AN ULTRA-LOW-POWER MCU
- PRIVACY BY DESING: EYE IMAGES NEVER LEAVE THE CHIP
- PROVEN ROBUSTNESS IN REAL-WORLD DEPLOYMENTS
- TYPICAL INTEGRATION TIME: ~2 WEEKS (STANDARD MODULE), ~2 MONTHS (CUSTOMIZED)

CUSTOMIZED CON-FIGURATION

HARDWARE

- **DIMENSIONS**

  LENGTH 37,6 mm
  WIDTH 46,0 mm
  HEIGHT 0,6 mm
  WEIGHT 0,4 grams (0.014 ounce)

- **CAMERA**
  2-cam architecture

- **SAMPLING RATE**
  Flexible up to 400 Hz, with 140 Hz as the standard setting

- **PROCESSOR**
  Image Signal Processor
  Edge AI Microcontroller with integrated NPU

- **CONNECTIVITY**
  Electrical interface (18 pin connector or USB connector)

- **POWER CONSUMPTION**
  < 220mW for module incl. processing and sensors

- **CONTROL/SENSORS**
  IR eye cams (B/W or color), up to 400×400px
  IR LEDs for ambient light independence
  Ambient light sensor, accelerometer, magnetometer

POWER EFFICIENT

SOFTWARE

- **EYE TRACKING TECHNOLOGY**
  Binocular dark pupil tracking (using neural networks), and eyeball modelling

- **EYE TRACKING FOV** 95° (diagonal)

- **PRECISION** 0.16°

- **DATA OUTPUT & PRIVACY**
  Only gaze data leave the module;
  eye-camera images are processed on-chip

- **CALIBRATION**
  Auto-calibration, one-point calibration, automatic slip compensation

- **ACCURACY**
  Uncalibrated 1.8°
  One-point calibration 1.2°

- **ADVANCED REAL-TIME DATA**
  Pupil diameter, eye position, gaze vectors, vergence, head motion, and event detection (e.g. fixations, saccades, blinks,..)

October 2026
Subject to technical changes and printing errors.