

Enabling a world of enhanced perception

Stijn Goossens

Qurv Technologies S.L., Castelldefels (Barcelona), Spain
stijn.goossens@qurv.tech

Qurv develops wide spectrum image sensors that capture previously hidden information. Either information that was hidden by ambient light interference or information that is not available in the visible light spectrum. More information allows improved decision making for machines.

The human eye only sees red, green and blue light. Ubiquitously available CMOS image sensors see visible and near infrared light up to 1 μm . Qurv image sensors based on nanomaterials are sensitive to visible, near infrared and short wave infrared light: from 300 nm up to 2 μm and in the near future beyond 2 μm .

Qurv's image sensor technology targets bringing enhanced computer vision applications to everyday life. The technology has a high manufacturability potential and can thus reach low cost products. Key to achieve high manufacturability is Qurv's waferscale back-end-of-line (BEOL) process. A proof of concept wide spectrum image sensor shows the validity of this BEOL process.

Qurv's wide spectrum image sensor BEOL process is CMOS technology agnostic. Furthermore, all Qurv image sensors will be designed for AI.