FACE RECOGNITION AND 3D IMAGING

Thin film production solutions for mass market consumer applications
FACE RECOGNITION & 3D IMAGING
Combining thin film process know how and control capabilities from the high precision optics industry with precise wafer handling and system automation technology from the semiconductor industry brings the perfect mass production solution for consumer applications.

OUR SMART DEVICES ARE GETTING EVEN SMARTER
Thin film manufacturing technologies for the cameras, proximity and ambient light sensor technologies in our smart phones are already well established. However, Face Recognition and 3D Imaging pose greater challenges for optical thin film technology due to their even higher film specifications, more demanding yield requirements and all at ever decreasing production costs.

THE THIN FILM PROCESS REQUIREMENTS ARE CHALLENGING
Typical bandpass filter with backside AR coating

Typical production requirements
1. Wafer in wafer uniformity performance on 8 inch substrates < ± 0.25%
2. Edge repeatability < ± 0.25%

CLUSTERLINE® RAD IS THE SOLUTION
Evatec’s CLUSTERLINE® RAD platform and process know how delivers the spectral accuracy and repeatabilities required for deposition of typical NIR bandpass filters for 6 and 8 inch substrates in a fully automated cassette to cassette production platform.

CLUSTERLINE® RAD KEY CAPABILITIES
- Rotating Cathode Sources
- Shaperless uniformity adjustment avoids particles
- PEM: Plasma Emission Monitoring
  Best stoichiometry for reactive processes at the highest rate
- GSM optical monitoring + re-optimization
  Outstanding thickness reproducibility and accuracy
- Automatic substrate loading
  Maximum tool usage, low operator interaction
- Automatic flip mechanism
  Seamless deposition of coatings on front and backside without vacuum break

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(Edition 1 first printed May 2016).