Dexerials corp. uses AI for detecting defects in real-time for film manufacturing

Challenge

- Real time detection of film defects was a manual error ridden process with low accuracy
- Product waste
- Frequent stoppage of production line led to lower volumes of product

Solution

- Deep Learning to process 100s of GB of videos and images (through transfer learning) and deployment via Compiler SDK

Results

- Automated fault detection algorithms deployed on production line with GUI for operators
- Design to deployment in 6 months

R2R Film production

Defects Classified

Scratches | Foreign Object | Unevenness

Deployed online on DCS