Acuros™ CQD™ SWIR Camera Applications Note

Machine Vision Inspection Through Opaque Plastic Packaging

a. Visible Image

b. SWIR Image

- Bag edge
- Zipper
- Vacuum seal
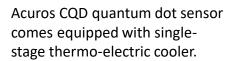
Acuros CQD 1280 SWIR Camera

1280 x1024, 1.3Mp resolution, 90 fps frame rate, 70 dB dynamic range, 15micron pixel pitch, 400-1700 nm spectral range, GigE Vision or USB3 Vision interface.

Acuros CQD quantum dot sensor comes equipped with single-stage thermo-electric cooler.

Application Details

Images of (a.) visible image and (b.) SWIR image of opaque plastic packaging. SWIR image reveals underlying structures to determine status of zipper and vacuum seal. Images captured via SWIR Vision Systems Acuros™ CQD™ 1280 SWIR Camera with TEC. Images captured at 10msec exposure time. Commercially available 1450nm SWIR LED cube backlight provided by Effilux [www.effilux.com/en/products/SWIR]