

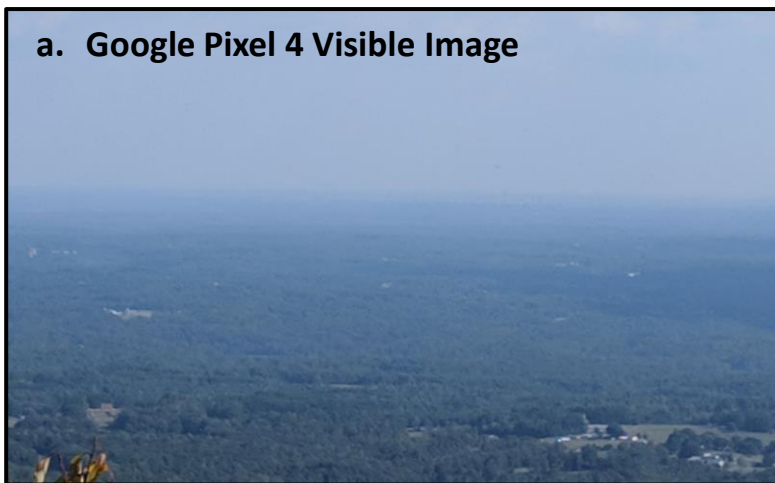


### Acuros<sup>®</sup> CQD<sup>®</sup> SWIR Camera Applications Note

SWIR Application Note - 005

#### Long Distance SWIR Imaging through Haze-Filled Sky

a. Google Pixel 4 Visible Image



b. Acuros 1920 CQD SWIR Camera image



#### Application Details:

SWIR image from Pilot Mountain NC overlook at 2000 ft elevation viewing downtown Winston Salem NC at a distance of 21 miles through summertime afternoon haze

(a.) Visible image taken with Google Pixel 4 Visible Image sensor

(b) SWIR images captured with Acuros CQD SWIR Camera

Images captured via SWIR Vision Systems Acuros<sup>®</sup> CQD<sup>®</sup> 1920 SWIR Camera with TEC and a 100 mm SWIR coated lens at ~5ms exposure time

**The Acuros<sup>®</sup> CQD<sup>®</sup> 1920 SWIR Camera** (at right) includes: 1920 x 1080, 2.1Mp resolution, 60 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.

