

5795 DE GASPE AVENUE, #222 MONTREAL, QUEBEC, H2S 2X3 CANADA

## ALIZÉ 1.7 INFRARED CAMERA



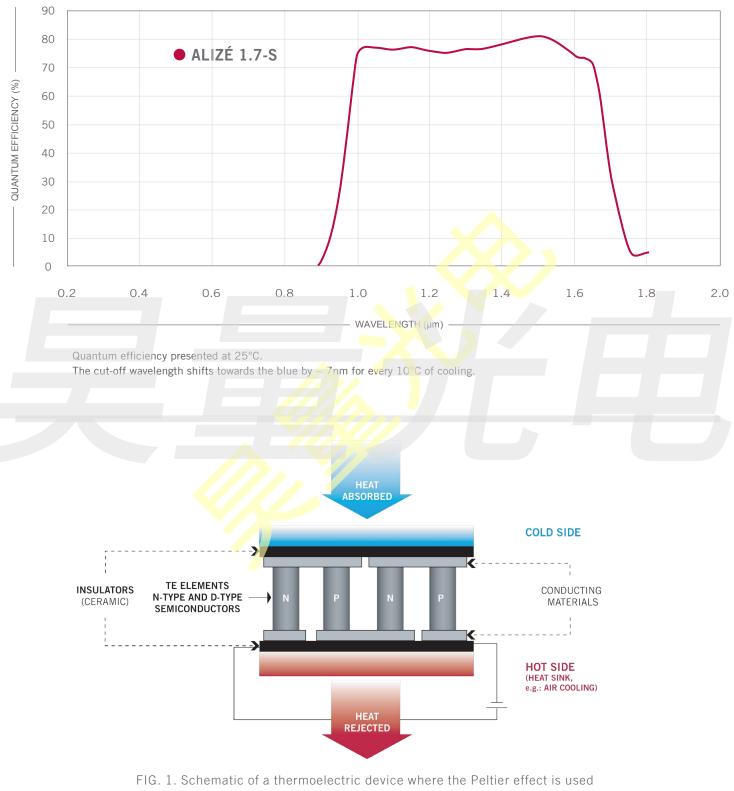
Continuing its push to extend the boundaries of scientific and industrial imaging, Photon etc. presents its high performance, quality for value, air-cooled SWIR camera line. Based on a sensitive InGaAs FPA and integrating a four-stage TE cooler, Alizé™ 1.7 delivers an astounding 190 frame-per-second rate while reaching very low noise levels. First designed for demanding faint-flux applications such as small animal imaging in the second biological window, these cameras also bring new capabilities for industrial applications in quality control and sorting.

| ECHNICAL SPECIFICATIONS         | ALIZÉ 1.7-S   |          |          |
|---------------------------------|---|----------|----------|
| Focal Plane Array (FPA)         | InGaAs  |          |          |
| FPA size                        | 640 x 512   |          |          |
| Pixel size                      | 15 μm   |          |          |
| Spectral range                  | <b>0.9 - 1.7 μm</b><br>(~0.9 - 1.65 μm @-50°C)                                      |          |          |
| Dark Current                    | < 600 ē/px/s<br>(To be measured soon with a target at<br>21°C and sensor at -50 °C) |          |          |
|                                 | High Gain   | Med Gain | Low Gain |
| Gain Setting (ē/ADU)            | 2.1   | 7.4      | 89       |
| Readout Noi <mark>se</mark> (ē) | -30   | 75       | 350      |
| Full Well Capacity              | 27 kē   | 110 kē   | 1.4 Mē   |
| Readout Modes                   | ITR, IWR, CDS, IMRO   |          |          |
| Digitization                    | 14 bits   |          |          |
| Full Frame Rate                 | 220   |          |          |
| Peak responsivity               | 1.0 A/W @ 1550 nm   |          |          |
| Quantum Efficiency              | > 75% from 1.0 to 1.6 µm  |          |          |
| Operability (typical)           | > 99%   |          |          |
| Integration Time Range          | 1 μs to 19 minutes (low gain)   |          |          |
| Cooling                         | TEC 4 stages, forced air  |          |          |
| PA Operating Temperature        | -50 °C  |          |          |
| Cool Down Time                  | < 10 minutes  |          |          |
| bient Temperature Range         | 10 °C to 30 °C  |          |          |
| Cold Shield                     | f#/1.4  |          |          |
| Software                        | PHySpec™ control and analysis software included                                     |          |          |
| Computer Interface              | CameraLink™ or USB 3.0  |          |          |
| External Control                | On demand   |          |          |
| ower Supply Requirement         | 12 VDC @ 5A   |          |          |
| Physical Dimensions             | 169 x 130 x 97.25 mm  |          |          |
| Weight                          | 2.6 kg  |          |          |
| Certification                   |   | CE       |          |

## MAIN ADVANTAGES OF TE COOLED AIR SYSTEM

- › Compact
- > Highly reliable
- → Long lifetime
- No maintenance
- Low dark current
- → Low readout noise





to generate heat flow between two materials.