## FEATURES / APPLICATIONS / CAPABILITIES

- Highest resolution performance over entire zoom range
- Compact \& Light weight design
- Rugged and robust built for harsh environmental conditions
- Focus is maintained throughout the entire zoom range, with fast zoom and focus response

- Available in serval versions to support multiple applications
-Available with different types of front Beam Expander (x1.5, x2, x2.5)

| PARAMETER | ODEM | ODEM/p | IRIS-P | NOTES |
| :---: | :---: | :---: | :---: | :---: |
| (O)OPTICAL |  |  |  |  |
| Focal Length | $15-330 \mathrm{~mm}$ | $18-320 \mathrm{~mm}$ | $18-330 \mathrm{~mm}$ | Nominal values. |
| F\# | 4.0 |  |  | F\# constant over zoom range |
| Cooled Detector - Size / <br> Cold Shield Height (CSH) | $\begin{gathered} 9.6 \times 7.68 \mathrm{~mm} / \\ 19-22 \mathrm{~mm} \end{gathered}$ | $\begin{gathered} 9.6 \times 7.68 \mathrm{~mm} \\ \quad / 14.5 \mathrm{~mm} \end{gathered}$ | $\begin{gathered} 9.6 \times 7.68 \mathrm{~mm} / \\ 19-22 \mathrm{~mm} \end{gathered}$ |  |
| Spectral Range | 3-5 $\mu$ |  |  |  |
| FOV (degrees) <br> Wide/ Narrow FOV: HxV | $\begin{gathered} 35.7^{\circ} \times 29^{\circ} \\ 1.7^{\circ} \times 1.4^{\circ} \end{gathered}$ | $\begin{aligned} & 29.8^{\circ} \times 24^{\circ} \\ & 1.7^{\circ} \times 1.4^{\circ} \end{aligned}$ | $\begin{gathered} 29.8^{\circ} \times 24.1^{\circ} \\ 1.7^{\circ} \times 1.4^{\circ} \end{gathered}$ |  |
| Optical Coatings |  |  |  |  |
| All internal surfaces | High efficiency AR coating |  |  | Average transmission: 90\% |
| Front surface | High durability AR coating |  |  | DLC is available upon |
| Optical Total lens track | 138 mm |  | 153 mm | Nominal |
| Optical Back Focal Length | $\sim 26 \mathrm{~mm}$ | 14.5 mm | $\sim 34 \mathrm{~mm}$ | Nominal |
| 哭: MECHANICAL |  |  |  |  |
| Mechanical BFL | $\sim 15 \mathrm{~mm}$ |  | $\sim 30 \mathrm{~mm}$ | Nominal for standard MICD. |
| Zoom mechanism | Motorized |  |  |  |
| Focus Range | 10m - Infinity |  | 5 m - Infinity |  |
| Total Weight | 850 grams | 830 grams | 900 grams | Nominal |
| External Dimensions <br> Diameter, Length | $96 \mathrm{~mm}, 123 \mathrm{~mm}$ |  | $96 \mathrm{~mm}, 128 \mathrm{~mm}$ |  |
| ? ELECTRICAL |  |  |  |  |
| Power Input | 12VDC, 1.0 A |  |  | Nominal |
| Communication Protocol | RS-422/232 Full Duplex |  |  | Baud rate 19,200, n, 8, 1 |
| T) ENVIRONMENTAL |  |  |  |  |
| Operating/Storage | $-30^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C} /-40^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |  |  |  |
| Shock and Vibrations | Per applicable standard |  |  |  |
| Front lens sealing | IP67 By request |  |  |  |

