



## Hammer II Series

### Intelligent Thermal Camera

# Lens Selection Table

| Model                                                                               |                         | H2S                                              | H3S                                              | H3+S                                             | H4S                                              | H6S                                              |
|-------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
|                                                                                     | IR Resolution           | 256×192                                          | 320×240                                          | 384×288                                          | 480×360                                          | 640×480                                          |
| Standard Lens                                                                       |                         |                                                  |                                                  |                                                  |                                                  |                                                  |
|   | Field of View           | 25°×19°                                          | 25°×19°                                          | 25°×19°                                          | 25°×19°                                          | 25°×19°                                          |
|                                                                                     | Focal Length            | 6.8mm                                            | 8.5mm                                            | 10.5mm                                           | 13mm                                             | 17.7mm                                           |
|                                                                                     | IFOV                    | 1.70mrad                                         | 1.36mrad                                         | 1.14mrad                                         | 0.91 mrad                                        | 0.68 mrad                                        |
|                                                                                     | Min. Object Distance    | 0.15m                                            | 0.15m                                            | 0.15m                                            | 0.15m                                            | 0.15m                                            |
|                                                                                     | D:S                     | 588:1                                            | 735:1                                            | 877:1                                            | 1099:1                                           | 1471:1                                           |
|                                                                                     | Temp. Measurement Range | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               |
| RangeMax Ultra-wide Measurement Range Lens Kit (Standard)                           |                         |                                                  |                                                  |                                                  |                                                  |                                                  |
|  | Field of View           | 25°×19°                                          | 25°×19°                                          | 25°×19°                                          | 25°×19°                                          | 25°×19°                                          |
|                                                                                     | Focal Length            | 6.8mm                                            | 8.5mm                                            | 10.5mm                                           | 13mm                                             | 17.7mm                                           |
|                                                                                     | IFOV                    | 1.70mrad                                         | 1.36mrad                                         | 1.14mrad                                         | 0.91 mrad                                        | 0.68 mrad                                        |
|                                                                                     | Min. Object Distance    | 0.15m                                            | 0.15m                                            | 0.15m                                            | 0.15m                                            | 0.15m                                            |
|                                                                                     | D:S                     | 588:1                                            | 735:1                                            | 877:1                                            | 1099:1                                           | 1471:1                                           |
|                                                                                     | Temp. Measurement Range | -40°C to 150°C, 0°C to 650°C, 500°C~2000°C, Auto | -40°C to 150°C, 0°C to 650°C, 500°C~2000°C, Auto | -40°C to 150°C, 0°C to 650°C, 500°C~2000°C, Auto | -40°C to 150°C, 0°C to 650°C, 500°C~2000°C, Auto | -40°C to 150°C, 0°C to 650°C, 500°C~2000°C, Auto |
| Medium Telephoto Lens                                                               |                         |                                                  |                                                  |                                                  |                                                  |                                                  |
|  | Field of View           | 15°×11°                                          | 15°×11°                                          | 15°×11°                                          | 15°×11°                                          | 15°×11°                                          |
|                                                                                     | Focal Length            | 11.7mm                                           | 14.6mm                                           | 17.7mm                                           | 21.7mm                                           | 29mm                                             |
|                                                                                     | IFOV                    | 1.02mrad                                         | 0.82mrad                                         | 0.68mrad                                         | 0.55mrad                                         | 0.41mrad                                         |
|                                                                                     | Min. Object Distance    | 1m                                               | 1m                                               | 1m                                               | 1m                                               | 1m                                               |
|                                                                                     | D:S                     | 980:1                                            | 1220:1                                           | 1471:1                                           | 1818:1                                           | 2439:1                                           |
|                                                                                     | Temp. Measurement Range | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               |
| RangeMax Ultra-wide Measurement Range Lens Kit (Medium Telephoto)                   |                         |                                                  |                                                  |                                                  |                                                  |                                                  |
|  | Field of View           | 15°×11°                                          | 15°×11°                                          | 15°×11°                                          | 15°×11°                                          | 15°×11°                                          |
|                                                                                     | Focal Length            | 11.7mm                                           | 14.6mm                                           | 17.7mm                                           | 21.7mm                                           | 29mm                                             |
|                                                                                     | IFOV                    | 1.02mrad                                         | 0.82mrad                                         | 0.68mrad                                         | 0.55mrad                                         | 0.41mrad                                         |
|                                                                                     | Min. Object Distance    | 1m                                               | 1m                                               | 1m                                               | 1m                                               | 1m                                               |
|                                                                                     | D:S                     | 980:1                                            | 1220:1                                           | 1471:1                                           | 1818:1                                           | 2439:1                                           |
|                                                                                     | Temp. Measurement Range | -40°C to 150°C, 0°C to 650°C, 500°C~2000°C, Auto | -40°C to 150°C, 0°C to 650°C, 500°C~2000°C, Auto | -40°C to 150°C, 0°C to 650°C, 500°C~2000°C, Auto | -40°C to 150°C, 0°C to 650°C, 500°C~2000°C, Auto | -40°C to 150°C, 0°C to 650°C, 500°C~2000°C, Auto |



# Thermal Camera

| Model                                                                               |                         | H2S                                              | H3S                                              | H3+S                                             | H4S                                              | H6S                                              |
|-------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
|                                                                                     | IR Resolution           | 256×192                                          | 320×240                                          | 384×288                                          | 480×360                                          | 640×480                                          |
| Telephoto Lens                                                                      |                         |                                                  |                                                  |                                                  |                                                  |                                                  |
|    | Field of View           | 7°×5°                                            | 7°×5°                                            | 7°×5°                                            | 7°×5°                                            | 7°×5°                                            |
|                                                                                     | Focal Length            | 25.1mm                                           | 31.4mm                                           | 37.5mm                                           | 47.1                                             | 62.9mm                                           |
|                                                                                     | IFOV                    | 0.48mrad                                         | 0.38mrad                                         | 0.32mrad                                         | 0.25mrad                                         | 0.19mrad                                         |
|                                                                                     | Min. Object Distance    | 3m                                               | 3m                                               | 3m                                               | 3m                                               | 3m                                               |
|                                                                                     | D:S                     | 2083:1                                           | 2631:1                                           | 3125:1                                           | 4000:1                                           | 5263:1                                           |
|                                                                                     | Temp. Measurement Range | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               |
| RangeMax Ultra-wide Measurement Range Lens Kit (Telephoto)                          |                         |                                                  |                                                  |                                                  |                                                  |                                                  |
|    | Field of View           | 7°×5°                                            | 7°×5°                                            | 7°×5°                                            | 7°×5°                                            | 7°×5°                                            |
|                                                                                     | Focal Length            | 25.1mm                                           | 31.4mm                                           | 37.5mm                                           | 47.1                                             | 62.9mm                                           |
|                                                                                     | IFOV                    | 0.48mrad                                         | 0.38mrad                                         | 0.32mrad                                         | 0.25mrad                                         | 0.19mrad                                         |
|                                                                                     | Min. Object Distance    | 3m                                               | 3m                                               | 3m                                               | 3m                                               | 3m                                               |
|                                                                                     | D:S                     | 2083:1                                           | 2631:1                                           | 3125:1                                           | 4000:1                                           | 5263:1                                           |
|                                                                                     | Temp. Measurement Range | -40°C to 150°C, 0°C to 650°C, 500°C~2000°C, Auto | -40°C to 150°C, 0°C to 650°C, 500°C~2000°C, Auto | -40°C to 150°C, 0°C to 650°C, 500°C~2000°C, Auto | -40°C to 150°C, 0°C to 650°C, 500°C~2000°C, Auto | -40°C to 150°C, 0°C to 650°C, 500°C~2000°C, Auto |
| Wide Angle Lens                                                                     |                         |                                                  |                                                  |                                                  |                                                  |                                                  |
|  | Field of View           | 44°×33°                                          | 44°×33°                                          | 44°×33°                                          | 44°×33°                                          | 44°×33°                                          |
|                                                                                     | Focal Length            | 4mm                                              | 5mm                                              | 6mm                                              | 7.5mm                                            | 10mm                                             |
|                                                                                     | IFOV                    | 3.00mrad                                         | 2.40mrad                                         | 2.00mrad                                         | 1.60mrad                                         | 1.20mrad                                         |
|                                                                                     | Min. Object Distance    | 0.1m                                             | 0.1m                                             | 0.1m                                             | 0.1m                                             | 0.1m                                             |
|                                                                                     | D:S                     | 333:1                                            | 417:1                                            | 500:1                                            | 625:1                                            | 833:1                                            |
|                                                                                     | Temp. Measurement Range | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               |
| TwinView DFOV Lens (Standard + Medium Telephoto)                                    |                         |                                                  |                                                  |                                                  |                                                  |                                                  |
|  | Field of View           | 25°×19°/15°×11°                                  | 25°×19°/15°×11°                                  | 25°×19°/15°×11°                                  | 25°×19°/15°×11°                                  | 25°×19°/15°×11°                                  |
|                                                                                     | Focal Length            | 6.9mm/11.6mm                                     | 8.6mm/14.5mm                                     | 10.6mm/17.4mm                                    | 12.7mm/21.7mm                                    | 17.7mm/29mm                                      |
|                                                                                     | IFOV                    | 1.70mrad/1.02mrad                                | 1.36mrad/0.82mrad                                | 1.14mrad/0.68mrad                                | 0.91mrad/0.55mrad                                | 0.68mrad/0.41mrad                                |
|                                                                                     | Min. Object Distance    | 0.15m/1m                                         | 0.15m/1m                                         | 0.15m/1m                                         | 0.15m/1m                                         | 0.15m/1m                                         |
|                                                                                     | D:S                     | 588:1/980:1                                      | 735:1/1220:1                                     | 877:1/1471:1                                     | 1099:1/1818:1                                    | 1471:1/2439:1                                    |
|                                                                                     | Temp. Measurement Range | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               |
| TwinView DFOV Lens (Standard + Wide Angle)                                          |                         |                                                  |                                                  |                                                  |                                                  |                                                  |
|  | Field of View           | 25°×19°/44°×33°                                  | 25°×19°/44°×33°                                  | 25°×19°/44°×33°                                  | 25°×19°/44°×33°                                  | 25°×19°/44°×33°                                  |
|                                                                                     | Focal Length            | 6.9mm/4mm                                        | 8.7mm/5mm                                        | 10.9mm/6.4mm                                     | 12.9mm/7.3mm                                     | 17.3mm/10.2mm                                    |
|                                                                                     | IFOV                    | 1.70mrad/3.00mrad                                | 1.36mrad/2.40mrad                                | 1.14mrad/2.00mrad                                | 0.91mrad/1.60mrad                                | 0.68mrad/1.20mrad                                |
|                                                                                     | Min. Object Distance    | 0.15m/0.1m                                       | 0.15m/0.1m                                       | 0.15m/0.1m                                       | 0.15m/0.15m                                      | 0.15m/0.15m                                      |
|                                                                                     | D:S                     | 588:1/333:1                                      | 735:1/417:1                                      | 877:1/500:1                                      | 1099:1/625:1                                     | 1471:1/833:1                                     |
|                                                                                     | Temp. Measurement Range | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               | -40°C to 150°C, 0°C to 650°C, Auto               |
| Macro Lens                                                                          |                         |                                                  |                                                  |                                                  |                                                  |                                                  |
|  | Field of View           | /                                                | /                                                | 14.5mm×10.9mm                                    | 24.2mm×18mm                                      | 24.2mm×18mm                                      |
|                                                                                     | Focal Length            |                                                  |                                                  | 17.9mm                                           | 13.4mm                                           | 17.9mm                                           |
|                                                                                     | IFOV                    |                                                  |                                                  | 37.8μm                                           | 50.4μm                                           | 37.8μm                                           |
|                                                                                     | Working Distance        |                                                  |                                                  | 50mm                                             | 50mm                                             | 50mm                                             |
|                                                                                     | Imaging Magnification   |                                                  |                                                  | 3×                                               | 3×                                               | 3×                                               |

\* Product performance is based on testing in a controlled laboratory environment. Your test results may vary due to several external and environmental factors.  
All specifications are subject to the actual product. The manufacturer reserves the right to modify technical specifications without notice or liability to you.