

**POMEAS 1.1" FA Lens Series:**  
20MP: PMS-25UC20M-H



**Product Introduction**

- ◆ High resolution.
- ◆ Multi layer coating, high transmittance, effective suppression of stray light.
- ◆ Compact structure, small shape, more suitable for integrated application.
- ◆ Lower distortion rate for more application requirements.

**Product Application**

Widely used in machine vision, production automation and other industries.

| PMS-25UC20M-H                                 |       | Product Parameter    |  |
|---|-------|----------------------|--|
| Model   |       | PMS-25UC20M-H        |  |
| Sensor Size                                   |       | 1.1"(17.6mm)         |  |
| Wavelength                                    |       | 420~1000nm           |  |
| Focal Length                                  |       | 25mm                 |  |
| Interface                                     |       | C-Mount              |  |
| Iris  |       | F2.8-F22             |  |
| FOV(Diagonal, Horizontal, Vertical)           | 1.1"  | 39.46°×31.56°×23.6°  |  |
|   | 1"    | 36.21°×29.08°×21.86° |  |
|   | 1/2"  | 18.45°×14.72°×11.08° |  |
|   | 1/3"  | 13.81°×11.08°×8.34°  |  |
| Object Size(At the closest focusing distance) | 1.1"  | 101.76×81.4×61.1mm   |  |
|   | 1"    | 92.4×73.3×54.6mm     |  |
|   | 1/2"  | 45.5×36.4×27.2mm     |  |
|   | 1/3"  | 34.2×27.3×20.5mm     |  |
| Back Focal Length (In Air)                    |       | 12.6mm               |  |
| Operation Mode                                | Focus | Manual               |  |
|   | Iris  | Manual               |  |
| Distortion                                    | 1.1"  | -0.59%@y=8.8mm       |  |
|   | 1"    | -0.49%@y=8.0mm       |  |
|   | 1/2"  | -0.12%@y=4.0mm       |  |
|   | 1/3"  | -0.06%@y=3.0mm       |  |
| Focus Range                                   |       | 0.15m~∞              |  |
| Filter Thread Diameter                        |       | M30.5×P0.5           |  |
| Weight  |       | 72.2g                |  |
| Working Temperature                           |       | -20°C~+60°C          |  |

| Working Distance | Magnification | FOV        |            |           |          |          |          |
|------------------|---------------|------------|------------|-----------|----------|----------|----------|
|                  |               | 1.1"       |            | 1"        |          | 2/3"     |          |
|                  |               | H(14.08mm) | V(10.56mm) | H(12.8mm) | V(9.6mm) | H(8.8mm) | V(6.6mm) |
| 150mm            | -0.17694X     | 81.07      | 60.80      | 73.701    | 55.276   | 50.669   | 38.002   |
| 200mm            | -0.13091X     | 109.72     | 82.29      | 99.747    | 74.810   | 68.576   | 51.432   |
| 250mm            | -0.10351X     | 138.35     | 103.77     | 125.776   | 94.332   | 86.471   | 64.853   |
| 300mm            | -0.08582X     | 166.97     | 125.23     | 151.794   | 113.845  | 104.358  | 78.269   |
| 350mm            | -0.07318X     | 195.59     | 146.69     | 177.808   | 133.356  | 122.243  | 91.682   |
| 400mm            | -0.06394X     | 224.20     | 168.15     | 203.818   | 152.863  | 140.125  | 105.093  |
| 450mm            | -0.05678X     | 252.81     | 189.60     | 229.824   | 172.368  | 158.004  | 118.503  |
| 500mm            | -0.05086X     | 281.48     | 211.11     | 255.894   | 191.921  | 175.927  | 131.946  |
| 550mm            | -0.04624X     | 310.02     | 232.51     | 281.832   | 211.374  | 193.760  | 145.320  |
| 600mm            | -0.04222X     | 338.62     | 253.96     | 307.835   | 230.876  | 211.637  | 158.728  |
| 750mm            | -0.03373X     | 424.42     | 318.32     | 385.838   | 289.379  | 265.264  | 198.948  |
| 1000mm           | -0.02522X     | 567.42     | 425.56     | 515.834   | 386.875  | 354.636  | 265.977  |

