



### GD0801C

### 1/1.8" F2.0 C Mount

|                              |  | Working distance |         | Optical Magnification | 1/1.8" Field of View (mm) |        |       |       |
|------------------------------|--|------------------|---------|-----------------------|---------------------------|--------|-------|-------|
|                              |  | mm               |         |                       | H                         | V      |       |       |
| Focal Length                 | f=8mm  |                  |         |                       |                           |        |       |       |
| F/NO                         | F=2.0-C  | 900              |         | 0.009X                | 792                       | 594    |       |       |
| Image Size                   | 1/1.8"(7.2x5.32mm) 1/2.5"(5.76x4.32mm) 1/3"(4.8x3.6mm) | 850              |         | 0.009X                | 749.3                     | 562    |       |       |
| Angle FOV                    | H  | 46.8°            | 38.2°   | 32.2°                 | 800                       | 0.010X | 705.7 | 529.2 |
|                              | V  | 36.0°            | 29.11°  | 24.5°                 | 750                       | 0.011X | 662   | 496.5 |
|                              | D  | 56.0°            | 47.7°   | 40.3°                 | 700                       | 0.011X | 618.4 | 463.8 |
| Object Dimension at WD.300mm | H  | 269.4mm          | 219.2mm | 186mm                 | 650                       | 0.012X | 574.2 | 430.7 |
|                              | V  | 202mm            | 164.2mm | 136.7mm               | 600                       | 0.013X | 531.2 | 398.3 |
|                              | D  | 336.7mm          | 274mm   | 232.5mm               | 550                       | 0.015X | 487.5 | 365.6 |
| Distortion (TV)              | <0.1%  | 500              |         | 0.016X                | 443.9                     | 332.9  |       |       |
| Focus distance(min)          | 0.1m   | 450              |         | 0.018X                | 400.3                     | 300.2  |       |       |
| Flange back                  | 17.526mm in air  | 400              |         | 0.020X                | 356.6                     | 267.5  |       |       |
| Back focus                   | 11.4mm in air  | 350              |         | 0.023X                | 313                       | 234.8  |       |       |
| Filter screw size            | M25.5xP0.5   | 300              |         | 0.026X                | 269.4                     | 202    |       |       |
| Front/Rear Effective Dia     | Front $\phi$ 20.1mm Rear $\phi$ 6mm                    | 250              |         | 0.032X                | 225.5                     | 169.1  |       |       |
| Mount                        | C-Mount  | 200              |         | 0.039X                | 182.2                     | 136.6  |       |       |
| Temperature Range            | -10~+50°C  | 150              |         | 0.052X                | 138.6                     | 103.9  |       |       |
| Sf T <sub>1</sub> -t P       | -°0 60°f   | 100              |         | 0.076X                | 95.2                      | 71.4   |       |       |