

# VFA1-118-5M75

75mm Focal Length

| 1/1.8" F2.8 C Mount          |   |                                |                      |                  | Working distance | Optical Magnification | 1/1.8" Field View(mm) |       |
|------------------------------|---|--------------------------------|----------------------|------------------|------------------|-----------------------|-----------------------|-------|
| Focal Length                 |   | f=75mm                         |                      |                  | mm               |                       | H                     | V     |
| F/NO                         |   | F=2.8-22                       |                      |                  | 6000             | 0.013X                | 553.8                 | 407.7 |
| Image Size                   |   | 1/1.8" (7.2*5.3mm)             | 1/2.5" (5.76*4.32mm) | 1/3" (4.8*3.6mm) | 5000             | 0.015X                | 480                   | 353.3 |
| Angle                        | H | 5.4                            | 4.4                  | 3.66             | 4000             | 0.019X                | 378.9                 | 278.9 |
|                              | V | 4.04                           | 3.3                  | 2.75             | 3000             | 0.026X                | 276.9                 | 203.8 |
|                              | D | 5.84                           | 5.4                  | 4.6              | 2000             | 0.039X                | 184.6                 | 135.6 |
| Object Dimension at WD.300mm | H | 40.4                           | 32.34                | 26.96            | 1500             | 0.053X                | 135.8                 | 100   |
|                              | V | 29.8                           | 24.26                | 20.22            | 1000             | 0.081X                | 88.9                  | 65.4  |
|                              | D | 50.2                           | 40.4                 | 33.7             | 950              | 0.086X                | 83.7                  | 61.6  |
| Distortion                   |   | <0.05%                         |                      |                  | 900              | 0.091X                | 79.1                  | 58.2  |
| Focus distance               |   | 500mm                          |                      |                  | 850              | 0.097X                | 74.2                  | 54.6  |
| Flange back                  |   | 17.526mm in air                |                      |                  | 800              | 0.104X                | 69.2                  | 51    |
| Back focus                   |   | 42.2-55.5mm in air             |                      |                  | 750              | 0.112X                | 64.3                  | 47.3  |
| Filter screw size            |   | 无                              |                      |                  | 700              | 0.121X                | 59.5                  | 43.8  |
| Front/Rear Effective Dia     |   | Front Φ 24mm    Rear   Φ14.5mm |                      |                  | 650              | 0.131X                | 55                    | 40.5  |
| Mount                        |   | C-Mount                        |                      |                  | 600              | 0.144X                | 50                    | 36.5  |
| Temperature Range            |   | -10~+50° C                     |                      |                  | 550              | 0.159X                | 45.3                  | 33.3  |
| Storage Temperature Range    |   | -20~+60° C                     |                      |                  | 500              | 0.178X                | 44.3                  | 29.8  |

