

# VFA1-230-10M12

12mm Focal Length

| 2/3" F2.8/12 C Mount        |                  |                  |                  | Working distance | Optical Magnification | 2/3" Field of View(mm) |        |       |
|-----------------------------|------------------|------------------|------------------|------------------|-----------------------|------------------------|--------|-------|
| Focal Length                | f=12mm           |                  |                  | mm               | (X)                   | H                      | V      |       |
| Max Diameter(RATIO)         | F=1:2.8~16       |                  |                  | 5000             | 0.002X                | 3641.7                 | 2731.7 |       |
| Picture Size                | 2/3" (8.8*6.6mm) | 1/2" (6.4*4.8mm) | 1/3" (4.8*3.6mm) | 2000             | 0.006X                | 1462                   | 1096.5 |       |
| Angle                       | H                | 39.8°            | 29.5°            | 22.3°            | 1000                  | 0.012X                 | 735.4  | 551.5 |
|                             | V                | 30.4°            | 22.3°            | 16.8°            | 900                   | 0.013X                 | 662.7  | 497   |
|                             | D                | 48.5°            | 36.4°            | 27.7°            | 800                   | 0.015X                 | 590    | 442.5 |
| Object Dimension at M. O. D | H                | 153.8mm          | 111.9mm          | 83.8mm           | 700                   | 0.017X                 | 517.4  | 388   |
|                             | V                | 115.4mm          | 83.8mm           | 62.7mm           | 600                   | 0.02X                  | 444.7  | 306.3 |
|                             | D                | 193.3mm          | 140.2mm          | 104.8mm          | 550                   | 0.022X                 | 408.4  | 306.3 |
| Distortion(TV)              | <0.2%            | <0.1%            | <0.03%           | 500              | 0.024X                | 372                    | 379    |       |
| Focus distance(min)         | 0.1M             |                  |                  | 450              | 0.026X                | 335.7                  | 251.8  |       |
| Flange back                 | 17.526mm in air  |                  |                  | 400              | 0.029X                | 299.3                  | 224.5  |       |
| Back focus                  | 13.8mm           |                  |                  | 350              | 0.033X                | 263                    | 197.2  |       |
| Filter screw size           | M27x0.5          |                  |                  | 300              | 0.039X                | 226.6                  | 170    |       |
| Front/Rear Effective Dia    | Φ17.7mm/Φ8.65mm  |                  |                  | 250              | 0.046X                | 190.2                  | 142.7  |       |
| Mount                       | C-Mount          |                  |                  | 200              | 0.057X                | 153.8                  | 115.4  |       |
| Temperature Range           | -10~+50° C       |                  |                  | 150              | 0.075X                | 117.4                  | 88     |       |
| Storage Temperature Range   | -20~+60° C       |                  |                  | 100              | 0.109X                | 80.7                   | 60.3   |       |

