

## Telecentric Lens

DTTL Series Telecentric Lens

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**Model No:**

67.6mm Chip Support



DTTL Series

## 67.6mm Chip Support

Target camera



Professional customization multiples and depth of field

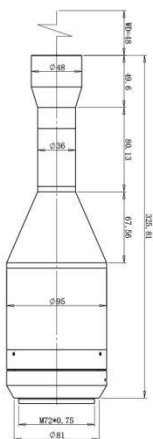
Dual telecentric design  
High definition Standard M72 interface

Can be equipped with a dedicated parallel light

For high-precision detection and measurement

| Lens Model      | Mag    | WD  | DOF  | Telecen  | Optical    | Aperture | Mtf>0.3 | Mount | IMX411       | Linescan-16k |
|-----------------|--------|-----|------|----------|------------|----------|---------|-------|--------------|--------------|
|                 |        |     | mm   | -tricity | distortion | F/#      | (lp/mm) |       | (53.42*40)MM | 57.4mm       |
| DTTL48-2X67     | 2.0X   | 48  | 0.3  | <0.1     | <0.1       | 15       | 54      | M72   | 26.7*20      | 22.9         |
| DTTL100-1.6X67  | 1.6X   | 100 | 0.7  | <0.1     | <0.1       | 23       | 36      | M72   | 33.4*25      | 25.2         |
| DTTL96-1.4X67   | 1.47X  | 96  | 0.7  | <0.1     | <0.1       | 17       | 48      | M72   | 36.3*27      | 32.2         |
| DTTL105-1.35X67 | 1.35X  | 105 | 0.8  | <0.1     | <0.1       | 18       | 50      | M72   | 39.6*29.6    | 35           |
| DTTL90-1.1X67   | 1.1X   | 90  | 0.9  | <0.1     | <0.1       | 13       | 56      | M72   | 48.6*36.4    | 39.2         |
| DTTL145-09X67   | 0.9X   | 145 | 1.8  | <0.1     | <0.1       | 18       | 50      | M72   | 59.4*44.4    | 41           |
| DTTL160-0845X67 | 0.845  | 160 | 2.2  | <0.1     | <0.1       | 19       | 40      | M72   | 63.2*47.3    | 44.8         |
| DTTL130-072X67  | 0.72X  | 130 | 2.5  | <0.1     | <0.1       | 16       | 58      | M72   | 74.2*55.6    | 49           |
| DTTL180-062X67  | 0.62X  | 180 | 3.0  | <0.1     | <0.1       | 14       | 60      | M72   | 86.2*64.5    | 57.3         |
| DTTL210-0497X67 | 0.497X | 210 | 4.4  | <0.1     | <0.1       | 13       | 62      | M72   | 107.5*80.5   | 59.1         |
| DTTL300-045X67  | 0.45X  | 300 | 7.1  | <0.1     | <0.1       | 17       | 48      | M72   | 118.7*88.9   | 65.9         |
| DTTL295-0356X67 | 0.356X | 295 | 5.8  | <0.1     | <0.1       | 9        | 90      | M72   | 150.1*112.4  | 76.5         |
| DTTL305-0313X67 | 0.313X | 305 | 10.1 | <0.1     | <0.1       | 12       | 64      | M72   | 170.7*127.8  | 95.6         |
| DTTL370-0282X67 | 0.282X | 370 | 10.5 | <0.1     | <0.1       | 10       | 70      | M72   | 189.4*141.8  | 108.2        |

### DTTL48-2X67



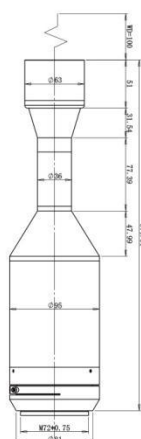
### Main parameters

|                    |      |
|--------------------|------|
| Mag                | 2.0X |
| WD                 | 48   |
| DOF(mm)            | 0.3  |
| Telecentricity     | <0.1 |
| Optical distortion | <0.1 |
| Aperture(F/#)      | 15   |
| MTF>0.3(lp/mm)     | 54   |
| Mount              | M72  |

### Field of view

|                        |         |
|------------------------|---------|
| IMX411<br>(53.42*40)mm | 26.7°20 |
| Linescan-16K<br>57.4mm | 28.70   |

### DTTL100-1.6X67



### Main parameters

|                    |      |
|--------------------|------|
| Mag                | 1.6X |
| WD                 | 100  |
| DOF(mm)            | 0.7  |
| Telecentricity     | <0.1 |
| Optical distortion | <0.1 |
| Aperture(F/#)      | 23   |
| MTF>0.3(lp/mm)     | 36   |
| Mount              | M72  |

### Field of view

|                        |         |
|------------------------|---------|
| IMX411<br>(53.42*40)mm | 33.4°25 |
| Linescan-16K<br>57.4mm | 35.88   |

### DTTL96-1.47X67



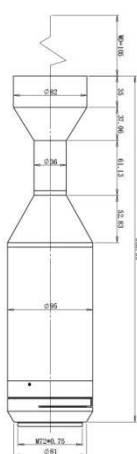
### Main parameters

|                    |       |
|--------------------|-------|
| Mag                | 1.47X |
| WD                 | 96    |
| DOF(mm)            | 0.7   |
| Telecentricity     | <0.1  |
| Optical distortion | <0.1  |
| Aperture(F/#)      | 17    |
| MTF>0.3(lp/mm)     | 48    |
| Mount              | M72   |

### Field of view

|                        |           |
|------------------------|-----------|
| IMX411<br>(53.42*40)mm | 36.3°27.2 |
| Linescan-16K<br>57.4mm | 39.05     |

### DTTL05-1.35X67



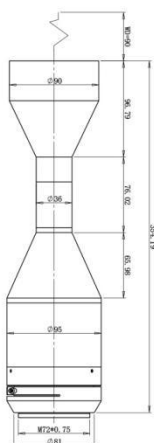
### Main parameters

|                    |       |
|--------------------|-------|
| Mag                | 1.35X |
| WD                 | 105   |
| DOF(mm)            | 0.8   |
| Telecentricity     | <0.1  |
| Optical distortion | <0.1  |
| Aperture(F/#)      | 18    |
| MTF>0.3(lp/mm)     | 50    |
| Mount              | M72   |

### Field of view

|                        |           |
|------------------------|-----------|
| IMX411<br>(53.42*40)mm | 39.6°29.6 |
| Linescan-16K<br>57.4mm | 42.52     |

### DTTL90-1.1X67



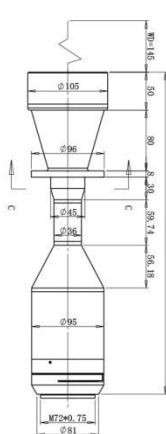
### Main parameters

|                    |      |
|--------------------|------|
| Mag                | 1.1X |
| WD                 | 90   |
| DOF(mm)            | 0.9  |
| Telecentricity     | <0.1 |
| Optical distortion | <0.1 |
| Aperture(F/#)      | 13   |
| MTF>0.3(lp/mm)     | 56   |
| Mount              | M72  |

### Field of view

|                        |           |
|------------------------|-----------|
| IMX411<br>(53.42*40)mm | 48.6°36.4 |
| Linescan-16K<br>57.4mm | 52.18     |

### DTTL45-09X67



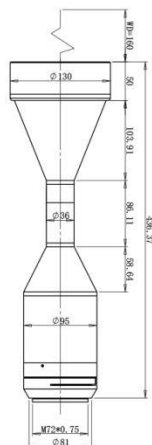
### Main parameters

|                    |      |
|--------------------|------|
| Mag                | 0.9X |
| WD                 | 145  |
| DOF(mm)            | 1.8  |
| Telecentricity     | <0.1 |
| Optical distortion | <0.1 |
| Aperture(F/#)      | 18   |
| MTF>0.3(lp/mm)     | 50   |
| Mount              | M72  |

### Field of view

|                        |           |
|------------------------|-----------|
| IMX411<br>(53.42*40)mm | 59.4°44.4 |
| Linescan-16K<br>57.4mm | 63.78     |

### DTTL160-0845X67



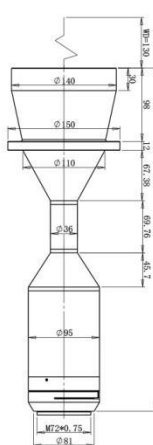
### Main parameters

|                    |        |
|--------------------|--------|
| Mag                | 0.845X |
| WD                 | 160    |
| DOF(mm)            | 2.2    |
| Telecentricity     | <0.1   |
| Optical distortion | <0.1   |
| Aperture(F/#)      | 19     |
| MTF>0.3(lp/mm)     | 40     |
| Mount              | M72    |

### Field of view

|                        |           |
|------------------------|-----------|
| IMX411<br>(53.42*40)mm | 63.2*47.3 |
| Linescan-16K<br>57.4mm | 67.93     |

### DTTL130-072X67



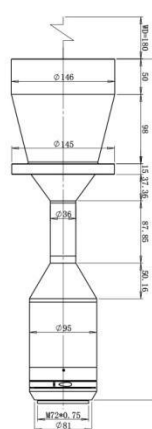
### Main parameters

|                    |       |
|--------------------|-------|
| Mag                | 0.72X |
| WD                 | 130   |
| DOF(mm)            | 2.5   |
| Telecentricity     | <0.1  |
| Optical distortion | <0.1  |
| Aperture(F/#)      | 16    |
| MTF>0.3(lp/mm)     | 58    |
| Mount              | M72   |

### Field of view

|                        |           |
|------------------------|-----------|
| IMX411<br>(53.42*40)mm | 74.2*55.6 |
| Linescan-16K<br>57.4mm | 79.72     |

### DTTL180-062X67



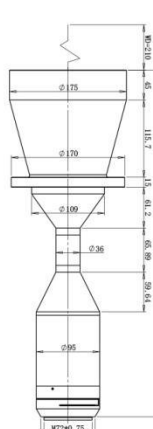
### Main parameters

|                    |       |
|--------------------|-------|
| Mag                | 0.62X |
| WD                 | 180   |
| DOF(mm)            | 3.0   |
| Telecentricity     | <0.1  |
| Optical distortion | <0.1  |
| Aperture(F/#)      | 14    |
| MTF>0.3(lp/mm)     | 60    |
| Mount              | M72   |

### Field of view

|                        |           |
|------------------------|-----------|
| IMX411<br>(53.42*40)mm | 86.2*64.5 |
| Linescan-16K<br>57.4mm | 92.58     |

### DTTL210-0497X67



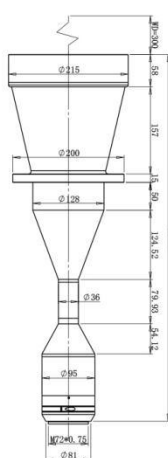
### Main parameters

|                    |        |
|--------------------|--------|
| Mag                | 0.497X |
| WD                 | 210    |
| DOF(mm)            | 4.4    |
| Telecentricity     | <0.1   |
| Optical distortion | <0.1   |
| Aperture(F/#)      | 13     |
| MTF>0.3(lp/mm)     | 62     |
| Mount              | M72    |

### Field of view

|                        |            |
|------------------------|------------|
| IMX411<br>(53.42*40)mm | 107.5*80.5 |
| Linescan-16K<br>57.4mm | 115.49     |

### DTTL300-045X67



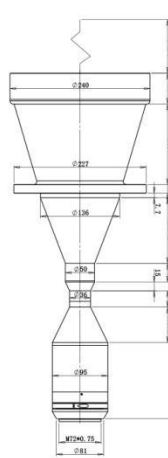
### Main parameters

|                    |       |
|--------------------|-------|
| Mag                | 0.45X |
| WD                 | 300   |
| DOF(mm)            | 7.1   |
| Telecentricity     | <0.1  |
| Optical distortion | <0.1  |
| Aperture(F/#)      | 17    |
| MTF>0.3(lp/mm)     | 48    |
| Mount              | M72   |

### Field of view

|                        |            |
|------------------------|------------|
| IMX411<br>(53.42*40)mm | 118.7*88.9 |
| Linescan-16K<br>57.4mm | 127.56     |

### DTTL295-0356X67



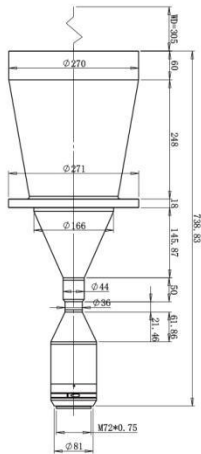
### Main parameters

|                    |        |
|--------------------|--------|
| Mag                | 0.356X |
| WD                 | 295    |
| DOF(mm)            | 5.8    |
| Telecentricity     | <0.1   |
| Optical distortion | <0.1   |
| Aperture(F/#)      | 9      |
| MTF>0.3(lp/mm)     | 90     |
| Mount              | M72    |

### Field of view

|                        |             |
|------------------------|-------------|
| IMX411<br>(53.42*40)mm | 150.1*112.4 |
| Linescan-16K<br>57.4mm | 161.24      |

### DTTL305-0313X67



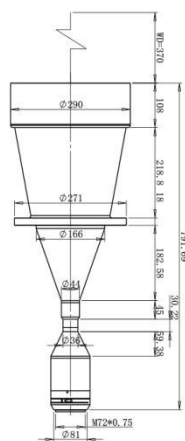
### Main parameters

|                    |        |
|--------------------|--------|
| Mag                | 0.313X |
| WD                 | 305    |
| DOF(mm)            | 10.1   |
| Telecentricity     | <0.1   |
| Optical distortion | <0.1   |
| Aperture(F/#)      | 12     |
| MTF>0.3(lp/mm)     | 64     |
| Mount              | M72    |

### Field of view

|              |             |
|--------------|-------------|
| IMX411       | 170.7*127.8 |
| (53.42*40)mm |             |
| Linescan-16K | 183.39      |
| 57.4mm       |             |

### DTTL370-0282X67



### Main parameters

|                    |        |
|--------------------|--------|
| Mag                | 0.282X |
| WD                 | 370    |
| DOF(mm)            | 10.5   |
| Telecentricity     | <0.1   |
| Optical distortion | <0.1   |
| Aperture(F/#)      | 10     |
| MTF>0.3(lp/mm)     | 70     |
| Mount              | M72    |

### Field of view

|              |             |
|--------------|-------------|
| IMX411       | 189.4*141.8 |
| (53.42*40)mm |             |
| Linescan-16K | 203.55      |
| 57.4mm       |             |