

| Produkt Name                                                                 |                                                                                  | Product Name | HF16HA-1S            |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------|----------------------|
| Brennweite [mm]<br>(Designwert)                                              | Focal length [mm]<br>(design value)                                              |              | 16<br>(16.49)        |
| Blende (F-Nummer)                                                            | Iris range (Fnumber)                                                             |              | F1.4-F16             |
| Bildwinkel                                                                   | Angle of view                                                                    |              | 30.5° × 22.9° (2/3") |
| Arbeitsabstand (von der Vorderseite des Objektivtubus) [mm]                  | Working distance (from front of lens barrel) [mm]                                |              | ∞ - 100mm            |
| Fokuseinstellung                                                             | Operation of focus                                                               |              | Manual               |
| Blendensteuerung                                                             | Operation of iris                                                                |              | Manual               |
| Filtergewinde [mm]                                                           | Filter thread [mm]                                                               |              | M25.5 × 0.5          |
| Anschluss                                                                    | Mount                                                                            |              | C-mount              |
| Gewicht (ca.) [g]                                                            | Weight (approx.) [g]                                                             |              | 40                   |
| Sensorgroße (standard)                                                       | Sensor size (std.)                                                               |              | 2/3" (6.2μm)         |
| Sensorgroße (maximal)                                                        | Sensor size (max.)                                                               |              | 2/3" (6.2μm)         |
| Hintere Brennweite (in Luft) [mm]                                            | Back focal length (in air) [mm]                                                  |              | 15.15                |
| Auflagemaß [mm]                                                              | Flange back [mm]                                                                 |              | 17.526               |
| Eintrittspupillenposition (vom Anschluss) [mm]                               | Entrance pupil position (from Mount) [mm]                                        |              | -3.92                |
| Austrittspupillenposition (vom Bildsensor) [mm]                              | Exit pupil position (from image plane) [mm]                                      |              | -30.95               |
| Vordere Hauptpunktposition (vom Anschluss) [mm]                              | Front principal point (from Mount) [mm]                                          |              | 3.05                 |
| Hintere Hauptpunktposition (vom Anschluss) [mm]                              | Rear principal point (from Mount) [mm]                                           |              | 1.03                 |
| Abstand zwischen den Hauptpunkten [mm]                                       | Distance between the principal points [mm]                                       |              | -2.02                |
| TV-Verzerrung [%]                                                            | TV distortion [%]                                                                |              | -0.87                |
| Abmessungen [mm]                                                             | Dimension [mm]                                                                   |              | φ29.5 × 29.5         |
| Hauptstrahlwinkel [°]                                                        | Chief Ray Angle [°]                                                              |              | 9.71                 |
| Relative Beleuchtung [%]<br>(Blende: F4.0, Bildhöhe: diagonal)               | Relative illumination [%]<br>(Aperture: F4.0, Image height: at diagonal)         |              | 82                   |
| Relative Beleuchtung [%]<br>(Blende: bei voller Öffnung, Bildhöhe: diagonal) | Relative illumination [%]<br>(Aperture: at full open, Image height: at diagonal) |              | 36                   |
| Betriebstemperaturbereich                                                    | Operation Temperature Range                                                      |              | -10°C ~ +50°C        |
| Lagertemperaturbereich                                                       | Storage Temperature Range                                                        |              | -30°C ~ +60°C        |

\*Die Definition des Arbeitsabstands wurde in einen Bereich geändert, in dem eine Fokuseinstellung möglich ist. (März 2020) Diese Spezifikationen können ohne vorherige Ankündigung geändert werden.

05. March 2020

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|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| 型番                       | Product Name                                                                     | HF16HA-1S            |
|--------------------------|----------------------------------------------------------------------------------|----------------------|
| 焦点距離 [mm]                | Focal length [mm]<br>(design value)                                              | 16<br>(16.49)        |
| 絞り (F値)                  | Iris range (Fnumber)                                                             | F1.4-F16             |
| 画角 (H × V)               | Angle of view                                                                    | 30.5° × 22.9° (2/3") |
| フォーカス範囲 (レンズメカ先端より) [mm] | Working distance (from front of lens barrel) [mm]                                | ∞ - 100mm            |
| 操作方法:フォーカス               | Operation of focus                                                               | Manual               |
| 操作方法:アイリス                | Operation of iris                                                                | Manual               |
| フィルタ径 [mm]               | Filter thread [mm]                                                               | M25.5 × 0.5          |
| マウント                     | Mount                                                                            | C-mount              |
| 質量 (約) [g]               | Weight (approx.) [g]                                                             | 40                   |
| 適合センサーサイズ (標準)           | Sensor size (std.)                                                               | 2/3" (6.2μm)         |
| 適合センサーサイズ (最大)           | Sensor size (max.)                                                               | 2/3" (6.2μm)         |
| バックフォーカス (空気換算長) [mm]    | Back focal length (in air) [mm]                                                  | 15.15                |
| フランジバック [mm]             | Flange back [mm]                                                                 | 17.526               |
| 入射瞳位置 (マウント面から) [mm]     | Entrance pupil position (from Mount) [mm]                                        | -3.92                |
| 射出瞳位置 (結像面より) [mm]       | Exit pupil position (from image plane) [mm]                                      | -30.95               |
| 前側主点 (マウント面から) [mm]      | Front principal point (from Mount) [mm]                                          | 3.05                 |
| 後側主点 (マウント面から) [mm]      | Rear principal point (from Mount) [mm]                                           | 1.03                 |
| 主点間隔 [mm]                | Distance between the principal points [mm]                                       | -2.02                |
| TVディストーション [%]           | TV distortion [%]                                                                | -0.87                |
| 外形寸法 [mm]                | Dimension [mm]                                                                   | φ29.5 × 29.5         |
| 主光線入射角度 [°]              | Chief Ray Angle [°]                                                              | 9.71                 |
| 周辺光量比 (F4.0・対角端) [%]     | Relative illumination [%]<br>(Aperture: F4.0, Image height: at diagonal)         | 82                   |
| 周辺光量比 (開放・対角端) [%]       | Relative illumination [%]<br>(Aperture: at full open, Image height: at diagonal) | 36                   |
| 使用温度範囲                   | Operation Temperature Range                                                      | -10°C ~ +50°C        |
| 保存温度範囲                   | Storage Temperature Range                                                        | -30°C ~ +60°C        |

\*Changed the definition of working distance to a range where focus adjustment is possible. (Mar. 2020) These specifications are subject to change without notice.

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