

Produkt Name		Product Name	HF9HA-1S
Brennweite [mm] (Designwert)	Focal length [mm] (design value)		9 (9.23)
Blende (F-Nummer)	Iris range (Fnumber)		F1.4-F16
Bildwinkel	Angle of view		53.3° × 40.5° (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]		M27 × 0.5
Anschluss	Mount		C-mount
Gewicht (ca.) [g]	Weight (approx.) [g]		50
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]		13.48
Auflagemaß [mm]	Flange back [mm]		17.526
Eintrittspupillenposition (vom Anschluss) [mm]	Entrance pupil position (from Mount) [mm]		-18.45
Austrittspupillenposition (vom Bildsensor) [mm]	Exit pupil position (from image plane) [mm]		-28.33
Vordere Hauptpunktposition (vom Anschluss) [mm]	Front principal point (from Mount) [mm]		-12.91
Hintere Hauptpunktposition (vom Anschluss) [mm]	Rear principal point (from Mount) [mm]		8.30
Abstand zwischen den Hauptpunkten [mm]	Distance between the principal points [mm]		21.21
TV-Verzerrung [%]	TV distortion [%]		-2.00
Abmessungen [mm]	Dimension [mm]		φ29.5 × 35.0
Hauptstrahlwinkel [°]	Chief Ray Angle [°]		10.65
Relative Beleuchtung [%] (Blende: F4.0, Bildhöhe: diagonal)	Relative illumination [%] (Aperture: F4.0, Image height: at diagonal)		73
Relative Beleuchtung [%] (Blende: bei voller Öffnung, Bildhöhe: diagonal)	Relative illumination [%] (Aperture: at full open, Image height: at diagonal)		32
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	HF9HA-1S
焦点距離 [mm]	Focal length [mm] (design value)	9 (9.23)
絞り (F値)	Iris range (Fnumber)	F1.4-F16
画角 (H × V)	Angle of view	53.3° × 40.5° (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]	M27 × 0.5
マウント	Mount	C-mount
質量 (約) [g]	Weight (approx.) [g]	50
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]	13.48
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]	-18.45
射出瞳位置 (結像面より) [mm]	Exit pupil position (from image plane) [mm]	-28.33
前側主点 (マウント面から) [mm]	Front principal point (from Mount) [mm]	-12.91
後側主点 (マウント面から) [mm]	Rear principal point (from Mount) [mm]	8.30
主点間隔 [mm]	Distance between the principal points [mm]	21.21
TVディストーション [%]	TV distortion [%]	-2.00
外形寸法 [mm]	Dimension [mm]	φ29.5 × 35.0
主光線入射角度 [°]	Chief Ray Angle [°]	10.65
周辺光量比 (F4.0・対角端) [%]	Relative illumination [%] (Aperture: F4.0, Image height: at diagonal)	73
周辺光量比 (開放・対角端) [%]	Relative illumination [%] (Aperture: at full open, Image height: at diagonal)	32
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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