# Xenon-RUBY Lens



### Xenon-RUBY 2.3/35

The Xenon-Ruby lens is optimized in accordance with the sensitivity of modern image sensors up to  $1 / 1.8^{\circ}$  (9mm). This lens is the perfect trade-off between price and performance: By having a practice-oriented speed of 2.3, a very high optical performance is achieved.

Even under production and / or extreme conditions, the robust mechanical design with lockable focus and iris setting mechanism guarantees reliable continuous use in which the set optical parameters remain in place.

XENON-R 2.3/35-0002

ß

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### **Key Features**

- Robust mechanics for rough industrial environment
- Compact design and low weight
- · Focus and iris setting lockable
- High resolution optics
- Transmission 400 1000 nm (VIS NIR)
- Designed for Sensors up to 1 / 1.8" (9mm)

#### Applications

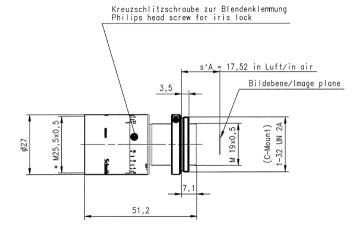
- Traffic
- Security/Surveillance
- · Machine vision and other imaging applications
- · Quality control
- Surface inspection
- 2D / 3D Measurement

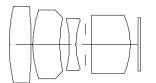
#### **Technical Specifications**

F-stop range	2.3 - 16
Focal length	34.84 mm
Image circle	9 mm
Transmission	400 - 1000 nm
Interface	C-Mount
Filter Thread	M25.5 x 0.5
Weight	55 gr.
Code No.	1074627

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Schneider Kreuznach

f'	=	34,8	mm	ß,	=	0.903	i i
sF	=	-11.0	mm	s <sub>EP</sub>	=	27.6	mm
s,,	=	22.0	mm	s,	=	-9.5	mm
HH'	=	-1.3	mm	Σd	=	35,3	m m

### 100 [ %] 80 Rel. Illumination 60 40 20 $\uparrow$ 40 60 100 20 80 $\rightarrow$ u7u<sub>max</sub> ∗100 [%] 2 1 1 Distortion L o 0 -2 $\uparrow$ 20 100 40 60 80 u≁u<sub>max</sub> \*100 [%] <u></u> 100 [ % ] 80 Transmittance 60 40 20 $\uparrow$ 300 400 500 700 1000 Wavelength [nm] $\rightarrow$

# RELATIVE ILLUMINATION

2.3/35

XR

The relativ illumination is shown for the given focal distances or magnifications,

	f / 2.4	f / 4.0	f / 5.6
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 ß'= -0.0200	u <sub>max</sub> = 4.5	00'= 1811.
 ß'= −0.0500	u <b>,</b> = 4.5	00'= 767.
 ß'= −0.1000	u <b>*</b> a× =4₊5	00'= 420,

# DISTORTION

Distortion is shown for the given focal distances or magnifications. Positive values indicate pincushion distortion and negative values barrel distortion.

ß' = −0.0200	u <b>*</b> ax =4.5	00*=	1811.
— — ß'= −0.0500	u <b>,</b> ax = 4.5	00'=	767.
B' = -0.1000	u <sub>max</sub> = 4.5	00*=	420.

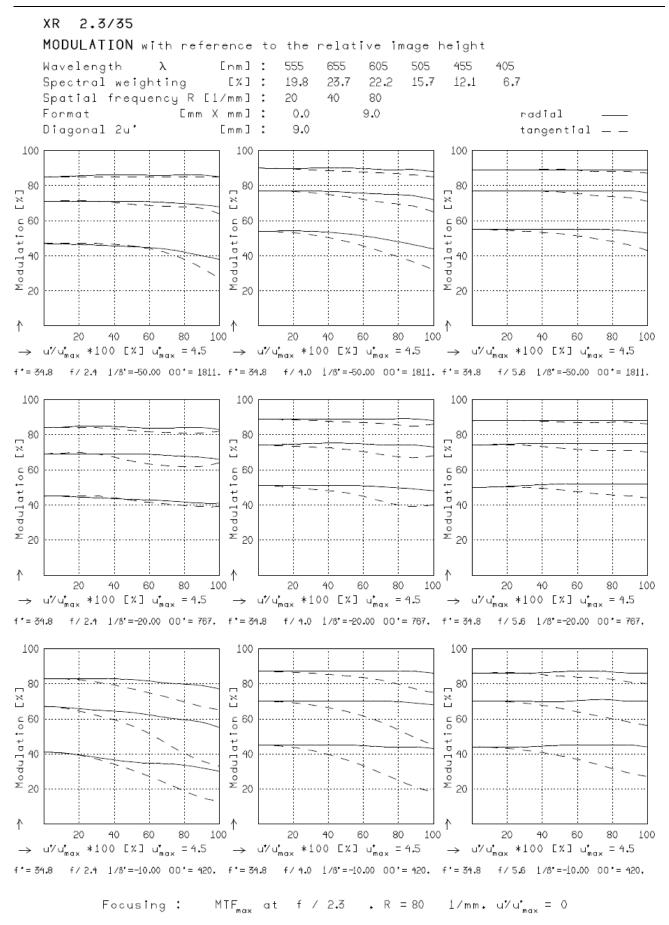
## TRANSMITTANCE

Relative spectral transmittance is shown with reference to wavelength.

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