J A D E

The new machine vision standard for up to 1.2".

JADE 2.8/12 C

JADE 2.8/16 C

JADE 2.8/50 C

JADE 2.8/25 C

JADE 2.8/35 C

Schneider
K R E U Z N A C H

| JADE 2.8/12 | JADE 2.8/16 | JADE 2.8/25 | JADE 2.8/35 | JADE 2.8/50 |

High performance for sensors up to 2"

Key Features:

- 1.2" (19.3 mm) max. sensor size
- Very high resolution down to 2.4µ pixel size
- Low chief ray angle suitable for all SONY Pregius™ generations
- C-Mount lens
- 5 focal lengths: 12 mm - 50 mm
- Initial aperture: F2.8

Suitable Sensors (Selection):

- SONY IMX 530/531/540/541 (Pregius S™ 4th Gen.)
- SONY IMX183 (Pregius™ 3rd Gen.)
- SONY IMX 253/255/267/304/305 (Pregius™ 2nd Gen.)
- Gpixel GMAX0505/2518
- Teledyne Emerald 12M/16M
- CMOSIS CMV4000, CSG14K
- On Semi XGS 16000/12000

Typical applications:

- Machine Vision
- AOI (Automated Optical Inspection)
- 3D and 2D measurement
- Robotic Vision
- Surface Inspection

Main markets:

- Industry
- Automotive
- Medical
- Traffic
- Security

Parameter	Value
Focal length	12, 16, 25, 35, 50 mm
f/#	2.8
Image circle	19.3 mm
Sensor size	up to 1.2"
Pixel size	down to 2.4 µm
Chief ray angle (CRA)	< 10°
Size (length from mount x diam.)	< 55 mm x 50 mm
Available Mounts	C-Mount
Weight	< 170 g
Coating	400–1000 nm

Feature	Benefit
Optimized for WD 250-1500 mm	First choice for typical MV applications
Good performance also at larger WD	Usable also in traffic, surveillance
Compact design	Fits into small spaces
High resolution down to pixel size of 2.4 µm	Suitable for high resolution sensors
Low vignetting and high resolution from f/2.8	Fully usable at low light
High transmission from 400 to 1000 nm	Suitable for VIS as well as NIR applications
Optimized for sensors with micro lenses	Compatible with Sony Pregius™ 2nd Gen.
Robust mechanical design	Stable image position and long-term durability

Other mounts and optimization for specific working distances available on request. Also stabilized or ruggedized versions of the lenses.