

Factory Automation Lens Options

AND9837/D

INTRODUCTION

The following application note includes a list of lenses that are suitable for the listed image sensors from **onsemi**. Table 1 is a list of lenses that have been tested by **onsemi**. Table 2 is a list of lenses (or lens series) that, according to the characteristics, will work with the product, but haven't been directly tested by **onsemi**. Table 3 contains contact details of the lens producers or distributors of the models mentioned in Tables 1 and 2. This information is provided as a general guide line for lens use in a general Factory Automation application; we recommend the user to perform his own evaluation to determine which lens is suitable for the application.

LENS LIST

Image sensors: XGS 12000, XGS 9400 and XGS 8000, Optical format 1'

Table 1. TESTED LENSES

Lens Maker	Part Number	Link
FUJIFILM	CF8ZA-1S	https://www.fujifilm.com/us/en/business/optical-devices/machine-vision-lens/cf-za-1s-series#anc01
	CF16ZA-1S	https://www.fujifilm.com/us/en/business/optical-devices/machine-vision-lens/cf-za-1s-series#anc02
	CF35ZA-1S	https://www.fujifilm.com/us/en/business/optical-devices/machine-vision-lens/cf-za-1s-series#anc03
	HF3520-12M	https://www.fujifilm.com/us/en/business/optical-devices/machine-vision-lens/hf-12m-series#model03
	HF50-XA-5M	https://www.fujifilm.com/uk/en/business/optical-devices/mvlens/hfxa5m#HF04
KOWA	LM8FC24M	https://www.kowa-lenses.com/en/lm8fc24m-24mp-industrial-lens-c-mount?number=12186
	LM12FC24M	https://www.kowa-lenses.com/en/lm12fc24m-24mp-industrial-lens-c-mount
	LM35FC24M	https://www.kowa-lenses.com/en/lm35fc24m-24mp-industrial-lens-c-mount
	LM12XC	https://www.kowa-lenses.com/en/lm12xc-20mp-industrial-lens-c-mount?number=10998
VST	VS-H1218-IRC/11	https://vst.co.jp/en/machine-vision-lenses-en/vs-h-irc-series/
MYUTRON	HF3514V-2	https://www.myutron.com/en/lens/fa/hf/
	HF2514V-2	
	HF1618V-2	

Table 2. RECOMMENDED LENSES (not tested at onsemi)

Lens Maker	Series or Part Number	Link
SCHNEIDER KREUZNACH	EMERALD (Series)	https://schneiderkreuznach.com/en/industrial-optics/products/lenses/emerald
	JADE (Series)	https://schneiderkreuznach.com/en/industrial-optics/products/lenses/jade
	OPAL 2.8/12 C	https://schneiderkreuznach.com/en/industrial-optics/products/lenses/opal
	PYRITE (Series)	https://schneiderkreuznach.com/en/industrial-optics/products/lenses/pyrit
	TOURMALINE (Series)	https://schneiderkreuznach.com/en/industrial-optics/products/lenses/tourmaline

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Table 2. RECOMMENDED LENSES (not tested at onsemi)

Lens Maker	Series or Part Number	Link
CARL ZEISS AG	DIMENSION (Series)	https://www.zeiss.com/consumer-products/int/industrial-lenses/dimension-lenses.html
COMPUTAR	MPZ (Series)	https://computar.com/product_series/80
TAMRON	MA111F-VIR (Series)	https://www.tamron.vision/lenses/ma111f-vir-series/
APPLETECH	AP-E3420A	https://appletec.com/
KOWA	FC24M (Series)	https://lenses.kowa-usa.com/65-fc24m-series
	HC (Series)	https://lenses.kowa-usa.com/31-HC-Series

Table 3. DISTRIBUTORS AND PRODUCERS

Lens Maker	Distributors
CARL ZEISS AG	https://www.zeiss.com/consumer-products/int/industrial-lenses/content/distribution-partners.html
FUJIFILM	Contact cctv_eu@fujifilm.com or +4928217115400
SCHNEIDER KREUZNACH	https://schneiderkreuznach.com/en/company/contact/contact-form
KOWA	https://www.kowa-lenses.com/en/
VST	https://vst.co.jp/en/company/branches/
MYUTRON	https://www.myutron.com/en/inquiry/
COMPUTAR	VISION LIGHT TECH https://www.visionlighttech.com/contact.php
TAMRON	
FUJIFILM	
APPLETEC	https://www.arrow.com/en

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