

Factory Automation Lens Options AND90169/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 5000, XGS 3000 and XGS2000, Optical format 2/3'

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-se-ries#anc01
	CF16ZA-1S	https://www.fujifilm.com/us/en/business/optical-devices/machine-vision-lens/cf-za-1s-se-ries#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#mod-el03
	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	

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Table 2. RECOMMENDED LENSES (not tested at onsemi)

Lens Maker	Series or Part Number	Link
SCHNEIDER	SYLVINE (Series)	https://schneiderkreuznach.com/en/industrial-optics/products/lenses/sylvine
KREUZNACH	AQUAMARINE (Series)	https://schneiderkreuznach.com/en/industrial-optics/products/lenses/aquamarine
	BERYL (Series)	https://schneiderkreuznach.com/en/industrial-optics/products/lenses/beryl
	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
	TOPAZ (Series)	https://schneiderkreuznach.com/en/industrial-optics/products/lenses/topaz
CARL ZEISS AG	DIMENSION (Series)	https://www.zeiss.com/consumer-products/int/industrial-lenses/dimension-lenses.html
COMPUTAR	MPW 3 (Series)	https://computar.com/product_series/91/MPW3%20Machine%20Vision%20Lens%20Series
TAMRON	M117FM-RG (Series)	https://www.tamron.vision/lenses/m117fm-rg-series/
	MA23F (Series)	https://www.tamron.vision/lenses/ma23f-series/
APPLETECH	AP-E3420A	https://appletec.com/
KOWA	JC10M (Series)	https://lenses.kowa-usa.com/27-10MP-JC10M-Series
	JC5M2 (Series)	https://lenses.kowa-usa.com/28-5MP-Plus-JC5M2-Series
	JC5MC (Series)	https://lenses.kowa-usa.com/66-jc5mc-compact-series
	JC1MS (Series)	https://www.kowa-lenses.com/en/lm12jc1ms-2mp-industrial-lens-c-mount
	JC (Series)	https://lenses.kowa-usa.com/32-JC-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	
TAMRON	https://www.visionlighttech.com/contact.php	
FUJIFILM		
APPLETEC	https://www.arrow.com/en	

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