

2D-OMA V: 320 SPECIFICATIONS

CCD image sensor	2D InGaAs focal plane array
CCD format	320 x 256 imaging pixels
Pixel size (μm)	30 x 30 μm

	Minimum	Typical	Maximum
Pixel well capacity (ke-)			
low gain		2500	
high gain		180	
System read noise (e-)		50 (High Gain)	
Nominal gain (e-/count)			
low gain		60	
high gain		3	
Response nonlinearity			
low gain			<1%
high gain			<5%
Response nonuniformity			<10%
Dark current (e-/p/sec)		5000 @ -100°C	

Blemish specification	Grade A: <1% defects, For detailed blemish specifications, contact factory
Digitization (bits)	16
Scan rate (MHz)	1, 5
Frame rate*	53 fps
Cold shield	f#/2.8
Minimum exposure time (msec)	1
Window material	Sapphire (AR coated)
Thermostating precision	$\pm 0.05^\circ\text{C}$ across entire temperature range
Operating temperature	-25 to -100°C

NOTE: All specifications are subject to change.

* No binning allowed