

TECHNICAL SPECIFICATIONS FOR INTENSIFIED CAMERA

Description	Specification Required
Sensor Type	sCMOS
Sensor Size	Greater than 2000x2000 pixels
Pixel Size (μm):	6.0 x 6.0 or larger
Pixel well depth	15 000 e- or more
Frame rate(@full resolution)	50 frames/second or higher
Wavelength range	300 – 720 nm
Intensifier	Generation 3
Intensifier diameter	25 mm
Minimum quantum efficiency for the photocathode	No less than 9% at any wavelength between 300 to 720 nm.
Phosphor type	P46
Digitization	16bit
Dark current noise	must be less than 2 e-/pixel/sec
Read Noise median	Less than 3 e-
Minimum Optical gate width possible	Less than 5 ns
Minimum frame separation in burst mode	500 ns or shorter
Jitter in exposure	<50ps rms
Lens mount type	F-mount
Warranty	Preferred Minimum 2 years Also give additional warranty for next three years as extra option
Optional items (not used for bid decisions)	
Longer cable	Please quote for 20m and 30m cable options separately
Quote for an Fmount lens	with Fnumber f3.5 for 300-720nm wavelengths
C-mount swap flange	Give option of C-mount lens flange swap
Additional Conditions	
1. The photocathode, intensifier and camera should be a single integrated system.	
2. The vendor must supply a complete system including the camera assembly as stated, the computer interface and the software apart from any product-specific essential accessories like power adapter, cables etc.	
3. A complete sheet/matrix must be supplied by the vendor stating that the camera system has met with all the necessary specifications, showing the specification for the quoted model. Also provide required documents to support the table.	

