

Parameter	4 Quik E, digital HR	4 Quik E, digital SR	4 Quik E analog
Internal exposure time	1.2ns - 80s; min. steps 100ps		
External exposure time	1.2ns ... DC		
Trigger propagation delay	internal gate pulse: 60-65ns external gate pulse: 30-35ns		
Jitter	< 0.02ns		
Optical shutter repetition rate	standard: 200kHz (continuous), 3.3MHz (burst mode) optional: 2MHz (continuous), 3.3MHz (burst mode) on request: 5MHz (continuous)		
Dynamic range A/D (EIA/CCIR analog)	14bit, up to 21bit with 4 Spec E image and data acquisition software with all lines integrated (binned), dynamic expansion active		
Sensitivity of system	more than 1count/photoelectron pixel up to 80s integration time on CCD		
Camera digital output	standard: CameraLink, optional: USB 2.0		-
CCD resolution	1360 x 1024 pixel (HR) High Resolution	782 x 582 pixel (SR) Standard Resolution	768 x 494 pixel (EIA) 752 x 582 pixel (CCIR)
CCD pixel size	4.7 x 4.7µm	8.3 x 8.3µm	8.4 x 9.8µm (EIA) 8.6 x 8.3µm (CCIR)
Binning	1x1 (full frame) 2x2 (binning) ROI (region of interest)		-
Frame rate (1x1/2x2/ROI)	10.6 / 17.9 / 20.9fps	33.8 / 60.8 / 67.0fps	-
Image Frequency (analog)	-	-	30/60Hz (EIA) 25/50Hz (CCIR)
Gain	1x1, ROI: 0 to 20db, 2x2: 0 to 25db		remote control RS232
Scan mode	field/frame, selectable through computer RS232 interface		
Optical interface	C-mount (standard), F-mount (optional)		
Coupling lens	customized coupling lens between image intensifier -> CCD sensor for best image quality (MTF cut off @ 180 lp/mm) without any honeycomb structures, distortion or optical vignetting		
Image intensifier	standard: 18mm diameter optional: 25mm diameter		
Input image area (field of view)	ø 18mm: 14.4 x 10.8mm ø 25mm: 20 x 15mm		
Photocathode	standard: S20 (UV) or S25 (IR), others on request		
Spectral sensitivity	UV - NIR, depending on the photocathode		
Phosphor screen	standard: P43, optional: P46 on request		
Camera dimensions	248 x 110 x 135 mm, (l x w x h), without objective lens		
Camera weight	3kg, all in one head, without objective lens		
Camera mount	1/4" x 20 and M8 mounting hole at the bottom of the camera		
Power Supply	12V ±5%		