

Imagex[™]-nanoCCD Technical Datasheet

Model Number: Sensor Type: Image Resolution: Spectral Sensitivity:

Readout System:

Interface:

Light Output Triggers:

Nanosecond Delay Controllers:

Horizontal Binning: Vertical Binning:

Lamp Trigger Frequency:

Power Supply:

Full Frame Readout Time: Minimum Gate Width: Tripod/Optical Mount: Lens Mount:

Lens Mount: Cooling System: Cold Chamber:

Operating System:

Gating Controls:

Gating Control resolution: Gating Extinction Ratio (ON:OFF) Image Integration Time: IMX-NM-3 Interline CCD 1/2" format-Monochrome

752 x 582 in 2 interlaced frames
Maximum@500nm, 62% of maximum@400nm,
93% of maximum@600nm, 62% of
maximum@700nm, 32% of maximum@800nm

14-bit A/D Converter with Correlated Double

Sampling USB 2.0

3 x TTL Outputs (Level 5V=ON 0V=off). BNC Socket. 2 individually programmable 0-255 nsec delays with 1 nanosecond resolution on Lamp Outputs 1 and 2. Nanosecond delays can be controlled either from the supplied application software or from Micromanager Device Adaptor. Nanosecond Delays can also be controlled using the Programmer's Library 1 to 40 pixels 'On-chip' under software control 1 to 40 pixels 'On-chip' under software control

10Hz to 100kHz 24V DC >2Amp c.0.4 seconds 1 microsecond

Standard 1/4 20 UNC mount

C-Mount

Fan-assisted 3-Stage Peltier Cooler Sealed Neoprene/ABS Block system with Double Antireflection-coated windows. Windows XP, Vista, Windows 7/8/10 operating

Systems

Gate Trigger Frequency, Lamp Pulse Width, Gate Width, Gate Delay, Lamp Channel Multiplex Control

200nsec

>29,000:1 at 520nm

>10seconds@100kHz (Limiting Integration Times are dependant

on Gating Frequency)

This product is a Class A Digital Device intended for Installation and use within a commercial, industrial or business environment. It is not intended for domestic/home use. This product has been tested to ensure compliance with the Federal Code of Regulation (CFR Part 15, Subpart B) for Unintentional Radiators. This Product is CE marked for sale within the EU and associated Free Trade Areas.

Standard Systems supplied with:

- 1 x System Unit containing CCD, Delay Generators, Gating Circuitry, Lamp Trigger Units and Image readout system.
- 1 x Imagex Power Supply Box
- 1 x 4-Core *Imagex* Power Supply Box-to-Camera Main Unit Power Cable
- 1 x USB 2.0 Cable for computer connection.
- 1 x BNC to BNC Cable to connect a Light source.
- 1 x 24V Switched Mode Power Supply. (Customer must supply mains lead for local mains supply)
- 1 x Software Installation Disk
- 1 x Imagex User Manual

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