INFINITY 3-1

1.4 Megapixel Cooled CCD USB 2.0 Camera

High Resolution Cooled CCD Color or Monochrome Microscopy Camera for Quantitative Image Analysis



INFINITY3-1

Lumenera's INFINITY3-1 camera is designed to be used in a wide variety of scientific applications. Cooled models are ideal in low-light conditions and where high dynamic range is required. Both color and monochrome product models are available. With 1392x1040 resolution and on-board processing, these cameras deliver outstanfing image quality and value for industrial and scientific imaging applications,

Uncompressed images in live streaming video and still-image capture are provided across a USB 2.0 digital interface. No framegrabber is required.

Superior Sensitivity and Color Reproduction

Equipped with a high quality Sony ICX285 CCD sensor, the INFINITY3-1 has the unmatched light sensitivity needed for low light applications. Superior performance is achieved through low noise electronics, high grade components and Lumenera's unique thermal management techniques. With an extremely high dynamic range and large 6.45 µm square pixels, this camera is an excellent choice for light-challenged applications.

Full Image Analysis Software Included

INFINITY CAPTURE, an intuitive image capture program, and INFINITY ANALYZE, a full image analysis package offering; camera control, measurement, annotations, tiling and post capture enhancement, are both included. Camera and software combine to create a complete microscopy imaging solution for your application.

USB 2.0 Plug-and-Play Interface

Sharing and installation of one or more cameras on a single computer is quick and simple through a high-speed USB 2.0 interface. This camera is compatible with the USB 3.0 interface, supporting the existing USB 2.0 frame rates.

Third-Party Software Integration

INFINITY cameras are integrated into a variety of third-party software packages through direct drivers or with TWAIN/DirectX support.

Mac Camera Software

Lumenera offers support for INFINITY camera users operating on a Mac platform. A Mac camera driver, ImageJ plug-in and the INFINITY ANALYZE for Mac application package are available for the INFINITY3-1. Please refer to the Lumenera web page www.lumenera.com for up-to-date details.

Superior Technical Assistance Center (TAC)

As a Lumenera customer you gain access to the TAC group and knowledge base which provide full support for cameras, software and microscopy applications.

Features

- Low noise progressive scan 2/3" 1.4 megapixel Sony ICX285 CCD sensor
- Full color sub-windowing allows for rapid focus and scanning of samples; up to 54 fps at 640 x 480 resolution
- 8 or 12-bit pixel data modes
- Software compatible with Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit operating systems
- Includes TWAIN and DirectX/ Direct Show support

Recommended Applications

- Fluorescent Microscopy
- Green Fluorescent Protein
- Fluorescent In Situ Hybridization
- DNA Analysis
- Live Cell Imaging
- Brightfield, Darkfield, DIC/Phase Techniques
- Near IR Imaging
- Histology, Pathology and Cytology
- Forensic Analysis
- Semiconductor Inspection
- Metallurgical Microscopy

Warranty

• Four (4) year warranty

Microscope Coupler

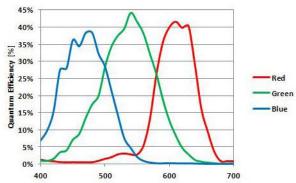
• Requires 0.67 x C-Mount coupler



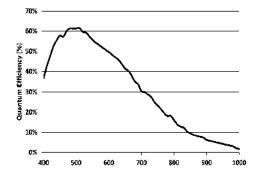
Mechanical Drawing USB CONNECTOR A 3 850 A 2 966 A 3 7 1750 A

INFINITY3-1 WITH GPIO

Color Quantum Efficiency Curves



Monochrome Quantum Efficiency Curve



Sensor Specifications Image Sensor Optical Format 2/3 * Unager Size Diagonal 11 mm Pixel Size As 2/4 × 6.45 µm Resolution 1392 x 1040 pixels Region of Interest Control Any multiple of 8 x 8 pixels (8 x 8 pixels minimum) Camera Specifications Frame Rate 15 fips at full resolution, 54 fips at 640 x 480 (ROI) Bit Depth 3 or 12-bit Binning Modes 2 x 2, 4 x 4 Exposure Control Manual and automatic control Exposure Range 3 ys to 211 ms (video), 2 ys to 10 min (snapshot) Gain Control Manual and automatic control Gain Range 1 to 10 x White Balance Manual and automatic control Camera Characteristics (at 4.7 fips) Sensitivity Global and channel gains at unity) Dynamic Range 70 dB Full Well Depth 18,000 e- Quantum Efficiency 44 % (color peak), 62 % (mono peak) Read Noise 8 e- Dark Current Noise Monos 6,6 ch Mir, Jurany Data Interface Lens Mount Adjustable C-Mount standard Dimensions 385 x 3.5 x 2.4 inches Mass 780 g Operating Temperature 0 to 50 °C Storage Emperature 0 to 50 °C Operating Humidity 5 to 95%, non-condensing Shock, Vibration Operating Systems Vindows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Power Cansumption - 2.5 W uncooled/ -8.5 W cooled Power Requirement Four 4.1 3 GHz or higher - 512 MB RAM Four 4.1 3 GHz or higher - 5		
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Camera Characteristics (at 4.7 fps) Sensitivity (Global and channel gains at unity) Dynamic Range 70 dB Full Well Depth 18,000 e- Quantum Efficiency 44 % (color peak), 62 % (mono peak) Read Noise 8 e- Dark Current Noise < <0.15 e-/s at 22 °C Mechanical Specifications Data Interface USB 2.0 Lens Mount Adjustable C-Mount standard Dimensions 385 x 3.5 x 2.4 inches Mass 780 g Operating Temperature 0 to 50 °C Storage Temperature -30 to 70 °C Operating Humidity 5 to 95%, non-condensing Shock / Vibration 50 G shock, 5 G (2 to 200 Hz) vibration Onboard Memory Camera has onboard non-volatile memory storage Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Power Requirement 5 V DC. 12.5 W (included with camera) Emissions Compliances FCC Class B, CE Certified Hazardous Materials RoHs, WEEE Compliant Warranty Four (4) year System Requirements Penetium 4, 1.3 GHz or higher 512 MB RAM 64-bit Norway Four (4) year INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-17	Gain Range	1 to 10 x
Sensitivity (Global and channel gains at unity) Dynamic Range 70 dB Full Well Depth 18,000 e- Quantum Efficiency 44 % (color peak), 62 % (mono peak) Read Noise 8 e- Dark Current Noise < <0.15 e-/s at 22 °C Mechanical Specifications Data Interface USB 2.0 Lens Mount Adjustable C-Mount standard Dimensions 3,85 x 3.5 x 2.4 inches Mass 780 g Operating Temperature 0 to 50 °C Storage Temperature 30 to 70 °C Operating Humidity 5 to 95%, non-condensing Shock / Vibration 50 G shock, 5 G (2 to 200 Hz) vibration Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Power and Emissions Power Consumption -2.5 W uncooled/ -8.5 W cooled Power Requirement 5 V DC. 12.5 W (included with camera) Emissions Compliances FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Warranty Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 64-bit Power and Emissions Recommended PC Specs: Pentium 4, 1.3 GHz or higher 512 MB RAM 64-bit Power and Emismore Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 64-bit Power and Emismore Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 64-bit Power and Emismore Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 64-bit Power and documentation Software, TWAIN driver and documentation software, TWAIN driver and documentation INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY ANALYZE MODULE	White Balance	Manual and automatic control
Dynamic Range 70 dB Full Well Depth 18,000 e- Quantum Efficiency 44 % (color peak), 62 % (mono peak) Read Noise 8 e- Dark Current Noise <0.15 e-/s at 22 °C Mechanical Specifications Data Interface USB 2.0 Lens Mount Adjustable C-Mount standard Dimensions 97.8 x 88.9 x 60.6 mm 3.85 x 3.5 x 2.4 inches Mass 780 g Operating Temperature 0 to 50 °C Storage Temperature -30 to 70 °C Operating Humidity 5 to 95%, non-condensing Shock / Vibration 50 G shock, 5 G (2 to 200 Hz) vibration Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Power and Emissions Power Consumption -2.5 W uncooled/ -8.5 W cooled Power Requirement 5 V DC. 12.5 W (included with camera) Emissions Compliances FCC Class B, CE Certified Hazardous Materials Warranty Four (4) year System Requirements Pentium 4, 1.3 GHz or higher -512 MB RAM -60 MB hard drive free space or more - USB 2.0 Port - Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit nocluded In The Box INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY3-1M INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE	Camera Characteristics (at 4.7 fps)	
Dynamic Range 70 dB Full Well Depth 18,000 e- Quantum Efficiency 44 % (color peak), 62 % (mono peak) Read Noise 8 e- Dark Current Noise 40,15 e-/s at 22 °C Mechanical Specifications Data Interface USB 2.0 Lens Mount Adjustable C-Mount standard Dimensions 97.8 x 88.9 x 60.6 mm 3.85 x 3.5 x 2.4 inches Mass 780 g Operating Temperature 30 to 70 °C Operating Humidity 5 to 95%, non-condensing Shock / Vibration 50 G shock, 5 G (2 to 200 Hz) vibration Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Power and Emissions Power Consumption -2.5 W uncooled/ -8.5 W cooled Power Requirement 5 V DC. 12.5 W (included with camera) Emissions Compliances FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Warranty Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 64-bit Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Warranty Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 64-bit No Bh hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit No Bh hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit No Bh hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit No Bh hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit No Bh hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit No Bh hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit No Bh hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit No Bh hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit No Bh hard drive free Space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit No Bh hard drive free Space or more USB 2.0 Port Windows 10, 8, 7, Vist	Sensitivity	Mono: 6.6 DN/(nJ/cm²), Color: 5.3 DN/(nJ/cm²)
Full Well Depth 18,000 e- Quantum Efficiency 44 % (color peak), 62 % (mono peak) Read Noise 8 e- Dark Current Noise 8 e- Dark Current Noise 8 e- Dark Current Noise Vo.15 e-/s at 22 °C Mechanical Specifications Data Interface USB 2.0 Lens Mount Adjustable C-Mount standard Dimensions 97.8 x 88.9 x 60.6 mm 3.85 x 3.5 x 2.4 inches Mass 780 g Operating Temperature 0 to 50 °C Storage Temperature -30 to 70 °C Operating Humidity 5 to 95%, non-condensing Shock / Vibration Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Power and Emissions Power Consumption -2.5 W uncooled/ -8.5 W cooled Power Requirement 5 V DC. 12.5 W (included with camera) Emissions Compliances FCC Class B, CE Certified Hazardous Materials RoHs, WEEE Compliant Warranty Four (4) year System Requirements * Pentium 4, 1.3 GHz or higher - 512 MB RAM 60 MB hard drive free space or more - USB 2.0 Port - USB 2.	-	
Quantum Efficiency 44 % (color peak), 62 % (mono peak) Read Noise 8 e- Dark Current Noise <0.15 e-/s at 22 °C		
Read Noise 8 e- Dark Current Noise <0.15 e-/s at 22 °C Mechanical Specifications Data Interface USB 2.0 Lens Mount Adjustable C-Mount standard Dimensions 97.8 x 88.9 x 60.6 mm 3.85 x 3.5 x 2.4 inches Mass 780 g Operating Temperature 0 to 50 °C Storage Temperature -30 to 70 °C Operating Humidity 5 to 95%, non-condensing Shock / Vibration 50 G shock, 5 G (2 to 200 Hz) vibration Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Power and Emissions Power Consumption ~2.5 W uncooled/ ~8.5 W cooled Power Requirement 5 V DC. 12.5 W (included with camera) Emissions Compliances FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Warranty Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more 182 LO Pentium 4, 1.3 GHz or higher 512 MB RAM 64-bit Included In The Box INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE	Full Well Depth	18,000 e-
Dark Current Noise Vol. 15 e-/s at 22 °C	Quantum Efficiency	44 % (color peak), 62 % (mono peak)
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Data Interface Lens Mount Adjustable C-Mount standard Dimensions 97.8 x 88.9 x 60.6 mm 3.85 x 3.5 x 2.4 inches Mass 780 g Operating Temperature 0 to 50 °C Storage Temperature -30 to 70 °C Operating Humidity 5 to 95%, non-condensing Shock / Vibration Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Power and Emissions Power Consumption -2.5 W uncooled/ ~8.5 W cooled Power Requirement 5 V DC. 12.5 W (included with camera) Emissions Compliances FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Warranty Four (4) year System Requirements - Pentium 4, 1.3 GHz or higher - 512 MB RAM - 60 MB hard drive free space or more - USB 2.0 Port - Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and - 64-bit Included In The Box INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable LuINFSW-DVD DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY ANALYZE MODULE Negative Composition and Spherical Aberration Correction Features)	Dark Current Noise	<0.15 e-/s at 22 °C
Lens Mount Adjustable C-Mount standard Dimensions 97.8 x 88.9 x 60.6 mm 3.85 x 3.5 x 2.4 inches Mass 780 g Operating Temperature 0 to 50 °C Storage Temperature -30 to 70 °C Operating Humidity 5 to 95%, non-condensing Shock / Vibration Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Power and Emissions Power Consumption -2.5 W uncooled/ ~8.5 W cooled Power Requirement 5 V DC. 12.5 W (included with camera) Emissions Compliances FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Warranty Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Included In The Box INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY ANALYZE MODULE Negative Module (Multi-Focus Composition and Spherical Aberration Correction Features)	Mechanical Specifications	
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Mass 780 g Operating Temperature 0 to 50 °C Storage Temperature -30 to 70 °C Operating Humidity 5 to 95%, non-condensing Shock / Vibration 50 G shock, 5 G (2 to 200 Hz) vibration Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Power and Emissions Power Consumption -2.5 W uncooled/ ~8.5 W cooled Power Requirement 5 V DC. 12.5 W (included with camera) Emissions Compliances FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Warranty Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more 1 USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Included In The Box INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE	Lens Mount	Adjustable C-Mount standard
Operating Temperature Storage Temperature -30 to 70 °C Operating Humidity 5 to 95%, non-condensing Shock / Vibration Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Power and Emissions Power Consumption Power Requirement FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 5 12 MB RAM 60 MB hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Included In The Box INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY ANALYZE MODULE Other Association Non-correction Features)	Dimensions	
Storage Temperature Operating Humidity S to 95%, non-condensing Shock / Vibration Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Power and Emissions Power Consumption -2.5 W uncooled/ -8.5 W cooled Power Requirement 5 V DC. 12.5 W (included with camera) Emissions Compliances FCC Class B, CE Certified Hazardous Materials Warranty Four (4) year System Requirements - Pentium 4, 1.3 GHz or higher - 512 MB RAM - 60 MB hard drive free space or more - USB 2.0 Port - Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Included In The Box INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE	Mass	780 g
Operating Humidity Shock / Vibration Shock / Vibration Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Power and Emissions Power Consumption -2.5 W uncooled/ ~8.5 W cooled Power Requirement FCC Class B, CE Certified Hazardous Materials Warranty Four (4) year System Requirements Penetium 4, 1.3 GHz or higher - 512 MB RAM - 60 MB hard drive free space or more - USB 2.0 Port - Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Included In The Box INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY3-1M INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE Orderid Information INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE Orderid Information INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE	Operating Temperature	0 to 50 °C
Shock / Vibration 50 G shock, 5 G (2 to 200 Hz) vibration Onboard Memory Camera has onboard non-volatile memory storage Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Power and Emissions Power Consumption ~2.5 W uncooled/ ~8.5 W cooled Power Requirement 5 V DC. 12.5 W (included with camera) Emissions Compliances FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Warranty Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Included In The Box INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY3-1M INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE Storage And Short Storage Avanced Features Module (Multi-Focus Composition and Spherical Aberration Correction Features)	Storage Temperature	-30 to 70 °C
Onboard Memory Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Power and Emissions Power Consumption Power Requirement FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Warranty Four (4) year System Requirements Pentium 4, 1.3 GHz or higher S12 MB RAM OB MB hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Included In The Box INFINITY3-1 I.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY3-1M INFINITY ANALYZE MODULE Orderid Information and Spherical Aberration Correction Features)	Operating Humidity	5 to 95%, non-condensing
Camera Software Operating Systems Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Power and Emissions Power Consumption ~2.5 W uncooled/ ~8.5 W cooled Power Requirement 5 V DC. 12.5 W (included with camera) Emissions Compliances FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Warranty Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Included In The Box INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE	Shock / Vibration	50 G shock, 5 G (2 to 200 Hz) vibration
Operating Systems Power and Emissions Power Consumption -2.5 W uncooled/ -8.5 W cooled Power Requirement 5 V DC. 12.5 W (included with camera) Emissions Compliances FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Warranty Four (4) year System Requirements - Pentium 4, 1.3 GHz or higher - 512 MB RAM - 60 MB hard drive free space or more - USB 2.0 Port - Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and - 64-bit Included In The Box INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY ANALYZE MODULE Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY3-1M INFINITY ANALYZE Advanced Features Module (Multi-Focus Composition and Spherical Aberration Correction Features)	Onboard Memory	Camera has onboard non-volatile memory storage
Power and Emissions Power Consumption	Camera Software	
Power Consumption ~2.5 W uncooled/ ~8.5 W cooled Power Requirement 5 V DC. 12.5 W (included with camera) Emissions Compliances FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Warranty Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Included In The Box INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE	Operating Systems	Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit
Power Requirement Emissions Compliances FCC Class B, CE Certified Hazardous Materials RoHS, WEEE Compliant Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Included In The Box INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE Four (4) year Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more 60 MB hard drive free space or more 61 USB 2.0 Port 61 USB 2.0 Port 72 Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit 64-bit 64 USB 2.0 Cable 65 USB 2.0 Cable 66 USB 2.0 Cable 67 USB 2.0 Cable 67 USB 2.0 Cable 68 USB 2.0 Cable 69 USB 2.0 Cable 69 USB 2.0 Cable 69 USB 2.0 Cable 60 MB hard drive free space or more 60 USB 2.0 Port 60 USB 2.0 Por	Power and Emissions	
Emissions Compliances Hazardous Materials RoHS, WEEE Compliant Warranty Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Included In The Box INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE Four (4) year Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 rate of the space of the sp	Power Consumption	~2.5 W uncooled/ ~8.5 W cooled
Hazardous Materials Warranty Four (4) year System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Included In The Box INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE Orderid Information INFINITY ANALYZE MODULE ORDER INFINITY ANALYZE MODULE ORDER INFINITY ANALYZE Advanced Features Module (Multi-Focus Composition and Spherical Aberration Correction Features)	·	,
Warranty System Requirements Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Included In The Box INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY 3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE OPentium 4, 1.3 GHz or higher 9 512 MB RAM 9 60 MB hard drive free space or more 9 USB 2.0 Port	Emissions Compliances	
Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Included In The Box INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE OPentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit 1.4 MP digital camera + 3m USB 2.0 cable Color 1.3 MP Cooled CCD Camera INFINITY3-1C INFINITY ANALYZE Advanced Features Module (Multi-Focus Composition and Spherical Aberration Correction Features)	Hazardous Materials	RoHS, WEEE Compliant
Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 Port Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit Included In The Box INFINITY3-1 1.4 MP digital camera + 3m USB 2.0 cable DVD with INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY3-1M Monochrome 1.3 MP Cooled CCD Camera INFINITY ANALYZE MODULE INFINITY ANALYZE MODULE Pentium 4, 1.3 GHz or higher 512 MB RAM 60 MB hard drive free space or more USB 2.0 Port 64 Winter and USB 2.0 cable 64-bit 64-bit 65 Windows 10, 8, 7, Vista, Mac OS X 10.7, 32 and 64-bit 66 Winter and USB 2.0 cable 67 Wall INFINITY user application software, TWAIN driver and documentation Ordering Information INFINITY3-1C Color 1.3 MP Cooled CCD Camera INFINITY ANALYZE Advanced Features Module (Multi-Focus Composition and Spherical Aberration Correction Features)		Four (4) year
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MODULE (Multi-Focus Composition and Spherical Aberration Correction Features)	INFINITY3-1M	
LuSDKSW Software Developer's Kit (Web Download)		(Multi-Focus Composition and Spherical Aberration
	LuSDKSW	Software Developer's Kit (Web Download)

