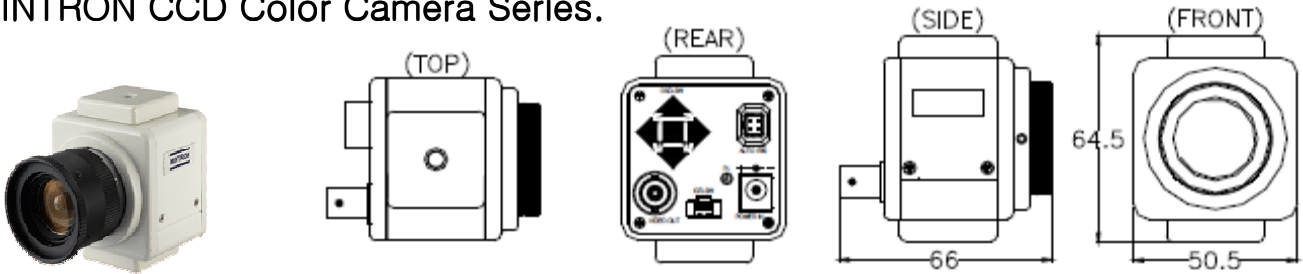


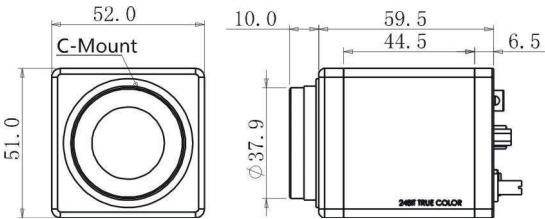
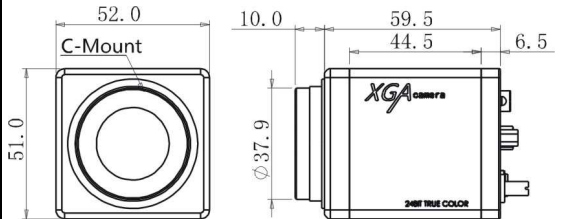
5. MINTRON CCD Color Camera Series.



MODE NO.		7285HNEX	7285HPEX	7385HN	7385HP
TV SYSTEM		NTSC	PAL	NTSC	PAL
IMAGE SENSOR		1/2-inch I.L. CCD Image Sensor		1/3-inch I.L. CCD Image Sensor	
CCD TOTAL PIXELS		~ 410K	~ 470K	~ 410K	~ 470K
SYNC SYSTEM		Internal		Internal	
MINIMUM ILLUMINATION		0.2 lux@F1.2 (sense up off)		0.012 lux@F1.2 /20 IRE AGC on B/W 0.0014 lux@F1.2 /20 IRE SENS-UP (32X) B/W	
LENS & VIEW ANGLE		C/CS Mount		C/CS Mount	
RESOLUTION		540 TVL		540 TVL	
WHITE BALANCE	Mode	ATW / AWC		ATW / AWC	
	Range	3200 ~ 9000 °K		3200 ~ 9000 °K	
S/N RATIO TYPICAL(MAX)		50dB(MIN)/ 58dB(TYP)(Gamma, Aperture, AGC, OFF)		50dB(MIN)/58dB (TYP)(Gamma, Aperture, AGC, OFF)	
SENSE UP		ON / OFF (Preset 8X ,Max 256X by OSD set)		ON / OFF (Preset 8X ,Max 256X by OSD set)	
H – MIRROR FUNCTION		OFF / ON (By OSD set)		OFF / ON (By OSD set)	
V – MIRROR FUNCTION		OFF / ON (By OSD set)		OFF / ON (By OSD set)	
B.L.C. FUNCTION		ON / OFF (By OSD set)		ON / OFF (By OSD set)	
ZOOM FUNCTION		OFF / ON (By OSD set)		OFF / ON (By OSD set)	
ENHANCE		HIGH / MID (By OSD set)		HIGH / MID (By OSD set)	
FLICKLESS		OFF / ON (By OSD set)		OFF / ON (By OSD set)	
COLOR BAR		OFF / ON (By OSD set)		OFF / ON (By OSD set)	
IR-Cut-FILTER SW				AUTO / EXT-CONT.	
GAMMA CORRECTION		0.45 / 1.0 (By OSD set)		0.45 / 1.0 (By OSD set)	
GAIN CONTROL		AGC ON / OFF (By OSD set)		AGC ON / OFF (By OSD set)	
AUTO IRIS		A.E.S. / DC-IRIS (By OSD set)		A.E.S. / DC-IRIS (By OSD set)	
DAY/NIGHT SW		ON/OFF (By OSD set)		ON/OFF (By OSD set)	
TITLE		By OSD set		By OSD set	
MASK		By OSD set		By OSD set	
ELECTRONIC SHUTTER	A.E.S.	1/60~1/120,000 sec.	1/50~1/120,000 sec.	1/60~1/120,000 sec.	1/50~1/120,000 sec.
	FIX.	1/60(50),1/100(120),1/250,1/500,		1/60(50),1/100(120),1/250,1/500,	

		1/1000,1/2000,1/4000,1/10000sec.	1/1000,1/2000,1/4000,1/10000sec.
VIDEO OUTPUT		1.0V p-p composite video at 75 ohm	1.0V p-p composite video at 75 ohm
OPERATION TEMPERATURE		-20℃ TO 50℃	-20℃ TO 50℃
OPERATIONAL HUMIDITY		within 85% RH	within 85% RH
POWER SUPPLY		DC12V±1V / 150mA	DC12V±1V / 150mA

6. VICO Imaging Color Camera Series. A. HDMI,VGA출력 Monitoring Camera.

Model	DP-130VN-H	DP-130VN-V	DP-200VN-H	DP-200VN-V
화소수	1280X1024,1280X720,1024X768	1280X1024,1280X720,1024X768	1920X1080	1920X1080
Pixel Size (μm)	3.75 X 3.75	3.75 X 3.75	3 X 3	3 X 3
Sensor Size	1/3.0"	1/3.0"	1/2.7"	1/2.7"
Color Depth	8:8:8 RGB,24bit true color	8:8:8 RGB,24bit true color	8:8:8 RGB,24bit true color	8:8:8 RGB,24bit true color
Frame Rate(fps)	60/60	60/60	30/60	60/60
Mount	C	C	C	C
Output	HDMI	VGA	HDMI	VGA
Sensor Type	CMOS	CMOS	CMOS	CMOS
Dimension				

B. Muti-Function HDMI,VGA출력 Camera.

Model	MF-130V	MF-200V	MF200H	MF-200LCD
화소수	1280X1024,1280X720,1024X768	1920X1080,1440X900	1920X1080	1920X1080
Pixel Size (μm)	4.4 X 4.4	3 X 3	2.75 X 2.75	2.75 X 2.75
Sensor Size	1/2.5"	1/2.7"	1/2.86"	1/2.86"
Color Depth	8:8:8 RGB,24bit true color	8:8:8 RGB,24bit true color	Full HD	Full HD
Frame Rate(fps)	30	30	60	60
Mount	C	C	C	C
Output	VGA	VGA	HDMI	LCD
Sensor Type	CMOS	CMOS	CMOS	CMOS
특징	The MF series Industrial Cameras is designed for grabbing HDTV format image and directly display it by the LED, projector or other device via VGA or HDMI port. Additionally, they can store images by U disk or SD card, mark graphic lines and controlled by PC mouse. Mainly used in parts inspection, assembly processing, medical and biology imaging, microscope imaging, scientific research, education field and so on.			

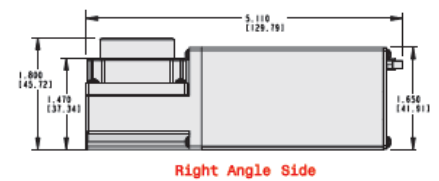
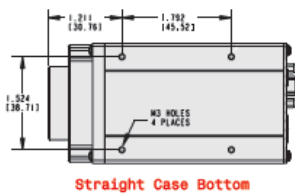
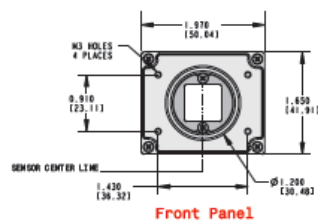
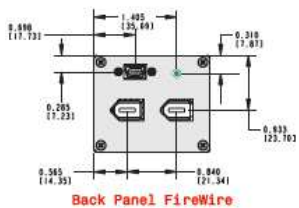
C. Smart Multi-Function HDMI,VGA출력 Camera.

Model	SC-ZYNQ-P01	Dimension (mmxmmxmm)	60x60x65
화소수	1290X1080	Frame Rate(fps)	30
Pixel Size (μm)	2.75 X 2.75	Mount	C
Sensor Size	1/3"	Photo Storage Mode	U Disk Storage
Color Depth	12:12:12 RGB	Output	HDMI



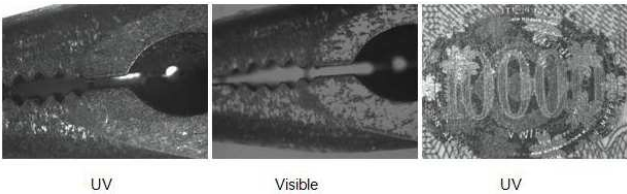
7. Pixelink IEEE1394A Camera Series.

Model	Resolution (Pixel)	Pixel Size (μm)	Sensor Format	Dimension (mm)	CCD CMOS	Mount	IEEE1394A (fps)	기타
PL-B782	2208X3000	3.5X3.5	1"	50x41x102	CMOS	C	5	칼라,Rolling
PL-B781	2208X3000	3.5X3.5	1"	50x41x102	CMOS	C	5	흑백, Rolling
PL-B778	2592X1944	2.2X2.2	1/2"	50x41x102	CMOS	C	7	칼라,Rolling
PL-B777	2592X1944	2.2X2.2	1/2"	50x41x102	CMOS	C	7	흑백, Rolling
PL-B776	2048X1536	3.2X3.2	1/2"	50X41X102	CMOS	C	12	칼라,Rolling
PL-B774	1600X1200	4.2X4.2	1/2"	50X41X102	CMOS	C	20	칼라,Rolling
PL-B771	1280X1024	5.2X5.2	1/2"	50X41X102	CMOS	C	30	흑백,Rolling
PL-B762	752X480	6X6	1/3"	50X41X102	CMOS	C	60	칼라,Global
PL-B761	752X480	6X6	1/3"	50X41X102	CMOS	C	60	흑백,Global
PL-B742	1280X1024	6.7X6.7	2/3"	50X41X102	CMOS	C	27	칼라,Global
PL-B741	1280X1024	6.7X6.7	2/3"	50X41X102	CMOS	C	27	흑백,Global,NIR
PL-B959	1600X1200	4.4X4.4	1/1.8"	50X41X119	CCD	C	15	흑백
PL-B958	1600X1200	4.4X4.4	1/1.8"	50X41X119	CCD	C	15	칼라
PL-B957	1392X1040	6.45X6.45	2/3"	50X41X119	CCD	C	15	흑백
PL-B956	1392X1040	6.45X6.45	2/3"	50X41X119	CCD	C	15	칼라
PL-B955H	1392X1040	4.65X4.65	1/2"	50X41X119	CCD	C	15	흑백
PL-B954H	1392X1040	4.65X4.65	1/2"	50X41X119	CCD	C	15	칼라
PL-B955	1392X1040	4.65X4.65	1/2"	50X41X119	CCD	C	10	흑백
PL-B954	1392X1040	4.65X4.65	1/2"	50X41X119	CCD	C	10	칼라
PL-B953	1024X768	4.65X4.65	1/3"	50X41X119	CCD	C	20	흑백
PL-B952	1024X768	4.65X4.65	1/3"	50X41X119	CCD	C	20	칼라



8. UV Camera Series.

Model	Resolution (Pixel)	Pixel (μm)	Sensor Format	Dimension (mm)	CCD CMOS	Mount	(fps)	기타
VCFC-1450UVCL	1392X1040	4.65	1/2"	46X42X128	CCD	C	15	UV, Camera Link
Trax-UV	1280X1024	10.8	13.8X11.06	51X51X76	CMOS	C	30	UV, Camera Link
VC-1.3MP-UV	1360X1024	4.65	1/2"		CMOS	C	12	UV, USB2.O, Global



9. Infrared(IR) Camera Series.

ADVANCED CAMERA TECHNOLOGY FOR SCIENTIFIC AND INDUSTRIAL APPLICATIONS

NEW! Near Infrared in Real Time
Now includes auto contrast and edge enhancement

IR-1000 Real Time CCD Camera

- High sensitivity
- Near infrared
- New! Automatic contrast
- New! Edge enhancement



Dage-MTI IR-1000 Infrared CCD Camera and control unit

Ideal for applications such as...

- Electrophysiology
- Fluorescence Microscopy
- Brightfield, Phase Contrast, and Darkfield Microscopy
- Semiconductor Inspection
- Manufacturing Quality Control
- Failure Analysis
- Forensic Analysis
- Teaching Environment



High Sensitivity in Near IR

- Excellent sensitivity in near IR and entire visible spectrum response from 380 nm to 1200 nm
- Provides 5 times more sensitivity at 900 nm

NEW Automatic Contrast

- Electronics instantaneously readjust for optimum contrast
- Useful when changing magnification levels, specimens and/or lighting levels

NEW Edge Enhancement

- Real-time edge enhancement sharpens edges
- Delivers clearer picture by resolving fine details in the image

70 Series Infrared

Lead Sulfide Video Camera

The LSC-70 series real-time video camera is ideal for applications requiring infrared sensitivity up to 2200nm. Designed for quantitative analysis, the front panel controls offer precise automatic or manual operation. Maximum contrast and optimum image sharpness is obtained through the extended gain and black level offset ranges and aperture and bandwidth controls.



Above: Dage-MTI LSC 70 Infrared Lead Sulfide Video Camera. Comparable to the now discontinued Hamamatsu C2741-03.

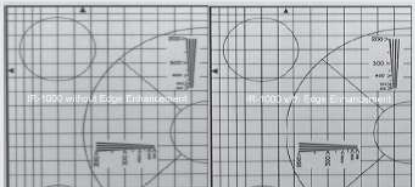
FEATURES AND BENEFITS

Imaging Device	Lead Sulfide (1-inch infrared vidicon)
Spectral Response	400 nm - 1800 nm (2200 nm)
Real-Time Video Output	RS-170 or CCIR
High Resolution	700 TV lines Resolves fine detail
Image Tubes	Lead Sulfide (response up to 2200nm)
Designed for Quantitative Analysis	Precise, lockable controls for calibrated measurements
Adjustable Image Enhancement	Automatic/manual gain control Automatic/manual black level control Aperture and bandwidth control for optimum sharpness with minimum noise Gamma provides setting of linear for quantitative measurements or compensation for CRT display to improve low contrast images
High/Low Gain Switch	Provides additional gain boost for low contrast images

IR-1000 Real Time CCD Camera

SPECIFICATIONS

Pick-Up Device	1/2" interline CCD with microlens
Signal-to-Noise Ratio	>66dB
Shading	<6% overall
Sensitivity	.08fc (0.6 lux) on sensing area @ 3200K
Minimum illumination	.00036 fc (.0036 lux)
Gamma Correction	Gamma set to 1.0 at factory
Gain/Black Level	Switchable fixed or automatic (100:1)
Electronic Shutter	Nine-step manual to 1/10,000
Active Picture Elements	IR-1000 RS-170 768 (H) x 494 (V) IR-1000 E CCIR 762 (H) x 582 (V)
Picture Element Size	8.6um (H) x 9.8um (V) 8.6um (H) x 8.3um (V)
Horizontal Resolution	670 TVL 650 TVL
Pixel Clock Frequency	14.318 MHz 14.1875 MHz
Vertical Rate	59.94 Hz 60 Hz
Horizontal Rate	15.734 Hz 15.625 Hz
Lens Mount	"C" mount
Options	Computer interface Investigator 1/2" optical coupler
Operating temperature	0°C to +40°C
Input voltage	95 VAC to 250 VAC



- Real-time edge enhancement greatly increases fine detail
- Automatic contrast - When a scene changes, the electronics automatically and instantaneously readjust to achieve optimum contrast

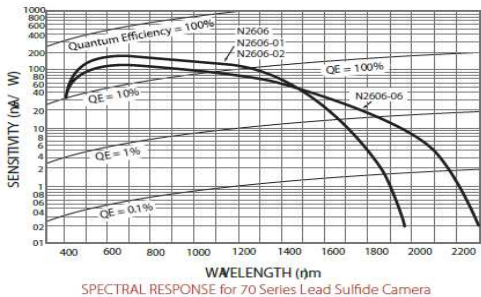


70 Series Infrared Lead Sulfide Video Camera

FEATURES AND BENEFITS

Polarity Reversal	Provides inverted grey scale output
Grey Scale Stretch	Provides a six-fold amplification of user selected grey levels
Two-Piece Design	Allows for convenient desk-top control of image enhancement features Extended cable lengths available
Ten-Step Grey Scale Test Signal	Allows the user to quickly and correctly set the contrast and brightness on a monitor

SPECTRAL RESPONSE



- High sensitivity
- Near infrared
- New! Automatic contrast
- New! Edge enhancement



Dage-MTI IR-1000 Infrared CCD Camera and control unit

Features:

- NIR Spectral Response
- High Sensitivity
- Two-Piece Design
- Wide Range Automatic Gain
- Wide Range Black Level
- Ten-Step Grey Scale Test Signal
- On-Chip Integration

DAGE-MTI

For more information, call (219) 872-5514 or visit www.dagemti.com.

Call today for product specs, demo, or to place an order.

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SPECIFICATIONS

Input Voltage	98 to 135 volts 50/60 Hz or 195 to 260 volts 50/60 Hz
Input Power	18 watts @ 120 volts AC
Vertical Sweep Rate	60 Hz standard or 50 Hz
Horizontal Sweep Frequency	12 KHz to 35 KHz
Scanning	2:1 Interface, 525/60 or 625/50 standard

Imaging Device	Lead Sulfide (1-inch infrared vidicon)
Sensitivity	75 nanamps of average tube signal current for 1 volt composite output
Automatic Gain	Over 12 db at full bandwidth
Video Output	Composite 1 Vpp, black to white .65 volts, .3v sync, black negative Polarity; source terminated 75 ohm. Dual isolated video outputs.
Geometric Distortion	Within major circle 0.5% - Overall 1.0%
Linearity Distortion	Horizontal: 0.25% Vertical: 0.25%
External Lock	Lockable to External H&V Drive or Composite Sync
Enhancement	Adjustable 0 to +12db at user specified peaking frequency

Video Amplifier

Greater than 18 mHz bandwidth DC coupled output, black reference at ground potential
White Clipper
Variable Bandwidth control
Automatic Black Level
Automatic Video Level
Gamma correction - switchable between 1 and 5
Crystal Control
External Drive/Sync Lock

Options

MECHANICAL

Head (less lens)
Weight
Control Unit
Weight
Lens Mount
Camera Mount
Type of Coaxial Connector

2-7/8" (H) x 2-3/4" (W) x 9-1/4" (L)
2 lbs. 4 oz. (1 Kg)
3-3/4" (H) x 8-5/8" (W) x 12-3/4" (L)
7.2 lbs (3.28 Kg)
"C" mount
Two 1/2" x 20 tapped holes
BNC

70 Series Infrared Lead Sulfide Video Camera

SPECIFICATIONS (CONTINUED)

ENVIRONMENTAL

Ambient Temperature Limits	-20°C to +45°C
Air Pressure Limits	Sea Level to 10,000 ft.
Vibration Limits	15 to 55 Hz, .015 inch excursion, 45 min. each axis
Shock Limits	5 gs
Humidity Limits	0 to 95% humidity



Above (left) Dage-MTLSC 70 camera head, and (right) control panel. Lens not included.

Specifications

CCD Size:	2.3"
Pixel:	768 (H) x 494 (V)
Cell Size:	11.6 (H) x 13.6 (V) um
Aspect Ratio:	4:3
Resolution:	570 (H) x 485 (V) TV lines
SN:	56db
Gamma:	0.45 to 1.0
AGC:	On/Off
Shutter:	1/100 - 1/10000
Sync:	Internal/External
Trigger:	Field on Demand
Output:	RS-170 1.0 V p-p
Power:	12V DC
Fiber Bundle:	16 mm, 25 mm
Input Diameter:	Standard (other sizes: available upon request)
Input Pixel Size (horizontal):	20 um, 31 um
Limiting Resolution at:	18 lp/mm, 12 lp/mm
Input Window (depending on x-ray coating):	
Energy Range:	5 to 120 KeV (can be optimized for certain energy ranges)
Input Window Protective Cover:	Aluminized (other window materials: available upon request)
Dimension:	50 mm wide x 36 mm high x 104 mm deep
Option:	- Custom window materials for lower kV applications - Custom fiber optic diameter



Sample Pictures

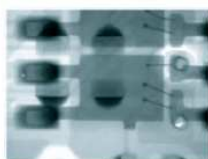


Image of printed circuit board with 16mm X-ray Camera 640 x 480

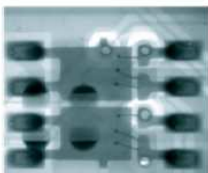


Image of printed circuit board with 25mm X-ray Camera 640 x 480

Ordering Info

X-ray Camera 640 x 480 Std: Standard unit camera with standard GdOS coating (balanced for resolution and max light output)

X-ray Camera 640 x 480 Option 1: Without GdOS coating (for non-x-ray applications)

X-ray Camera 2K x 2K/Option 2: Custom protective input window material (e.g., aluminum, mylar)

NOTE: Customer must provide the X-ray source.

Specifications

CCD Size:	1"
Pixel:	2048 (H) x 2048 (V)
Cell Size:	7.4 (H) x 7.4 (V) um
Aspect Ratio:	1:1
Digital Format:	8/10/12 bit
Frame Rate:	11 fps to 20 fps
Shutter:	1/14000 - 7 seconds
Output:	CameraLink® or GigE
Power:	12V DC
Input Size:	50mm x 50mm (other sizes upon request)
Input Pixel Size (horizontal):	24.8 um
Limiting Resolution at:	20 lp/mm
Input Window (depending on x-ray coating):	
Energy Range:	5 to 120 KeV (can be optimized for certain energy ranges)
Input Window Protective Cover:	Aluminized (other window materials: available upon request)
Saturation Signal:	40,000 e-
Dimension:	68 mm wide x 68 mm high x 129 mm deep Front of camera is about 80mm in diameter
Option:	- Custom window materials for lower kV applications - Custom fiber optic diameter

Sample Pictures

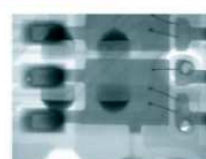


Image of printed circuit board with X-ray Camera 2K x 2K



Ordering Info

X-ray Camera 2K x 2K/Std: Standard unit camera with standard GdOS coating (balanced for resolution and max light output)

X-ray Camera 2K x 2K/Option 1: Without GdOS coating (for non-x-ray applications)

X-ray Camera 2K x 2K/Option 2: Custom protective input window material (e.g., aluminum, mylar)

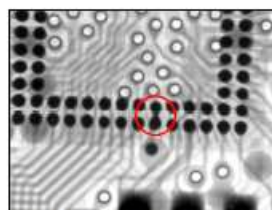
NOTE: Customer must provide the X-ray source.

Specifications

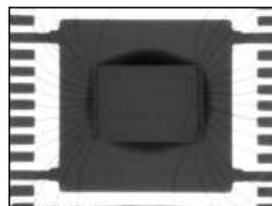
General Specifications

Image Sensor	2/3" CCD, ICX285 AL/AQ
Picture Size	1388 (H) x 1040 (V)
Data Path	8 bit or 12 bit B/W
Pixel Size	6.45 x 6.45 um
Pixel Size at Input	14.6 microns
Max FPS / Max Res.	30 fps
Fiber Taper	25 mm diameter (Custom diameters available on request)
Fiber Ratio	2.27 to 1 for the 25mm taper
Limiting Resolution at Input Window	20+ lp/mm (depending on x-ray coating)
Energy Range	5 to 120 KeV (can be optimized for certain energy ranges)
Input Window Protective Cover	Aluminized (other window materials available upon request)
Saturation Signal	40,000 e-
Scanning System	Progressive Scan
Binning	1x1, or 2 x 2
ROI	Partial Scan (Unit: 4x4)
Trigger	Edge: Rising Edge or Falling Edge Mode: Mode 0, 1, 2, 4, 5, 12, 13, 15 Source: External Trigger (Photo-coupler) or Software Trigger
Strobe Output	Supports Normal Mode or Trigger Mode (Photo-coupler) 0, 1
Memory Save/Load	9 Channels (0: factory, 1-4: feature, 5-8: mode/feature)
SIO (RS-232)	Pass through or Command
Digital Interface	GigE Vision Interface compliant to GenICam
Gain Control	0 ~ 18 dB (Manual or Auto)
Shutter Speed	1 ussec ~ 3600 sec
S/N Ratio	56 dB or better
Control Function	Brightness, Sharpness, Gamma, Auto-Exposure, Auto-gain, Auto-Shutter, (*U/B, V/R, Hue/G (digital gain))
Lens Mount	C / CS Mount
External Dimensions	40(W) x 40(H) x 79(D) mm, Approx. 180 grams
Supports	Matrox Imaging Library (MIL), LabVIEW®, and GenICam™
Includes	Software for API, SDK, and DirectShow® driver
Options	- Custom window materials for lower kV applications - Custom fiber optic diameter

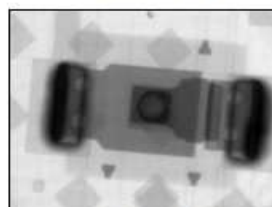
Sample Pictures



BGA X-ray Image with Short (Circled)



Bondwire X-ray Image



Capacitor X-ray Image

Ordering Information

X-Ray Camera GigE 1.3MP/Std: Standard unit camera with standard GdOS coating (balanced for resolution and max light output)

X-Ray Camera GigE 1.3MP/Option 1: Without GdOS coating (for non-x-ray applications)

X-Ray Camera GigE 1.3MP/Option 2: Custom protective input window material (e.g., aluminum, mylar)

X-Ray Camera GigE 1.3MP/Option 3: CsI scintillator

NOTE: Customer must provide the X-ray source.



11. 3D Camera Series.

3D Light Field Camera Technology



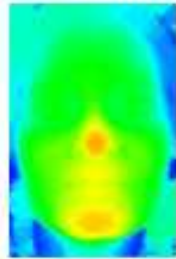
- calibration-free monocular camera
- robust & space-saving setup
- down to micron resolution
- extended depth-of-field by software re-focus
- captures fast moving objects by single shot




Micro-lens array optics

US-Pat.-No.: 2012/0050562 A1
European patent No. 2244484

Light Field Camera Technology*
3D reconstruction and software re-focus based on only one snapshot and a single-lens camera



3D multiview reconstruction



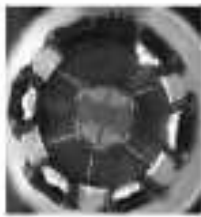
re-focus plane on eye



re-focus plane on nose

Specifications	
Lateral resolution	max 7 MP (R29)
Extended depth-of-field	max 6x of standard cameras
Frame rate	max 180 FPS (R5, Camera-Link)
Light field image sensor	max 29 Megarays CCD interline (R29)
3D depth resolution	max 200 depth layers (R29)
Fixed aperture	f/2.4, f/5.66, f/8, f/9.7, f/26, ... (we offer full customized micro lens array optics meeting your needs)
Interface	Gigabit Ethernet, Camera-Link, USB 3.0 superspeed
Lens mount	C-mount, F-mount / M 58 x 0.75 mount / Canon / Nikon
Software support	MVtec Halcon plugin interface, SDK/API programming interface for Microsoft Windows
Hardware requirements	NVIDIA GeForce GTX-680 with 2 GB GPU memory (or higher)
Software requirements	Microsoft Windows 7 (32bit), CUDA with OpenGL 4.0 and Compute Capability 2.0
Applications	Fluid flow (3D Particle tracking, PIV), Light Field R&D, machine vision, endoscopy, microscopy, plant research, visual quality inspection, surface inspection, facial recognition, life science, ...

Calibration-free and space-saving 3D cameras for system integration



Bonding wire curvature measure



Bottle detection/inspection



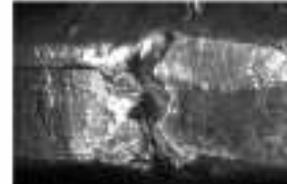
Plant growth analysis



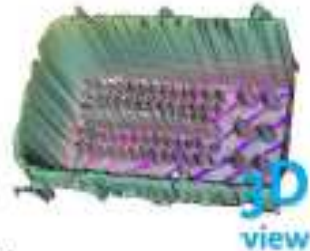
Image segmentation



Bolt quality inspection



Bolt head scratch detection



Plug pin-length inspection



Gear wheel inspection

3D light field camera	R29 (t/8, 6 FPS)	R29	R29	R29	R29
Application example	Surface inspection	Life science	Life science	Portraits	Photography
X field of view	67mm	35mm	135mm	210mm	2,5m
Y field of view	45mm	23mm	90mm	140mm	1,667m
Z field of view (depth of field)	30mm	10mm	90mm	120mm	7,05m
Working distance	0,44m	0,8m	0,6m	0,8m	10m
Z depth resolution	140µm	40µm	400µm	1,4mm	0,167m
Illumination example	Low angle	Low angle	Ring light	Ring light	Daylight
Main lens optics	100mm macro	200mm macro	100mm macro	100mm macro	140,6mm
Sample object examples	Carbon, leather, glass bubbles, contact lenses, ...	Insects, plants, screws, ...	Plants, ...	Face recognition, ...	Traffic, security monitoring, ...

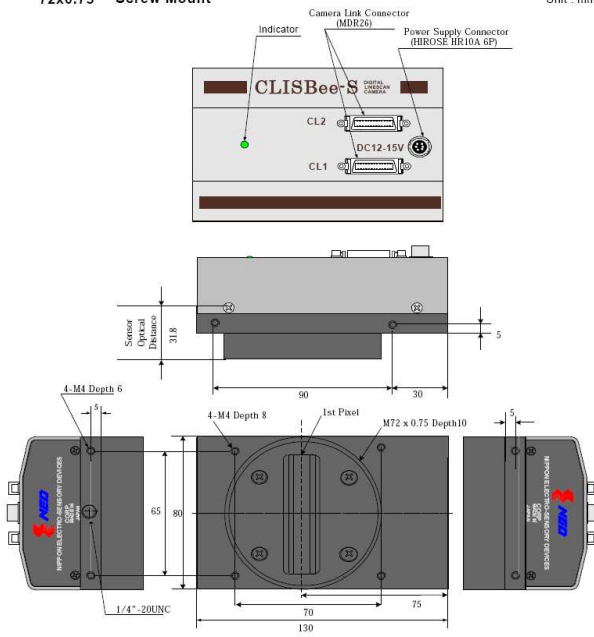
12. NED CMOS 흑백 Camera Link Linescan Camera.

A.CLISBee-S Series

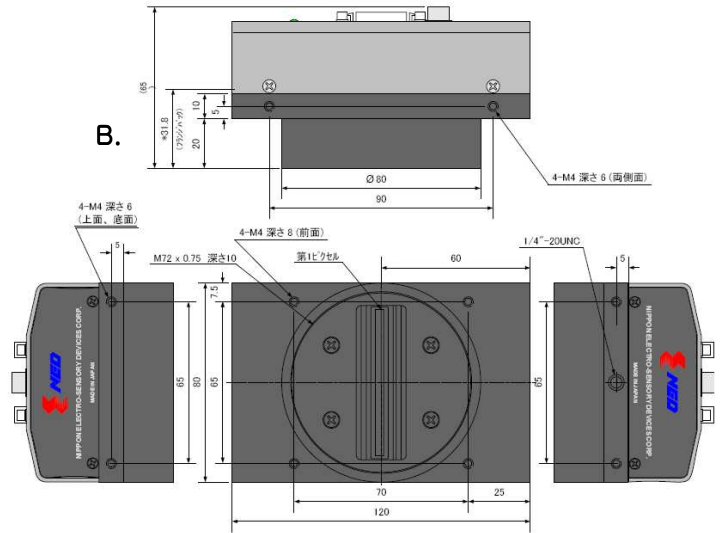
Model	화소수	Pixel size (um)	Data rate (Mhz)	Line rate (khz)	치 수	기 타
XCM16K80SAT8	16384	3.5um	640	36.33	A	8tap,full,m72 x0.75
XCM8040SAT8	8912	7um	320	33.58	B	8tap,full, m72 x 0.75
XCM8060SA	8912	7um	240	27.99	B	4tap,Medium, m72 x0.75
XCM8040SA	8912	7um	160	18.65	B	4tap,Medium, m72 x0.75
XCM8040SAT2	8912	7um	80	9.33	B	2tap,Base, m72 x0.75
XCM6060SAT4	6144	7um	240	33.58	C	4tap,Medium, F MOUNT
XCM6040SA	6144	7um	160	24.88	C	4tap,Medium, F MOUNT
XCM6040SAT4	6144	7um	160	24.88	C	4tap,Medium, F MOUNT
XCM6040SAT2	6144	7um	80	12.43	C	2tap,Base, F MOUNT
XCM4040SAT4	4096	7um	160	37.31	C	4tap,Medium, F MOUNT
XCM4040SAT2	4096	7um	80	18.66	C	2tap,Base, F MOUNT
XCM2080SAT4	2048	14um	320	125	D	4tap,Medium, C or F MOUNT
XCM2080SAT2	2048	14um	160	68	D	2tap,Base, C or F MOUNT
XCM2040SAT4	2048	14um	160	62.5	D	4tap,Medium, C or F MOUNT
XCM2040SAT2	2048	14um	80	34	D	2tap,Base, C or F MOUNT
XCM1080SAT2	1024	14um	160	125	D	2tap,Base, C or F MOUNT
XCM1040SAT2	1024	14um	80	62.5	D	2tap,Base, C or F MOUNT

Unit : mm

A.



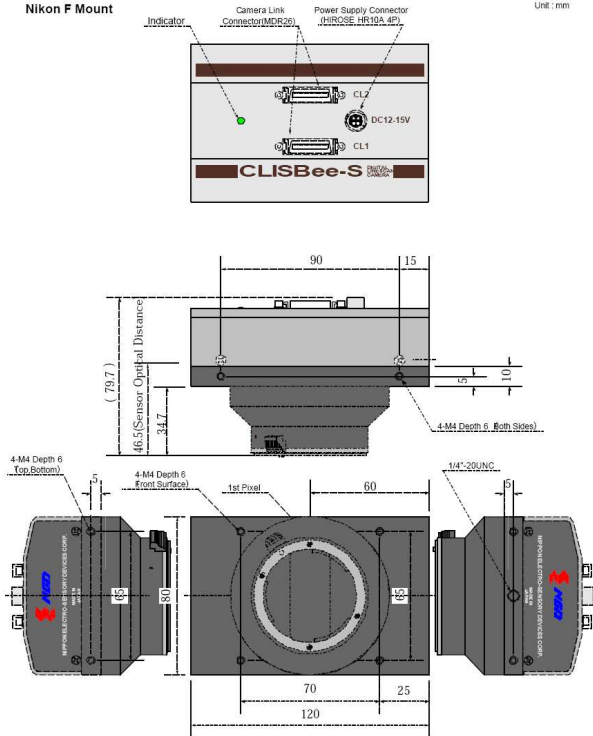
B.



C.

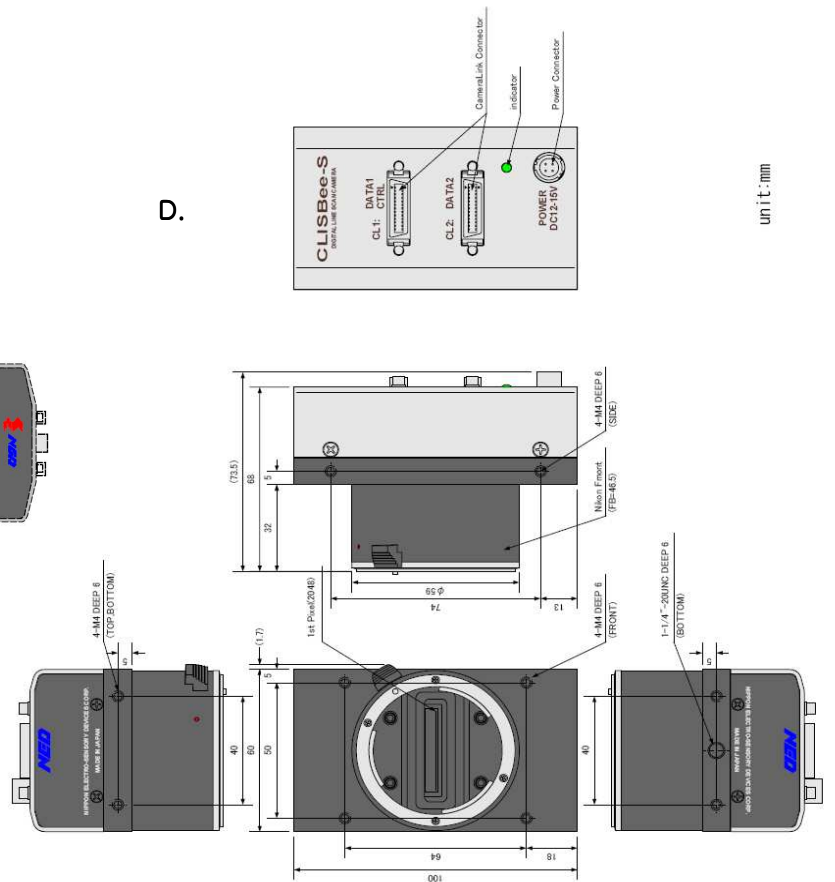
Nikon F Mount

Unit : mm



D.

unit:mm



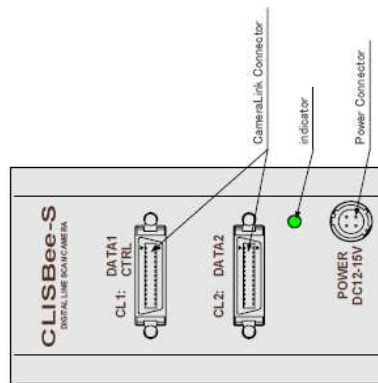
B. CMOS 흑백 CoaxPress Linescan Camera Series.

Model	해상도	Pixel size (um)	Data rate (Mhz)	Line rate (khz)	치 수 (mm)	기 타
XCM16K04GT4CXP	16384	3.5um	1600	68.97	80 X 120 X 60	4TAP, 8/10/12bit M72 X 0.75
XCM80160CXP	8192	7um	160	18.65	80 X 120 X 65	4TAP 8/10bit M72 X 0.75
XCM60160CXP	6144	7um	160	24.88	80 X 120 X 80	1TAP 8/10bit F MOUNT
XCM40160CXP	4096	7um	160	37.31	80 X 120 X 80	1TAP 8/10bit F MOUNT

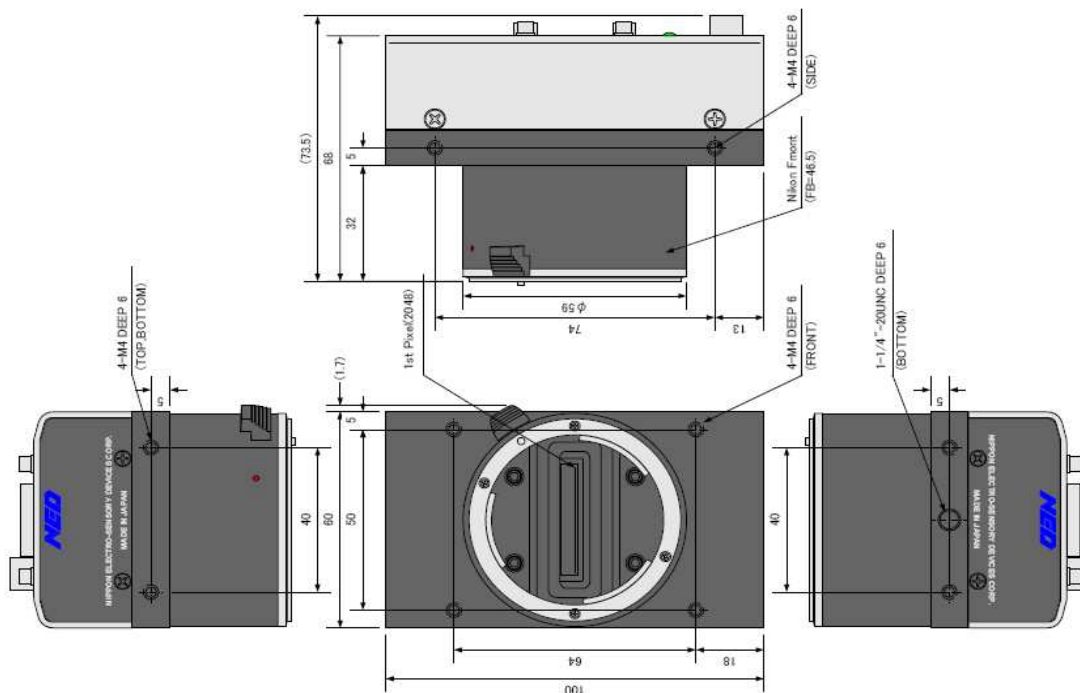
CoaxPress
GEN*i*>CAM



XCM16K04GT4CXP



unit:mm



C. GigE Vision Linescan Camera Series.

	XCM60125GIG	XCM40125GIG	XCM20125GIG	SU2025GIG	SUCL2025GIG
Resolution	6144px CMOS	4096px CMOS	2048px CMOS	2048px CCD	2098 x 3px CCD
Pixel Size	7µm	7µm	14µm	14µm	14µm
Lens Mount	F-Mount	F-Mount	F-Mount	F-Mount	F-Mount
Mono/Colour	Mono	Mono	Mono	Mono	3-Line CCD RGB
Max. Line Rate (KHz)	12.43	18.66	34	11.4	10.8
Sensitivity	70 - 785 (V/lx-s)	70 - 785 (V/lx-s)	50 - 1000 (V/lx-s)	90 - 3500 (V/lx-s)	40 - 120 (V/lx-s)
Output Format	8bit / 10 bit	8bit / 10 bit	8bit / 10 bit	8 bit / 10 bit	24 bit / 30 bit RGB
Interface	GigE Vision	GigE Vision	GigE Vision	GigE Vision	GigE Vision
Dimensions	80x120x60 mm	80x120x65 mm	60x100x73.5 mm	64x70x91.7 mm	64x70x116 mm
Weight	730g	730g	445g	410g	470g
Features	Flat field correction - Anti Blooming - Exposure Control - Test Pattern - Scan Direction Switching - Easily adjustable gain (analog/digital) & offset -CE / FCC /RoHS compliant			Remote Parameter Control - CE / FCC / RoHS Compliant	Remote Parameter Control - CE / FCC / RoHS Compliant
	GEN- <i>cl</i> -Cam Compliant				

D. CLISBee-A Series.

	XCM8040DLM Series	XCM4040DLM Series	XCM2040DLMT2	XCM2040DLC/1040DLC
Resolution	8192 x 2px	4096 x 2px	2048 x 2px	2048 x 2px / 1024 x 2px
Pixel Size	7µm	7µm	7µm	7µm
Lens Mount	M72 x 0.75	F-Mount	C-Mount / F-Mount	C-Mount / F-Mount
Data Rate(MHz)	640 / 320 / 160	320 / 160 / 80	80	40 x 3
Clock Speed	85 / 40 / 40	80 / 40 / 40	40	40
Taps	8 / 8 / 4	4 / 4 / 2	2	RGB
Max. Line Rate (KHz)	80 / 36.33 / 18.9	70 / 36.33 / 18.9	36.33	18.88 / 36.33
Sensitivity	100-1780 (V/lx-s)	100-1780 (V/lx-s)	100-1780 (V/lx-s)	60-1070 (V/lx-s)
Dynamic Range	60dB	60dB	60dB	60dB
Output Format	8 bit	8 / 10 bit	8 / 10 bit	24 bit RGB
Interface	Camera Link F / F / M	Camera Link M / M / B	Camera Link Base	Camera Link Base
Dimensions	80 x 110 x 52 mm	80 x 120 x 65 mm	60 x 60 x 35 mm	60 x 60 x 35 mm
Weight	680g	600g	170g	170g
Features	Flat field correction - Anti Blooming - Exposure Control - Test Pattern - Scan Direction Switching - Easily adjustable gain (analog/digital) & offset -CE / FCC /RoHS compliant			Dynamic RGB Line delay - Programmable Exposure Control - CE compliant - Colour matrix conversion

E. Rainbow Series.

	XCM4085TLCTB	XCM2740MLC	XCM2040DLC/1040DLC	SUCL2025T3 / SUCL2025GIG	XCM3C Series (2080/4080/6080/80T3)
Resolution	4096 x 4px	2730 x 3 px	2048 x 2px / 1024 x 2px	2098 x 3 px	2048 x 3px / 4096 x 3px / 6000 x 3px
Pixel Size	10µm	7µm	7x7 / 14x7 µm	14µm	14 / 7 / 7µm
Lens Mount	F-Mount	M72 x 0.75	C-Mount/F-Mount	F-Mount	F-Mount
Data Rate(MHz)	85 x 8	40 x 3	40 x 3	25 x 3	80 x 3
Clock Speed	85	40	40	50	80
Taps	RGBM x 2	RGB	RGB	RGB	RGB
Max. Line Rate	40 KHz	13.9 KHz	18.88 / 36.33 KHz	10.82 KHz	34 / 18.85 / 12.43 KHz
Sensitivity (V/lx-s)	18 - 580 (G)	R:18-200/G:17-190/B:12-134	60 - 1070 (1040) 30 - 530 (2040)	40 - 120	20 - 160
Dynamic Range	60dB	60dB (106dB*)	60dB		60dB (106dB*)
Output Format	64 bit RGBM	24 bit RGB	24 bit RGB	24 / 30 bit RGB	24 / 30 bit RGB
Interface	Camera Link Full	Camera Link Base	Camera Link Base	Camera Link Base / Medium / Gigabit Ethernet	Camera Link Base / Medium
Dimensions(mm)	62x100x72	80x120x65	60x60x35	64x70x116	100x100x12
Weight	400g	600g	170g	470g	900g
Features	Dynamic RGB Line Delay - Programmable Exposure Control - CE Compliant	Flat Field Correction - Programmable Exposure Control - CE Compliant	Dynamic RGB Line delay - Programmable Exposure Control - CE compliant - Colour matrix conversion	Programmable Exposure Control - Remote parameter control - CE Compliant - GEN- <i>cl</i> -Cam compliant (SUCL2025GIG)	Dynamic RGB Line delay - Programmable Exposure Control - CE compliant - Colour matrix conversion

저가형 GigE USB 카메라

**GigE
Camera**



	rs-A361-gm/gc60	rs-A1300-gm/gc60	rs-A2300-gm/gc50 NIR	rs-A5001-gm/gc14	rs-A10K-gm/gc7	rs-A14K-gc6
Resolution	752 * 480	1280 * 1024	1600 * 1200	2592 * 1944	3664 * 2748	4384 * 3288
Size of Sensor	1/3"	1/1.8"	1/1.8"	1/2.5"	1/2.3"	1/2.3"
Frame Rate (Hz)	60	60	50	14	7.5	6.3
Type	Mono/Bayer	Mono/Bayer	Mono/Bayer	Mono/Bayer	Mono/Bayer	Bayer
Lens	C mount					

**USB
Camera**



	rs-A1300-um/uc60	rs-A2300-um/uc50 NIR	rs-A5001-um/uc14	rs-A10K-um/uc15	rs-A14K-uc13
Resolution	1280 * 1024	1600 * 1200	2592 * 1944	3664 * 2748	4384 * 3288
Size of Sensor	1/1.8"	1/1.8"	1/2.5"	1/2.3"	1/2.3"
Frame Rate(Hz)	60	50	14	15	6.3
Type	Mono/Bayer	Mono/Bayer	Mono/Bayer	Mono/Bayer	Bayer
Lens	C mount				