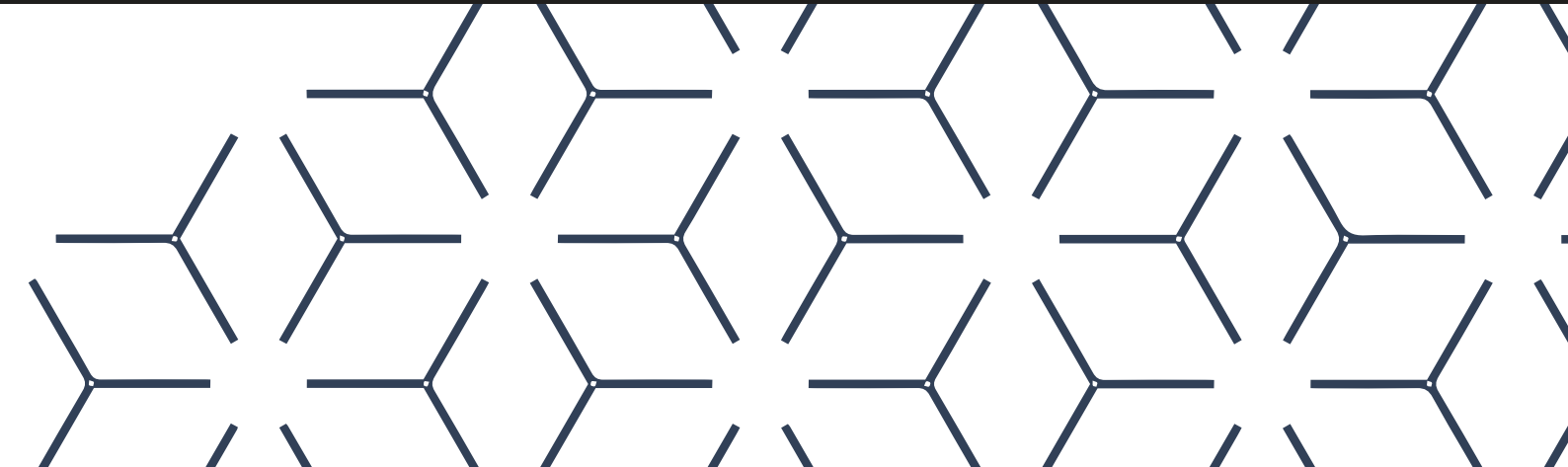


NEO



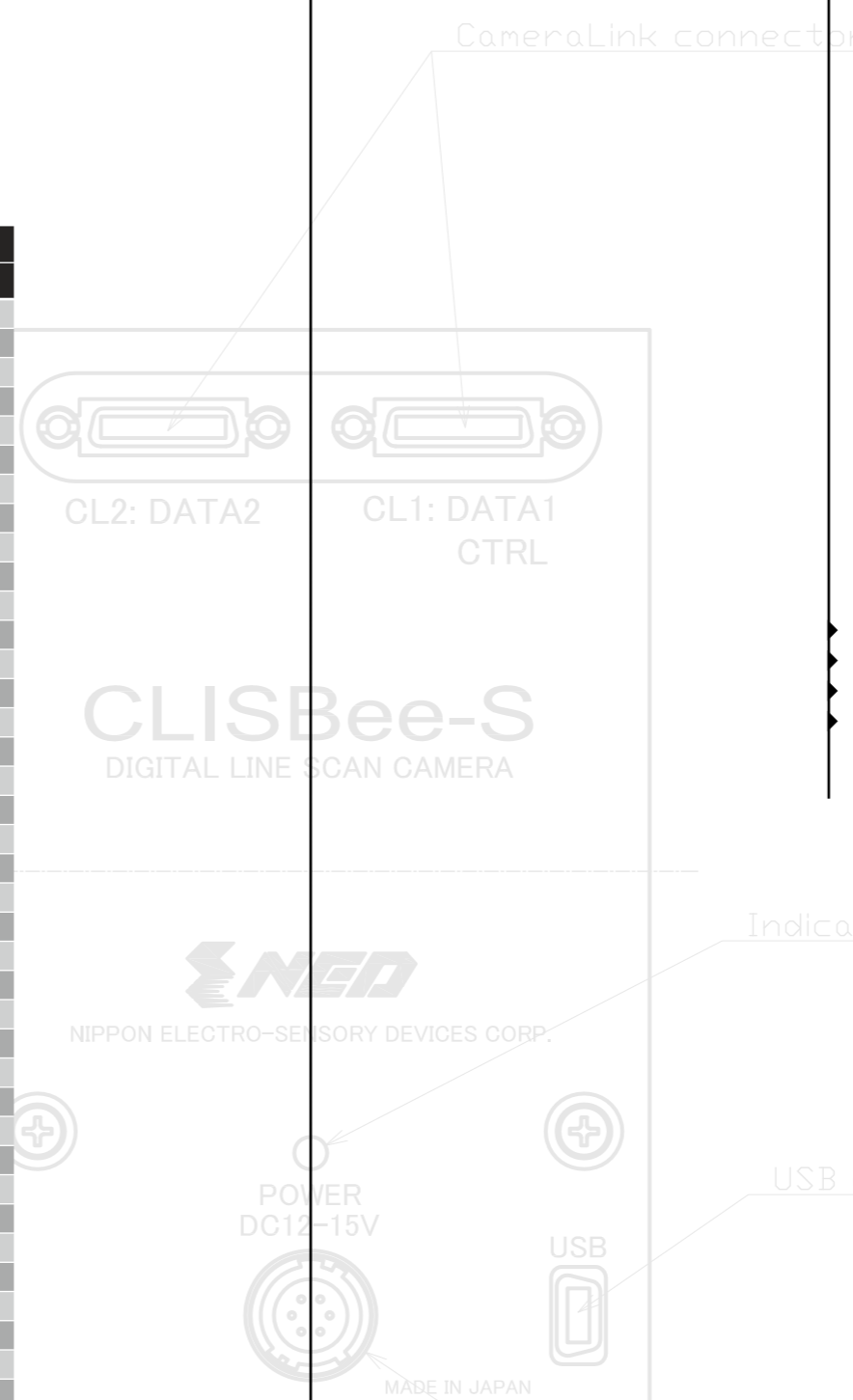
PRODUCT CATALOG

2017/18



MONOCHROME

Resolution (Pixel size)	Model*	Line Rate (kHz)				Interface				
		~19	20~39	40~69	70~	Base	Med.	Full	GigE	CXP
2k (14)	SU2020	•				•				
	SU2025	•				•				
	SU2025GIG	•							•	
	XCM20125GIG			•					•	
	XCM2040SAT4			•	•			•		
	XCM2080SAT4				•	•		•		
2k (7)	XCM20160T2CXP				•					•
	XCM2085DLMT2				•					
4k (7)	Renewal XCM4040SAT2	•				•				
	Renewal XCM4040SAT4		•				•			
	Renewal XCM40160CXP		•							•
	XCM4040DLMT4			•		•	•			
	XCM4085DLMT4				•	•	•			
	NEW XCM4085SHT4					•	•			
4k (10)	NEW XCM40170SHT2CXP				•					•
	NEW XCM40170DLMT2CXP				•					•
	NEW XCM4085TLMT2			•		•	•			
6k (7)	Renewal XCM6040SAT2	•				•				
	Renewal XCM6060SAT2	•				•				
	Renewal XCM6040SA		•				•			
	Renewal XCM6040SAT4		•				•			
	Renewal XCM6060SAT4		•				•			
	Renewal XCM60160CXP		•							•
7k (4.7)	NEW XCM6085SHT4			•			•			
	NEW XCM60255SHT2CXP				•					•
8k (7)	SUI7440	•				•				
	SUI7450T2	•				•				
	Renewal XCM8040SAT2	•				•				
	Renewal XCM8060SAT2	•				•				
	Renewal XCM8040SA	•					•			
	Renewal XCM8040SAT4	•					•			
	Renewal XCM8040SAT8		•					•		
	Renewal XCM80160CXP	•								•
	Renewal XCM8060SA		•				•			
	Renewal XCM80160T2CXP		•							•
12k (5.6)	NEW XCM8085SHT4			•			•			
	NEW XCM8085SHT8				•			•		
	NEW XCM80340SHT2CXP				•					•
	XCM8085DLMT8				•	•	•			
16k (3.5)	NEW XCM12K485TLMT4CXP				•					•
	XCM16K80SAT8		•					•		
	XCM16K04GT4CXP			•					•	



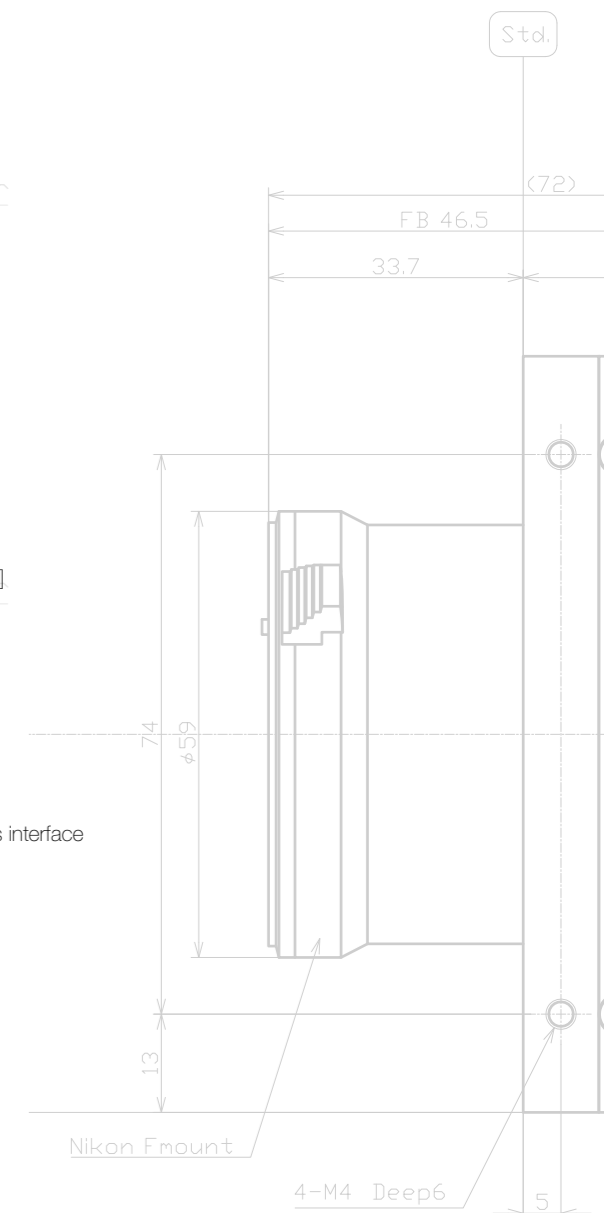
COMPANY PROFILE

Nippon Electro-Sensory Devices Corporation
 Founded 1975
 ISO 9001, 14001 certified
 6 offices in Japan

- Development, design, manufacture and sales of:
 - High speed line scan cameras
 - Controllers for cameras, image processing and grabber boards
 - Systems for image processing and image processing software
 - Other products for optronics and mechatronics applications

NED HISTORY

- 1975 NIPPON ELECS Devices Corp. formed
- 1985 First development of Line Scan Cameras [Analog RS422 CCD S Series · H Series]
- 1986 Line scan camera controller development [MEGA3]
- 1990 Color line scan camera development [CL series 0.5K · 1.7K]
- 1991 Development of 3CCD Colour Line Camera
- 1996 Development of high speed frame grabber boards and wafer inspection devices
- 2005 In-house development of high speed CLISBee CMOS line sensors begins
- 2010 Member of the CoaXPress Consortium developing the next-generation CoaXPress interface
- 2011 Release of low cost SU series
- 2013 Release of first CoaXPress line scan camera
- 2014 Release of first CCD and CMOS GigE vision camera
- 2015 Release of CLISBee-A series using multi line sensors
- 2017 Release of high speed Ryugan series



COLOR CAMERAS

Resolution (Pixel size)	Model*	Line Rate (kHz)			Interface					
		~19	20~39	40~69	Base	Med.	Full	GigE	CXP	
1k (7)	XCM1040DLCT3		•		•					
2k (7)	XCM2085DLCT3		•		•					
2k (14)	SUCL2025T3	•			•	•				
	SUCL2025GIG	•						•		
4k (7)	XCM3C2080T6			•	•	•	•			
	XCM3C4080T3	•			•	•				
4k (10)	XCM4085TLCT6			•	•	•	•			
	NEW XCM40255TLCT2CXP			•						•
7k (10)	NEW NUCL7370AT6	•			•	•	•	•		
12k (5.6)	XCM12K85TLCT6	•				•	•			

*Model numbers are in the format XCM[p]0[c]OSAT[t], where p=Pixels (x1000), c=Clock, t=Taps. So XCM8040SAT8 is an 8K, 40MHz x 8-Taps camera (320MHz)

CLISBee-A SERIES

A major renewal is taking place this year. NED has changed sensor in several cameras from the CLISBee-S series, turning them into part of the NED CLISBee-A series. The renewed cameras keep the same technical specifications as their predecessors with exception of a few minor changes.

The back of the camera is getting a new sleek series logo and the “roof shape” will be substituted with a square type shape.

Consult the updated manual or inquire with your NED sales representative for more information. The updated cameras will replace current CLISBee-S cameras starting from April 2017, and expect to be complete before end of 2017.



WHAT'S NOW


Ryugan SERIES

NED is presenting a whole new series of high speed line scan cameras dubbed Ryugan, meaning “dragon eye” in Japanese.

Having all the high qualities as NED’s standard cameras, the Ryugan series add greater speeds for high demanding applications. This new series will be a welcome addition to NED’s already broad range of low to mid-range cameras.

The initial release of Ryugan series cameras will consist of 4 Camera Link and 3 CoaXPress cameras ranging from 4-8k pixels and scan rates up to 76.5 kHz.

Model	Resolution	Pixel size	Line Rate (kHz)	Interface
XCM4085SHT4	4k	7	76.50	
XCM6085SHT4	6k		47.57	
XCM8085SHT4	8k		41.40	
XCM8085SHT8			76.50	

Model	Resolution	Pixel size	Line Rate (kHz)	Interface
XCM40170SHT2CXP	4k	7	76.50	
XCM60255SHT2CXP	6k			
XCM80340SHT2CXP	8k			

Interface	Series	Model	Resolution (px)	Pixel Size (µm)	Mono or Color	Lens Mount	Data Rate (MHz)		Clock Speed	Taps	Lanes	Max. Line Rate (kHz)	Sensitivity (V/lx-s)	Output Format	Interface	Power Over	Dimensions (mm)	Weight (g)
CAMERA Link	SU	SU2020	2048	14	Mono	F-mount	20		20	1	-	9.1	90	8 10 12	Camera Link B	-	64x70x91.7	410
		SU2025	2048	14	Mono	F-mount	25		25	1	-	11.4	90	8 10 12	Camera Link B	-	64x70x91.7	410
		SUJ7440	7400	4.7	Mono	F-mount	40		40	1	-	5.2	120	8 10 12	Camera Link B	-	64x70x90.3	380
		SUJ7450T2	7400	4.7	Mono	F-mount	100		50	2	-	12.5	67	8 10 12	Camera Link B	-	64x70x90.3	380
	CLISBee-S	XCM2040SAT4	2048	14	Mono	C F-mount	160		40	4	-	62.5	50-1000	8 10	Camera Link M	-	60x100x44.5	360
		XCM2080SAT4	2048	14	Mono	C F-mount	320		80	4	-	125	50-1000	8 10	Camera Link B M	-	60x100x73.5	435
		XCM16K80SAT8	16384	3.5	Mono	M72 x 0.75	640		80	8	-	36.33	45.2-809	8	Camera Link F	-	80x130x67.2	680
	CLISBee-A	XCM2085DLMT2	2048 x 2	7	Mono	C F-mount	80 170		40 85	1 2	-	75.69	100-970	8 10	Camera Link B	-	60x60x35	170
		Renewal XCM4040SAT2	4096	7	Mono	F-mount	80		40	2	-	18.66	70-785	8 10	Camera Link B	-	80x120x80	570
		Renewal XCM4040SAT4	4096	7	Mono	F-mount	160		40	4	-	33.58	70-785	8 10	Camera Link M	-	80x120x80	570
		XCM4040DLMT4	4096 x 2	7	Mono	F-mount	80 160		40	2 4	-	35.94	125-2225	8 10	Camera Link B M	-	60x100x35	300
		XCM4085DLMT4	4096 x 2	7	Mono	F-mount	170 340		85	2 4	-	76.50	125-2225	8 10	Camera Link B M	-	60x100x35	300
		NEW XCM4085TLMT2	4096 x 4	10	Mono	F-mount	85 170		85	1 2	-	40	280-840	8 10	Camera Link B M	-	60x100x72	400
		Renewal XCM6040SAT2	6144	7	Mono	F-mount	80		40	2	-	12.44	70-785	8 10	Camera Link B	-	80x120x80	580
		Renewal XCM6060SAT2	6144	7	Mono	F-mount	120		60	2	-	18.66	70-785	8 10	Camera Link B	-	80x120x80	580
		Renewal XCM6040SA	6144	7	Mono	F-mount	160		40	4	-	24.88	70-785	8 10	Camera Link M	-	80x120x80	580
		Renewal XCM6040SAT4	6144	7	Mono	F-mount	160		40	4	-	24.88	70-785	8 10	Camera Link M	-	80x120x80	580
		Renewal XCM6060SAT4	6144	7	Mono	F-mount	240		60	4	-	33.58	70-785	8 10	Camera Link M	-	80x120x80	580
		Renewal XCM8040SAT2	8192	7	Mono	M72 x 0.75	80		40	2	-	9.33	70-785	8 10	Camera Link B	-	80x120x65	600
Renewal XCM8060SAT2		8192	7	Mono	M72 x 0.75	120		60	2	-	13.99	70-785	8 10	Camera Link B	-	80x120x65	600	
Renewal XCM8040SA		8192	7	Mono	M72 x 0.75	160		40	4	-	18.65	70-785	8 10	Camera Link M	-	80x120x65	600	
Renewal XCM8040SAT4		8192	7	Mono	M72 x 0.75	160		40	4	-	18.65	70-785	8 10	Camera Link M	-	80x120x65	600	
Renewal XCM8040SAT8	8192	7	Mono	M72 x 0.75	320		40	8	-	33.58	70-785	8 10	Camera Link F	-	80x120x65	600		
Renewal XCM8060SA	8192	7	Mono	M72 x 0.75	240		60	4	-	27.99	70-785	8 10	Camera Link M	-	80x120x65	600		
XCM8085DLMT8	8192 x 2	7	Mono	M72 x 0.75	170 340 680		40 85	2 4 8	-	77.55	125-2225	8 10	Camera Link B M F	-	80x110x62	630		
Ryugan	NEW XCM4085SHT4	4096	7	Mono	F-mount	340		85	4	-	76.50	100	8 10	Camera Link M	-	60x100x35	300	
	NEW XCM6085SHT4	6144	7	Mono	F-mount	340		85	4	-	47.57	100	8 10	Camera Link M	-	60x100x35	300	
	NEW XCM8085SHT4	8192	7	Mono	M72 x 0.75	340		85	4	-	41.40	100	8 10	Camera Link M	-	80x120x79.7	600	
	NEW XCM8085SHT8	8192	7	Mono	M72 x 0.75	680		85	8	-	76.50	100	8	Camera Link F	-	80x120x79.7	600	
Rainbow	XCM1040DLCT3	1024 x 2	14	Color	C F-mount	85 x 3		40	RGB	-	35.84	60-582	24 bit RGB	Camera Link B	-	60x60x35	170	
	XCM2085DLCT3	2048 x 2	7	Color	C F-mount	85 x 3		40 85	RGB	-	39.55	60-582	24 bit RGB	Camera Link B	-	60x60x35	170	
	SUCL2025T3	2098 x 3	14	Color	F-mount	25 x 3		50	RGB	-	10.82	20-240	24 30 bit RGB	Camera Link B M	-	64x70x116	470	
	XCM3C2080T6	2048 x 3	14	Color	F-mount	80 x 6		80	RGB	-	45.4	20-200	24 30 bit RGB	Camera Link B M F	-	100x100x123	1100	
	XCM3C4080T3	4096 x 3	7	Color	F-mount	80 x 3		80	RGB	-	18.65	40-320	24 30 bit RGB	Camera Link B M	-	100x100x123	1100	
	XCM4085TLCT6	4096 x 3	10	Color	F-mount	85 x 6		85	RGB x 1 2	-	40	100-300	24 30 bit RGB	Camera Link B M F	-	62x100x72	400	
	NUCLi7370AT6	7300 x 3 (CCD)	10	Color	M84.5	140 x 3		70	RGB x 1 2	-	8.7 17.5	130-325	24 30 bit RGB	Camera Link B M F	-	108x150x60.1	800	
XCM12K85TLCT6	12800 x 3	5.6	Color	M84.5	170 x 3		20 40 60 85	RGB x 1 2	-	12.98	20	24 30 bit RGB	Camera Link M F	-	104x120x73.6	945		
CoaxPress	CLISBee-S	XCM20160T2CXP	2048	14	Mono	F-mount	320		-	-	1 2	68 125	50-1000	8 10	CoaXPress CXP-2	-	60x100x85	400
		XCM16K04GT4CXP	16384	3.5	Mono	M72 x 0.75	1280		-	-	4	68.97	45.2-809	8 10	CoaXPress CXP-5	-	80x130x71.1	780
	CLISBee-A	Renewal XCM40160CXP	4096	7	Mono	F-mount	160		-	-	1	33.58	70-785	8 10	CoaXPress CXP-2	-	80x120x91	730
		NEW XCM40170DLMT2CXP	4096 x 2	7	Mono	F-mount	340		-	-	1 2	77.56	100	8 10	CoaXPress CXP-2	-	60x100x36	340
		Renewal XCM60160CXP	6144	7	Mono	F-mount	160		-	-	1	24.88	70-785	8 10	CoaXPress CXP-2	-	80x120x91	730
		Renewal XCM80160CXP	8192	7	Mono	M72 x 0.75	160		-	-	1	18.65	70-785	8 10	CoaXPress CXP-2	-	80x120x77	600
		Renewal XCM80160T2CXP	8192	7	Mono	M72 x 0.75	320		-	-	2	33.58	70-785	8 10	CoaXPress CXP-2	-	80x120x77	600
	NEW XCM12K485TLMT4CXP	12800 x 4	5.6	Mono	M84.5	1940		-	-	4	151.5	TBD	8	CoaXPress CXP-6	-	104x120x73.6	950	
	Ryugan	NEW XCM40170SHT2CXP	4096	7	Mono	F-mount	340		-	-	2	76.50	100	8 10	CoaXPress CXP-5	Power over CXP	80x120xTBD	TBD
		NEW XCM60255SHT2CXP	6144	7	Mono	F-mount	510		-	-	2	76.50	100	8 10	CoaXPress CXP-5	Power over CXP	80x120xTBD	TBD
NEW XCM80340SHT2CXP		8192	7	Mono	M72 x 0.75	680		-	-	2	76.50	100	8 10	CoaXPress CXP-5	Power over CXP	80x120xTBD	TBD	
Rainbow	NEW XCM40255TLCT2CXP	4096 x 3	10	Color	F-mount	255 x 1 2		-	-	1 2	40	100-300	24 30 bit RGB	CoaXPress CXP-3 5	-	62x100x90	400	
GIG VISION	SU	SU2025GIG	2048	14	Mono	F-mount	25		-	-	-	53.1	50-1000	8 10	GigE Vision	-	60x100x81.4	450
	CLISBee-S	XCM20125GIG	2048	14	Mono	F-mount	125		-	-	-	11.4	90-3500	8 10 12	GigE Vision	-	64x70x118	450
	Rainbow	SUCL2025GIG	2098 x 3	14	Color	F-mount	25		-	-	-	10.8	40-120	24 30 RGB	GigE Vision	-	64x70x115.3	460

CLISBee-A SERIES

NED's CLISBee-A series offers high sensitivity, high speed and low noise cameras to a reasonable cost. Having implemented new functions that utilizes the advantages of multi-line sensors makes it possible for you to find the perfect model suitable for your project!

Model	Resolution	Pixel Size	Line Rate (kHz)	Interface
XCM2085DLMT2	2048 x 2	7	75.69	CAMERA Link
XCM4040SAT2	4096		18.65	
XCM4040SAT4			33.58	
XCM4040DLMT4	4096 x 2		35.94	
XCM4085DLMT4			76.50	
XCM4085TLMT2	4096 x 4	10	40	
XCM6040SAT2	6144	7	12.44	
XCM6060SAT2			18.66	
XCM6040SA			24.88	
XCM6040SAT4			33.58	
XCM6060SAT4			33.58	
XCM8040SAT2	8192	7	9.33	
XCM8060SAT2			13.99	
XCM8040SA			18.65	
XCM8040SAT4			33.58	
XCM8040SAT8			33.58	
XCM8060SA			27.99	
XCM8085DLMT8	8192 x 2		77.55	
XCM40160CXP	4096	7	33.58	Coax Press
XCM40170DLMT2CXP	4096 x 2		77.56	
XCM60160CXP	6144		24.88	
XCM80160CXP	8192		18.65	
XCM80160T2CXP			33.58	
XCM12K485TLMT4CXP	12800 x 4	5.6	151.5	



Model	Resolution	Pixel Size	Line Rate (kHz)	Interface
SU2020	2048	14	9.1	CAMERA Link
SU2025			11.4	
SUI7440	7400	4.7	5.2	
SUI7450T2			12.5	
SU2025GIG	2048	14	53.1	GiGE

SU SERIES

The SU series consist of NED's lowest priced cameras using COD sensors for price sensitive applications.

Model	Resolution	Pixel Size	Line Rate (kHz)	Interface
XCM2040SAT4	2048	14	62.5	CAMERA Link
XCM2080SAT4			125	
XCM16K80SAT8	16384	3.5	36.33	
XCM20160T2CXP	2048	14	68 125	Coax Press
XCM16K04GT4CXP	16384	3.5	68.97	
XCM20125GIG	2048	14	11.4	GiGE



CLISBee-S

NED's in-house designed CMOS sensor provides the base for our CLISBee-S lineup of high-performance cameras. Designed to be low noise, high sensitivity and high speed to ensure you the highest quality images possible.






Ryugan SERIES

NED's brand new lineup of high-speed cameras from NED to meet the requirements for high demanding applications. The new Ryugan series offers 4 new Camera Link and 3 new CoaXPRESS cameras with line rates up to 76.50 kHz.

Model	Resolution	Pixel Size	Line Rate (kHz)	Interface
XCM4085SHT4	4096	7	76.50	
XCM6085SHT4	6144		47.57	
XCM8085SHT4	8192		41.40	
XCM8085SHT8			76.50	
XCM40170SHT2CXP	4096	7	76.50	
XCM60255SHT2CXP	6144			
XCM80340SHT2CXP	8192			

RAINBOW SERIES

Add color to your solution with NED's Rainbow series. Our lineup gives you a wide range of options. Dual line and 3-line sensor models offer great value for money. Where high precision color is a must, we have the 3CMOS (prism-based XCM3C series) camera incorporating NED's highly-regarded proprietary CLISBee CMOS sensor.

Model	Resolution	Pixel Size	Line Rate (kHz)	Interface
XCM1040DLCT3	1024 x 2	7	35.84	
XCM2085DLCT3	2048 x 2		39.55	
SUCL2025T3	2098 x 3	14	10.82	
XCM3C2080T6	2048 x 3		45.4	
XCM3C4080T3	4096 x 3	7	18.65	
XCM4085TLCT6		10	40	
NUCL7370AT6	7300 x 3 (CCD)	10	8.7 17.5	
XCM12K85TLCT6	12800 x 3	5.6	12.98	 
XCM40255TLCT2CXP	4096 x 3	10	40	
SUCL2025GIG	2098 x 3	14	10.8	



DISTRIBUTORS

ASIA PACIFIC

China	Daitron (Shanghai) Co.,Ltd. (www.daitron.com.cn) Digi-Array FA System (Shanghai) Co.,Ltd. (www.digi-array.com)
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