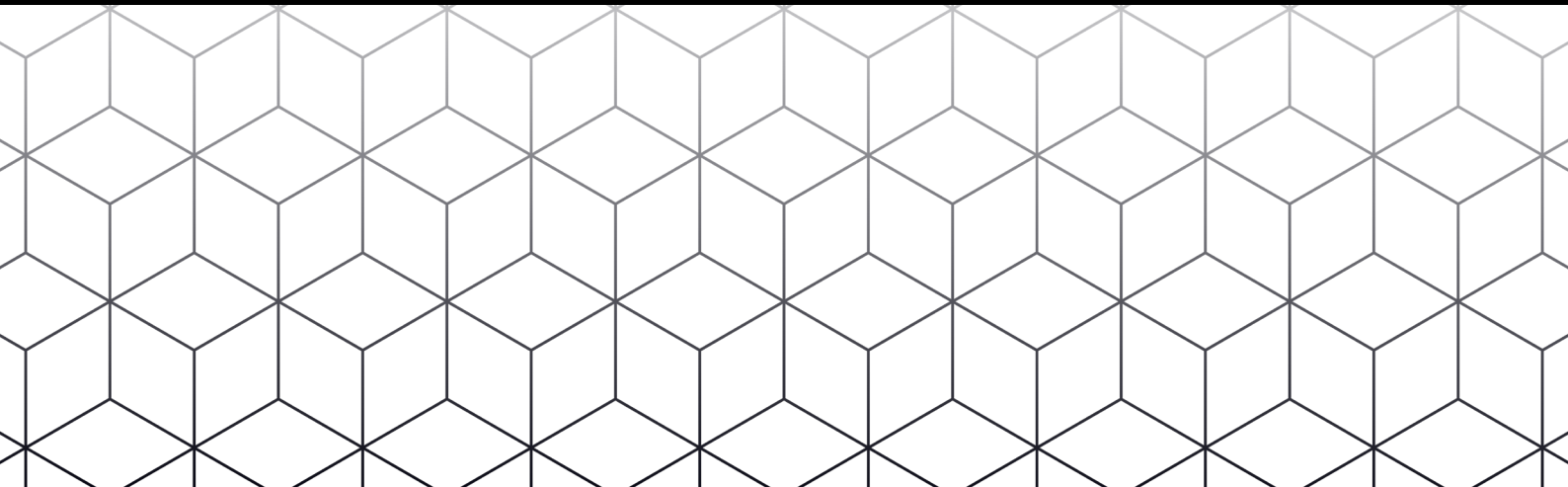




PRODUCT CATALOG

2024/25



MONOCHROME

Resolution (Pixel size)		Line Rate (kHz)				Interface					
		~19	20~39	40~	70~	Base	Med.	Full	Deca	GigE	CXP
2K(14)	SU2020	•				•					
	SU2025	•				•					
	SU2025GIG	•								•	
	RMSL2K53GE			•						•	
	RMSL2K125CL				•	•	•	•	•		
2K(7)	XCM2085DLMT2				•	•					
4K(7)	RMSL4K25GE		•							•	
	XCM4040DLMT4			•		•	•				
	XCM4085DLMT4				•	•	•				
	RMSL4K76CL				•	•	•				
	RMSL4K76CP				•						•
	RMSL4K100CL				•	•	•	•	•		
	RMSL4K100CP				•						•
6K(7)	RMSL6K17GE	•								•	
	RMSL6K52CL			•		•	•				
	RMSL6K76CP				•						•
7K(4.7)	SUI7440	•				•					
	SUI7450T2	•				•					
8K(3.5)	RMSL8K39CL		•			•	•				
8K(7)	RMDL8K83CP NEW				•						•
	RMSL8K12GE	•								•	
	RMSL8K76CL				•	•	•	•	•		
	RMSL8K76CP				•						•
	RMSL8K100CL NEW				•	•	•	•	•		
	RMSL8K100CP ¹ NEW				•						•
	XCM8085DLMAT8* NEW				•	•	•	•			
16K(3.5)	XCM16K80SAT8		•					•			
	RMSL16K76CP NEW				•						•

COLOR

Resolution (Pixel size)		Line Rate (kHz)				Interface					
		~19	20~39	40~69	70~	Base	Med.	Full	GigE	CXP	
2K(7)	XCM2085DLCT3		•			•					
2K(14)	RCDL2K20CL		•			•					
4K(7)	RCDL4K8GE	•								•	
	RC3C4K60CL NEW			•		•	•	•			
4K(10)	NUCLi4KA	•				•	•				
	XCM4085TLCT6			•		•	•	•			
7K(10)	NUCLi7370AT6	•				•	•	•			
8K(7)	RBDL8K83CP ¹ NEW				•						•
	RCDL8K70CP ¹ NEW				•						•

*Specifications subject to change ¹To be released

WHAT'S NEW

NEW RYUGAN CAMERAS

- High speed 8K 100kHz Camera Link and CoaXPress models.
- New 3CMOS 4K 60kHz color model with advanced CMOS sensor.
- Two new high-speed 8K color models coming soon.
- The new Ryugan series 16K CXP model has been renewed.




Model	Resolution	Pixel size	Line Rate (kHz)	Features
RMSL8K100CL	8192	7	100	<ul style="list-style-type: none"> • New models using new CMOS sensors are being released one after another. • Excellent noise control and output linearity • There is no black level fluctuation due to the amount of incident light • Adjacent pixel output difference is small • High color accuracy to distinguish subtle color variations (RC3C4K60CL)
RMSL8K100CP ¹	8192	7	100	
RC3C4K60CL	4096	7	60	

Model	Resolution	Pixel size	Line Rate (kHz)	Features
RCDL8K70CP ¹	8192x2	7	70	<ul style="list-style-type: none"> • New monochrome/color model utilizing 8K dual line sensor • Equipped with gamma correction and noise filter functions • Line delay that allows fine adjustment between lines has been expanded to ±4 • Auto white balance is possible using the output method unique to NED. • Ryugan 16K model completely renewed
RBDL8K83CP ¹	8192x2	7	83	
RMDL8K83CP	8192x2	7	83	
RMSL16K76CP	16384	3.5	76	

MODEL NAMING CONVENTION

Ryugan series	R	M	SL	8K	76	CL
RMSL8K76CL	Ryugan	M=Mono C=Color B=Bayre Color	SL=Single line DL=Dual line 3C=3CMOS	Pixels (x1024)	Line rate (kHz)	CL=Camera Link CP=CoaXPress GE=GigE Vision

*Specifications subject to change ¹To be released

Interface	Series	Model	Resolution (px)	Pixel Size (μm)	Mono or Color	Lens Mount	Date Rate (MHz)	Clock Speed	Taps	Lanes	Max. Line Rate (kHz)	Sensitivity (V/lx*s)	Bit Depth	Interface	Power Over	Dimensions (mm)	Weight(g)
	Ryugan	RCDL2K20CL	2048	14× 7	Color	F-mount	45 × 3	40	RGB	-	20	60	24 bit RGB	Base	-	60 × 100 × 76	380
		RMSL2K125CL	2048	14	Mono	C F-mount	320	40 80	2 4 8	-	125.00	90	8 10	B M F D	-	60 × 100 × 74	450
		RMSL4K76CL	4096	7	Mono	F-mount	340	40 60 85	2 4	-	76.92	100	8 10	B M	-	60 × 100 × 70	380
		RMSL4K100CL	4096	7	Mono	F-mount	640	40 80	2 4 8	-	100.00	75	8 10	B M F D	-	60 × 100 × 74	450
		RMSL6K52CL	6144	7	Mono	F-mount	340	40 60 85	2 4	-	52.63	100	8 10	B M	-	60 × 100 × 70	380
		RMSL8K39CL	8192	3.5	Mono	F-mount	340	40 60 80 85	2 4	-	39.06	50	8 10	B M	-	60 × 100 × 70	380
		RMSL8K76CL	8192	7	Mono	M72 × 0.75	680	40 60 85	2 4 8	-	76.92	100	8 10	B M F D	-	80 × 120 × 65	600
		RMSL8K100CL NEW	8192	7	Mono	M72 × 0.75	850	40 70 80 85	2 4 8 10	-	100	82	8 10	B M F D	-	80 × 100 × 38	450
CLISBee-A	XCM2085DLCT3	2048 × 2	7	Color	C F-mount	85 × 3	40 85	RGB	-	39.55	60	24 bit RGB	Base	-	60 × 60 × 49	170	
	XCM2085DLMT2	2048 × 2	7	Mono	C F-mount	80 170	40 85	1 2	-	75.69	100	8 10	Base	-	60 × 60 × 49	170	
	XCM4040DLMT4	4096 × 2	7	Mono	F-mount	80 160	40	2 4	-	35.94	125	8 10	B M	-	60 × 100 × 76	400	
	XCM4085DLMT4	4096 × 2	7	Mono	F-mount	170 340	85	2 4	-	76.50	125	8 10	B M	-	60 × 100 × 76	400	
	XCM8085DLMAT8* NEW	8192 × 2	7	Mono	M72 × 0.75	170 340 680	40 85	2 4 8	-	77.55	125	8 10	B M F	-	80 × 120 × 64	675	
	XCM16K80SAT8	16384	3.5	Mono	M72 × 0.75	640	80	8	-	36.33	45.2	8	Full	-	80 × 130 × 67	680	
SU(CCD)	SU2020 (CCD)	2048	14	Mono	F-mount	20	20	1	-	9.10	90	8 10 12	Base	-	64 × 70 × 92	410	
	SU2025 (CCD)	2048	14	Mono	F-mount	25	25	1	-	11.40	90	8 10 12	Base	-	64 × 70 × 92	410	
	SUI7440 (CCD)	7400	4.7	Mono	F-mount	40	40	1	-	5.20	120	8 10 12	Base	-	64 × 70 × 90	380	
	SUI7450T2 (CCD)	7400	4.7	Mono	F-mount	100	50	2	-	12.50	67	8 10 12	Base	-	64 × 70 × 90	380	
Rainbow	NUCLi4KA (CCD)	4096 × 3	10	Color	F-mount	80 × 3	80	RGB	-	17.70	130	24 30 bit RGB	B M	-	150 × 100 × 70	900	
	XCM4085TLCT6	4096 × 3	10	Color	F-mount	170 × 3	85	RGB × 1 2	-	40.00	100	24 30 bit RGB	B M F	-	62 × 100 × 72	400	
	NUCLi7370AT6 (CCD)	7300 × 3	10	Color	M84.5	140 × 3	70	RGB × 1 2	-	17.50	130	24 30 bit RGB	B M F	-	108 × 150 × 60	800	
	RC3C4K60CL NEW	4096 × 3	7	Color	F-mount	850	40 60 80 85	RGB × 1 2	-	60	40	80 bit RGB	B M F D	-	90 × 90 × 100	1100	
	Ryugan	RMSL4K76CP	4096	7	Mono	F-mount	340	-	-	1 2	76.92	100	8 10	CXP-3 5	Pwr over CXP	80 × 120 × 86	600
		RMSL4K100CP	4096	7	Mono	F-mount	409	-	-	1 2	100.00	75	8 10	CXP-3 6	-	60 × 100 × 84	450
		RMSL6K76CP	6144	7	Mono	F-mount	510	-	-	1 2	76.92	100	8 10	CXP-3 5	Pwr over CXP	80 × 120 × 86	600
		RBDL8K83CP ¹ NEW	8192 × 2	7	Color	M72 × 0.75	1408	-	-	1 2 4	83	40	8 10	CXP-3 6	Pwr over CXP	80 × 120 × 64	675
		RCDL8K70CP ¹ NEW	8192 × 2	7	Color	M72 × 0.75	1408	-	-	1 2 4	70	40	8 10	CXP-3 6	Pwr over CXP	80 × 120 × 64	675
		RMDL8K83CP NEW	8192 × 2	7	Mono	M72 × 0.75	1408	-	-	1 2 4	83	100	8 10	CXP-3 6	Pwr over CXP	80 × 120 × 64	675
		RMSL8K76CP	8192	7	Mono	M72 × 0.75	680	-	-	1 2	76.92	100	8 10	CXP-3 5	Pwr over CXP	80 × 120 × 72	610
		RMSL8K100CP ¹ NEW	8192	7	Mono	M72 × 0.75	850	-	-	1 2	100	82	8 10	TBD	Pwr over CXP	80 × 100 × 38	455
RMSL16K76CP NEW	16384	3.5	Mono	M72 × 0.75	1360	-	-	1 2 4	76	50	8 10	CXP-3 5	Pwr over CXP	80 × 120 × 64	675		
	Ryugan	RMSL2K53GE	2048	14	Mono	F-mount	125	-	-	-	53.10	100	8 10	GigE Vision	-	60 × 100 × 83	455
		RCDL4K8GE	4096 × 2	7	Color	F-mount	125	-	-	-	8.00	100	8	GigE Vision	-	60 × 100 × 83	455
		RMSL4K25GE	4096	7	Mono	F-mount	125	-	-	-	25.50	100	8 10	GigE Vision	-	60 × 100 × 83	455
		RMSL6K17GE	6144	7	Mono	F-mount	125	-	-	-	17.80	100	8 10	GigE Vision	-	60 × 100 × 83	460
		RMSL8K12GE	8192	7	Mono	M72 × 0.75	125	-	-	-	12.80	100	8 10	GigE Vision	-	80 × 120 × 69	720
SU(CCD)	SU2025GIG (CCD)	2048	14	Mono	F-mount	25	-	-	-	11.40	50	8 10	GigE Vision	-	64 × 70 × 118	450	

RYUGAN

Ryugan ("dragon eye" in Japanese) is a new series of high speed line scan cameras from NED.

Having all the high qualities as NED's standard cameras, the Ryugan series add greater speeds for high demanding applications.

New models are constantly added to the Ryugan series and it now includes five GigE models.

Model	Resolution	Pixel size	Line Rate (kHz)	Interface
RCDL2K20CL	2048	14 × 7	20	CAMERA Link
RMSL2K125CL	2048	14	125.00	
RMSL4K76CL	4096	7	76.92	
RMSL4K100CL			100.00	
RMSL6K52CL	6144		52.63	
RMSL8K39CL	8192	3.5	39.06	CoaXPress
RMSL8K76CL		7	76.92	
RMSL8K100CL NEW	8192	7	100	
RMSL4K76CP	4096	7	76.92	
RMSL4K100CP			100.00	
RMSL6K76CP	6144		76.92	
RMSL8K76CP	8192		76.92	
RMSL8K100CP ¹ NEW	8192		100	
RBDL8K83CP ¹ NEW	8192 × 2		83	
RCDL8K70CP ¹ NEW	8192 × 2		70	
RMDL8K83CP NEW	8192 × 2		83	
RMSL16K76CP NEW	16384	3.5	76	GiGE VISION
RMSL2K53GE	2048	14	53.10	
RCDL4K8GE	4096 × 2	7	8.00	
RMSL4K25GE	4096		25.50	
RMSL6K17GE	6144	7	17.80	
RMSL8K12GE	8192		12.80	

Model	Resolution	Pixel size	Line Rate (kHz)	Interface
XCM2085DLCT3	2048 × 2	7	39.55	CAMERA Link
XCM2085DLMT2			75.69	
XCM4040DLMT4	4096 × 2	7	35.94	
XCM4085DLMT4			76.50	
XCM8085DLMAT8* NEW	8192 × 2		77.55	
XCM16K80SAT8	16384	3.5	36.33	

Model	Resolution	Pixel size	Line Rate (kHz)	Interface
SU2020 (CCD)	2048	14	9.10	CAMERA Link
SU2025 (CCD)			11.40	
SUi7440 (CCD)	7400	4.7	5.20	
SUi7450T2 (CCD)			12.50	
SU2025GIG (CCD)	2048	14	11.40	

Model	Resolution	Pixel size	Line Rate (kHz)	Interface
NUCLi4KA (CCD)	4096 × 3	10	17.70	CAMERA Link
RC3C4K60CL NEW	4096 × 3	7	60	
XCM4085TLCT6	4096 × 3	10	40.00	
NUCLi7370AT6 (CCD)	7300 × 3		17.50	

CLISBee-A

NED's CLISBee-A series offers high sensitivity, high speed and low noise cameras to a reasonable cost. The series includes both single and dual line sensors. 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!

SU SERIES

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

RAINBOW

Add color to your solution with NED's RAINBOW series. Trilinear and Prism-based RC3C full color series offer great value for money.

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
- 2018 Release of high speed Ryugan series
- 2019 Release of Ryugan GiGE models



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