

LineX Series CIS

High Speed
Compact Space
No-Distortion Imaging



Micro Working Distance AI Line Scan Camera
AI CIS Series { 7200DPI@60KHz



Micro Working Distance Line Scan Camera
MAX PRO Series { 3600DPI@200KHz

High Speed / Compact Space / No-Distortion Imaging



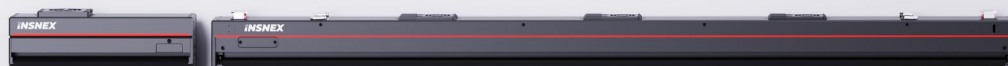
COLOR Series { 600DPI@80KHz
1800DPI@27KHz



MAX Series { 900DPI@80KHz
1800DPI@40KHz

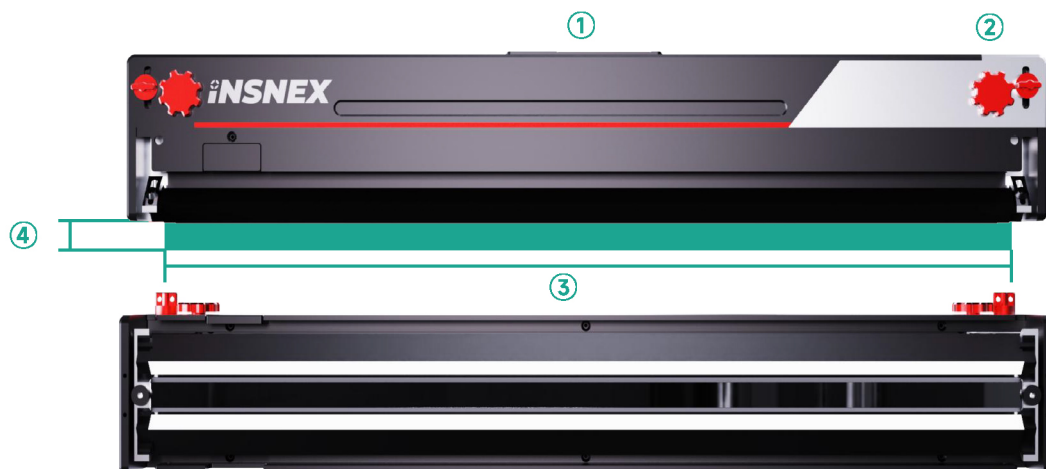
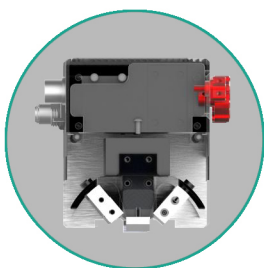


PLUS Series { 300DPI@150KHz
600DPI@95KHz

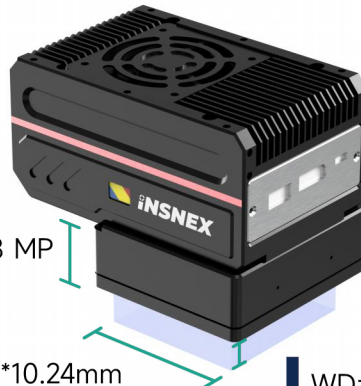


BASE Series { 300DPI@24KHz
600DPI@12KHz

- ④ Working distance: 11 mm / 15 mm / 30 mm / 50 mm, selectable



MDAX Plus series CIS



WD=7mm



Software Image Acquisition Interface



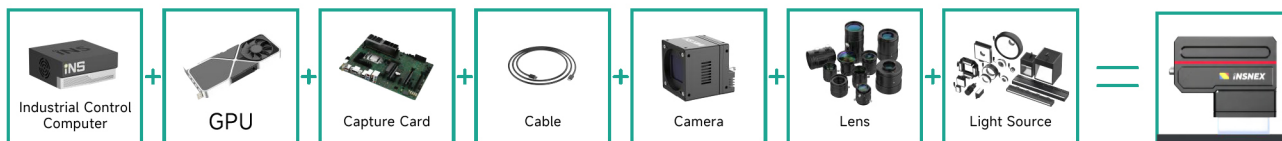
Traditional Camera



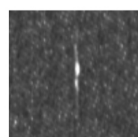
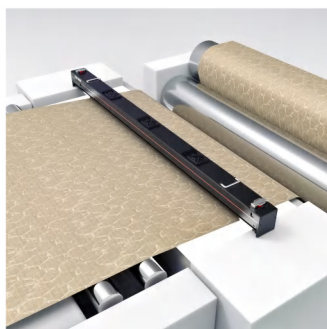
MDAX

- Easy to install
- Maximum speed: 240 fps
- Built-in NVIDIA ORIN GPU chip

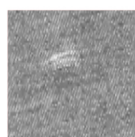
All-in-One design replacing traditional multiple hardware pieces



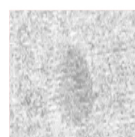
Fabric Inspection



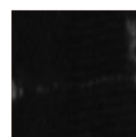
Weave Structure



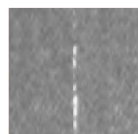
Block Defect



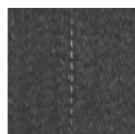
Oil Stains



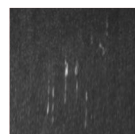
Shrinkage



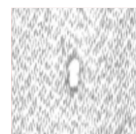
Foreign Fibers



Rough Warp



Warp and Weft Structure

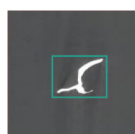


Sizing

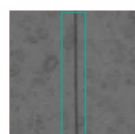
Surface Inspection of Battery Separator



White Spots



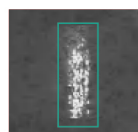
Fracture



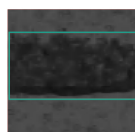
Folding



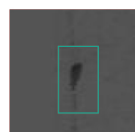
Dripping Adhesive



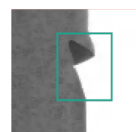
Missing Coating



Offset Printing

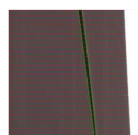


Black Spots



Edge Damage

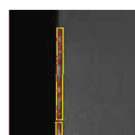
Surface Inspection of Electrode Sheets



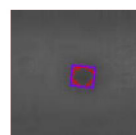
Wrinkles



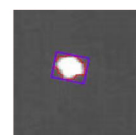
Burrs



Edge Coating Peeling



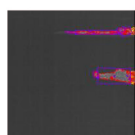
Dents



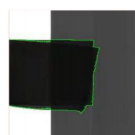
Adhesive Peeling



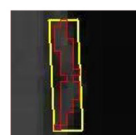
Adhesive Peeling



Output Hole

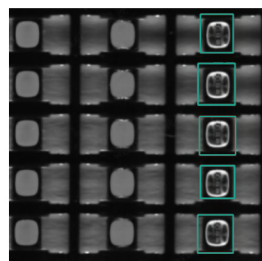
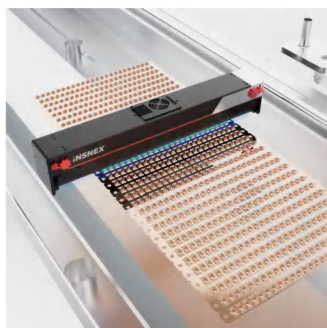


Foreign Object

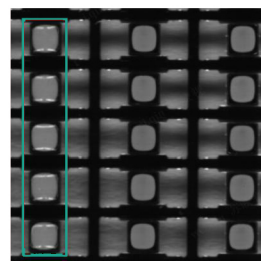


Edge Fracture

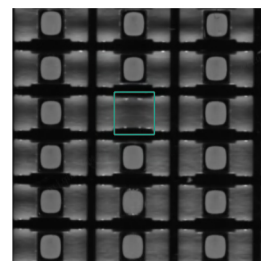
Electronic Components Inspection



Insufficient Adhesive



Excessive Adhesive

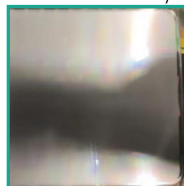


Damage

Screen Surface Inspection



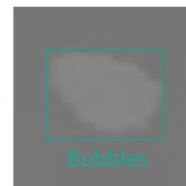
During the production of mobile phone displays, it's important to detect surface defects like bubbles and scratches. Bubbles with low contrast are hard to detect using regular imaging, but LineX can clearly show them.



Test object

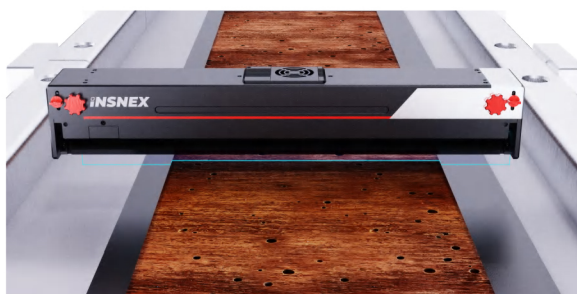


Traditional camera

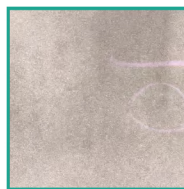


LineX

Wood Surface Inspection



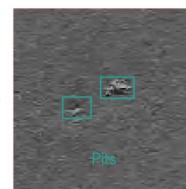
The original color of wood can mask defect features, making them hard to distinguish with the naked eye. LineX can filter out unnecessary patterns and clearly display defects.



Test object



Traditional camera

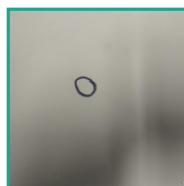


LineX

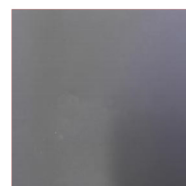
Leather Surface Inspection



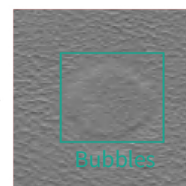
Common defects found on leather include loose stitches, improper fitting, insect eggs, pinholes, and blemishes. LineX can capture invisible texture details.



Test object



Traditional camera

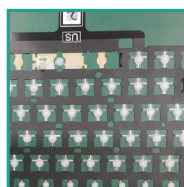


LineX

Keyboard Frame Inspection



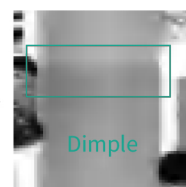
The creases on the keyboard frame are shallow, making it difficult for traditional 2D imaging techniques to identify the defect. LineX clearly displays the defect features for inspection.



Test object

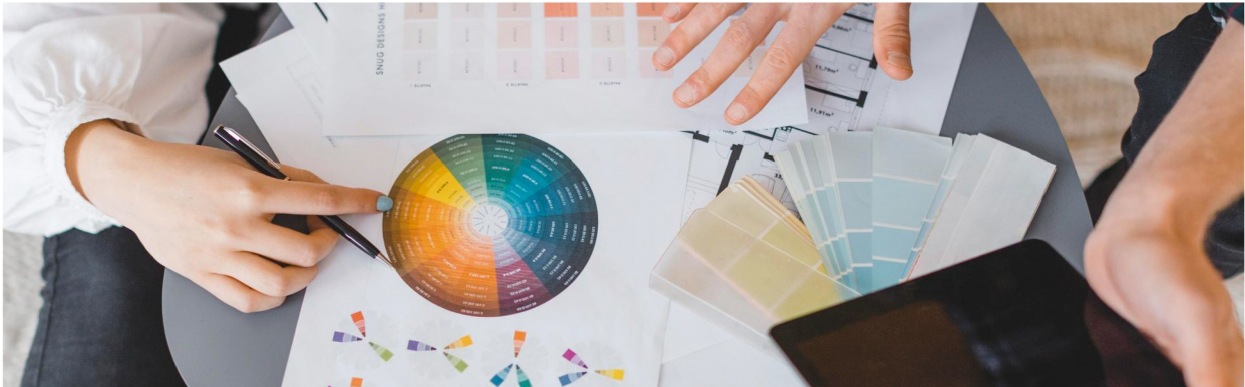


Traditional camera

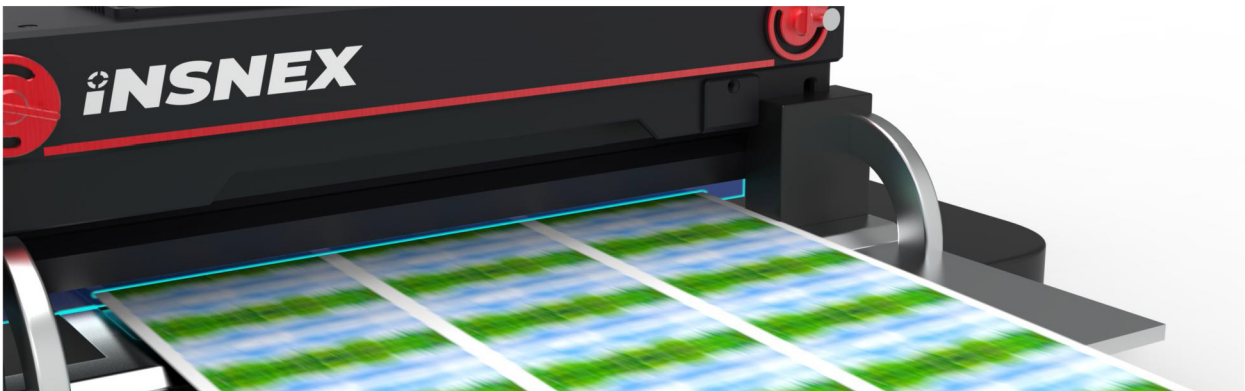


LineX

Offset Print & Color Management



Digital Print & Nozzle check



Narrow Web & Label Print



Flexible Packaging



SPECIFICATIONS

LineX CIS BASE

Model	INS-LXB-385-10GM-6L	INS-LXB-385-10GM-3L	INS-LXB-770-10GM-6L	INS-LXB-770-10GM-3L	INS-LXB-1155-10GM-6L	INS-LXB-1155-10GM-3L	INS-LXB-1541-10GM-6L
Scanning width (mm)	385	385	770	770	1155	1155	1541
Pixel	9248	4640	18496	9280	27744	13920	36992
Image mode	Mono	Mono	Mono	Mono	Mono	Mono	Mono
Data format	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8
Resolution (dpi)	600	300	600	300	600	300	600
Accuracy (mm)	0.042	0.084	0.042	0.084	0.042	0.084	0.042
Working distance (mm)	11	11	11	11	11	11	11
Depth of field (mm)	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5
Communication interface	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE
Line frequency (kHz)	12.5	23.8	12.5	23.8	12.5	23.8	12.5
Working speed (m/s)	0.52	2	0.52	2	0.52	2	0.52
Time-sharing strobe	x	x	x	x	x	x	x
Number of interfaces required	1	1	2	2	2	2	3
Mechanism size	485mm*90mm*105mm	485mm*90mm*105mm	870mm*90mm*105mm	870mm*90mm*105mm	1250mm*90mm*105mm	1250mm*90mm*105mm	1640mm*90mm*105mm
Model	INS-LXB-1541-10GM-3L	INS-LXB-2310-10GM-6L	INS-LXB-2310-10GM-3L	INS-LXB-385-CLM-6L	INS-LXB-385-CLM-3L	INS-LXB-770-CLM-6L	INS-LXB-770-CLM-3L
Scanning width (mm)	1541	2310	2310	385	385	770	770
Pixel	18560	55488	27840	9248	4640	18496	9280
Image mode	Mono	Mono	Mono	Mono	Mono	Mono	Mono
Data format	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8
Resolution (dpi)	300	600	300	600	300	600	300
Accuracy (mm)	0.084	0.042	0.084	0.042	0.084	0.042	0.084
Working distance (mm)	11	11	11	11	11	11	11
Depth of field (mm)	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5
Communication interface	10GigE	10GigE	10GigE	Cameralink	Cameralink	Cameralink	Cameralink
Line frequency (kHz)	23.8	12.5	23.8	12.5	23.8	12.5	23.8
Working speed (m/s)	2	0.52	2	0.52	2	0.52	2
Time-sharing strobe	x	x	x	x	x	x	x
Number of interfaces required	3	4	4	1	1	2	2
Mechanism size	1640mm*90mm*105mm	2410mm*90mm*105mm	2410mm*90mm*105mm	485mm*90mm*105mm	485mm*90mm*105mm	870mm*90mm*105mm	870mm*90mm*105mm
Model	INS-LXB-1155-CLM-6L	INS-LXB-1155-CLM-3L	INS-LXB-1541-CLM-6L	INS-LXB-1541-CLM-3L	INS-LXB-2310-CLM-6L	INS-LXB-2310-CLM-3L	
Scanning width (mm)	1155	1155	1541	1541	2310	2310	
Pixel	27744	13920	36992	18560	55488	27840	
Image mode	Mono	Mono	Mono	Mono	Mono	Mono	
Data format	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8	
Resolution (dpi)	600	300	600	300	600	300	
Accuracy (mm)	0.042	0.084	0.042	0.084	0.042	0.084	
Working distance (mm)	11	11	11	11	11	11	
Depth of field (mm)	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5	
Communication interface	Cameralink	Cameralink	Cameralink	Cameralink	Cameralink	Cameralink	
Line frequency (kHz)	12.5	23.8	12.5	23.8	12.5	23.8	
Working speed (m/s)	0.52	2	0.52	2	0.52	2	
Time-sharing strobe	x	x	x	x	x	x	
Number of interfaces required	3	3	3	3	4	4	
Mechanism size	1250mm*90mm*105mm	1250mm*90mm*105mm	1640mm*90mm*105mm	1640mm*90mm*105mm	2410mm*90mm*105mm	2410mm*90mm*105mm	

LineX CIS PLUS

Model	INS-CHVS-190-10GM-BB	INS-CHVS-190-10GM-AA	INS-CHVS-363-10GM-BB	INS-CHVS-363-10GM-AA	INS-CHVS-366-10GM-CC	INS-CHVS-415-10GM-BB	INS-CHVS-415-10GM-AA
Scanning width (mm)	190	190	363	363	366	415	415
Pixel	4499	2255	8589	4305	17280	9815	4919
Image mode	Mono	Mono	Mono	Mono	Mono	Mono	Mono
Data format	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8
Resolution (dpi)	600	300	600	300	1200	600	300
Accuracy (mm)	0.042	0.084	0.042	0.084	0.021	0.042	0.084
Working distance (mm)	15	15	15	15	15	15	15
Depth of field (mm)	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3
Communication interface	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE
Line frequency (kHz)	66	110	66	110	11	66	110
Working speed (m/s)	2.8	9.3	2.8	9.3	0.23	2.8	9.3
Time-sharing strobe	✓	✓	✓	✓	✓	✓	✓
Number of interfaces required	1	1	1	1	1	1	1
Mechanism size	266mm*70mm*85mm	266mm*70mm*85mm	450mm*90mm*105mm	450mm*90mm*105mm	450mm*90mm*105mm	500mm*90mm*105mm	500mm*90mm*105mm
Model	INS-CHVS-550-10GM-BB	INS-CHVS-550-10GM-AA	INS-CHVS-550-10GM-BA	INS-CHVS-550-10GM-AA1	INS-CHVS-550-10GM-CC	INS-CHVS-813-10GM-BB	INS-CHVS-813-10GM-AA
Scanning width (mm)	550	550	550	550	549	813	813
Pixel	13088	6560	13088	6560	25950	19223	9635
Image mode	Mono	Mono	Mono	Mono	Mono	Mono	Mono
Data format	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8
Resolution (dpi)	600	300	600	300	1200	600	300
Accuracy (mm)	0.042	0.084	0.042	0.084	0.021	0.042	0.084
Working distance (mm)	15	15	15	15	15	15	15
Depth of field (mm)	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3
Communication interface	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE
Line frequency (kHz)	66	110	95	150	11	66	110
Working speed (m/s)	2.8	9.3	4	12.6	0.23	2.8	9.3
Time-sharing strobe	✓	✓	✓	✓	✓	✓	✓
Number of interfaces	1	1	2	2	1	2	2
Mechanism size	670mm*90mm*105mm	670mm*90mm*105mm	670mm*90mm*105mm	670mm*90mm*105mm	670mm*90mm*105mm	896mm*90mm*105mm	896mm*90mm*105mm

SPECIFICATIONS

Model	INS-CHVS-934-10GM-BB	INS-CHVS-934-10GM-AA	INS-CHVS-934-10GM-BA	INS-CHVS-934-10GM-AA1	INS-CHVS-940-10GM-CC	INS-CHVS-1245-10GM-BB	INS-CHVS-1245-10GM-AA
Scanning width (mm)	934	934	934	934	940	1245	1245
Pixel	22086	11070	22086	11070	44432	29448	14760
Image mode	Mono	Mono	Mono	Mono	Mono	Mono	Mono
Data format	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8
Resolution (dpi)	600	300	600	300	1200	600	300
Accuracy (mm)	0.042	0.084	0.042	0.084	0.021	0.042	0.084
Working distance (mm)	15	15	15	15	15	15	15
Depth of field (mm)	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3
Communication interface	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE
Line frequency (kHz)	66	110	95	150	11	66	110
Working speed (m/s)	2.8	9.3	4	12.6	0.23	2.8	9.3
Time-sharing strobe	✓	✓	✓	✓	✓	✓	✓
Number of interfaces required	2	2	3	3	2	2	2
Mechanism size	1041mm*90mm*105mm	1041mm*90mm*105mm	1041mm*90mm*105mm	1041mm*90mm*105mm	1041mm*90mm*105mm	1332mm*90mm*115mm	1332mm*90mm*115mm
Model	INS-CHVS-1350-10GM-BB	INS-CHVS-1350-10GM-AA	INS-CHVS-1350-10GM-BA	INS-CHVS-1350-10GM-AA1	INS-CHVS-1550-10GM-BB	INS-CHVS-1550-10GM-AA	INS-CHVS-1550-10GM-BA
Scanning width (mm)	1349	1349	1349	1349	1539	1539	1539
Pixel	31902	15990	31902	15990	36401	18245	36401
Image mode	Mono	Mono	Mono	Mono	Mono	Mono	Mono
Data format	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8
Resolution (dpi)	600	300	600	300	600	300	600
Accuracy (mm)	0.042	0.084	0.042	0.084	0.042	0.084	0.042
Working distance (mm)	15	15	15	15	15	15	15
Depth of field (mm)	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3
Communication interface	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE
Line frequency (kHz)	66	110	95	150	66	110	95
Working speed (m/s)	2.8	9.3	4	12.6	2.8	9.3	4
Time-sharing strobe	✓	✓	✓	✓	✓	✓	✓
Number of interfaces required	3	3	4	4	3	3	4
Mechanism size	1436mm*90mm*115mm	1436mm*90mm*115mm	1436mm*90mm*115mm	1436mm*90mm*115mm	1628mm*90mm*115mm	1628mm*90mm*115mm	1628mm*90mm*115mm
Model	INS-CHVS-1550-10GM-AA1	INS-CHVS-1550-10GM-CC	INS-CHVS-1950-10GM-BB	INS-CHVS-1950-10GM-AA	INS-CHVS-363-CLM-6M	INS-CHVS-363-CLM-3F	INS-CHVS-366-CLM-12L
Scanning width (mm)	1539	1537	1937	1937	363	363	366
Pixel	18245	72650	36401	18245	8589	4305	17280
Image mode	Mono	Mono	Mono	Mono	Mono	Mono	Mono
Data format	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8
Resolution (dpi)	300	1200	600	300	600	300	1200
Accuracy (mm)	0.084	0.021	0.042	0.084	0.042	0.084	0.021
Working distance (mm)	15	15	15	15	15	15	15
Depth of field (mm)	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3
Communication interface	10GigE	10GigE	10GigE	10GigE	Camera Link	Camera Link	Camera Link
Line frequency (kHz)	150	11	66	110	66	110	11
Working speed (m/s)	12.6	0.23	2.8	9.3	2.8	9.3	0.23
Time-sharing strobe	✓	✓	✓	✓	✓	✓	✓
Number of interfaces required	4	3	4	4	1	1	1
Mechanism size	1628mm*90mm*115mm	1628mm*90mm*115mm	2028mm*90mm*115mm	2028mm*90mm*115mm	450mm*90mm*105mm	450mm*90mm*105mm	450mm*90mm*105mm
Model	INS-CHVS-550-CLM-6M	INS-CHVS-550-CLM-3F	INS-CHVS-934-CLM-6M	INS-CHVS-934-CLM-3F	INS-CHVS-1245-CLM-6M	INS-CHVS-1245-CLM-3F	INS-CHVS-1350-CLM-6M
Scanning width (mm)	550	550	934	934	1245	1245	1349
Pixel	13088	6560	22086	11070	29448	14760	31902
Image mode	Mono	Mono	Mono	Mono	Mono	Mono	Mono
Data format	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8
Resolution (dpi)	600	300	600	300	600	300	600
Accuracy (mm)	0.042	0.084	0.042	0.084	0.042	0.084	0.042
Working distance (mm)	15	15	15	15	15	15	15
Depth of field (mm)	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3
Communication interface	Camera Link	Camera Link	Camera Link	Camera Link	Camera Link	Camera Link	Camera Link
Line frequency (kHz)	66	110	66	110	66	110	66
Working speed (m/s)	2.8	9.3	2.8	9.3	2.8	9.3	2.8
Time-sharing strobe	✓	✓	✓	✓	✓	✓	✓
Number of interfaces required	2	2	3	3	3	3	4
Mechanism size	670mm*90mm*105mm	670mm*90mm*105mm	1077mm*90mm*105mm	1077mm*90mm*105mm	1332mm*90mm*115mm	1332mm*90mm*115mm	1436mm*90mm*115mm
Model	INS-CHVS-1350-CLM-3F	INS-CHVS-1550-CLM-6M	INS-CHVS-1550-CLM-3F				
Scanning width (mm)	1349	1539	1539				
Pixel	15990	36401	18245				
Image mode	Mono	Mono	Mono				
Data format	Mono8	Mono8	Mono8				
Resolution (dpi)	300	600	300				
Accuracy (mm)	0.084	0.042	0.084				
Working distance (mm)	15	15	15				
Depth of field (mm)	±1.3	±1.3	±1.3				
Communication interface	Camera Link	Camera Link	Camera Link				
Line frequency (kHz)	110	66	110				
Working speed (m/s)	9.3	2.8	9.3				
Time-sharing strobe	✓	✓	✓				
Number of interfaces required	4	4	4				

SPECIFICATIONS

LineX CIS MAX

Model	INS-LXM-165-10GM-18M	INS-LXM-165-10GM-18L	INS-LXM-165-10GM-9M	INS-LXM-328-10GM-18M	INS-LXM-328-10GM-18L	INS-LXM-328-10GM-9M	INS-LXM-490-10GM-18M
Scanning width (mm)	165	165	165	328	328	328	492
Pixel	11786	11786	5893	23428	23428	11714	35143
Image mode	Mono	Mono	Mono	Mono	Mono	Mono	Mono
Data format	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8
Resolution (dpi)	1800	1800	900	1800	1800	900	1800
Accuracy (mm)	0.014	0.014	0.028	0.014	0.014	0.028	0.014
Working distance (mm)	15	15	15	15	15	15	15
Depth of field (mm)	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3
Communication interface	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE
Line frequency (kHz)	80	40	80	80	40	80	80
Working speed (m/s)	1.12	0.56	2.24	1.12	0.56	2.24	1.12
Time-sharing strobe	✓	✓	✓	✓	✓	✓	✓
Number of interfaces	1	1	1	2	1	1	3
Mechanism size	250mm*90mm*111mm	250mm*90mm*111mm	250mm*90mm*111mm	TBD	404mm*90mm*106mm	404mm*90mm*106mm	TBD
Model	INS-LXM-490-10GM-18L	INS-LXM-490-10GM-9M	INS-LXM-656-10GM-18M	INS-LXM-656-10GM-18L	INS-LXM-656-10GM-9M	INS-LXM-820-10GM-18M	INS-LXM-820-10GM-18L
Scanning width (mm)	492	492	656	656	656	820	820
Pixel	35143	17572	46857	46857	23428	58572	58572
Image mode	Mono	Mono	Mono	Mono	Mono	Mono	Mono
Data format	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8
Resolution (dpi)	1800	900	1800	1800	900	1800	1800
Accuracy (mm)	0.014	0.028	0.014	0.014	0.028	0.014	0.014
Working distance (mm)	15	15	15	15	15	15	15
Depth of field (mm)	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3
Communication interface	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE
Line frequency (kHz)	40	80	80	40	80	80	40
Working speed (m/s)	0.56	2.24	1.12	0.56	2.24	1.12	0.56
Time-sharing strobe	✓	✓	✓	✓	✓	✓	✓
Number of interfaces	2	2	4	2	2	5	3
Mechanism size	610mm*90mm*106mm	610mm*90mm*106mm	TBD	717mm*90mm*106mm	717mm*90mm*106mm	TBD	880mm*90mm*106mm
Model	INS-LXM-820-10GM-9M	INS-LXM-984-10GM-18M	INS-LXM-984-10GM-18L	INS-LXM-984-10GM-9M	INS-LXM-1148-10GM-18M	INS-LXM-1148-10GM-18L	INS-LXM-1148-10GM-9M
Scanning width (mm)	820	984	984	984	1148	1148	1148
Pixel	29286	70286	70286	35143	82000	82000	41000
Image mode	Mono	Mono	Mono	Mono	Mono	Mono	Mono
Data format	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8
Resolution (dpi)	900	1800	1800	900	1800	1800	900
Accuracy (mm)	0.028	0.014	0.014	0.028	0.014	0.014	0.028
Working distance (mm)	15	15	15	15	15	15	15
Depth of field (mm)	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3
Communication interface	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE
Line frequency (kHz)	80	80	40	80	80	40	80
Working speed (m/s)	2.24	1.12	0.56	2.24	1.12	0.56	2.24
Time-sharing strobe	✓	✓	✓	✓	✓	✓	✓
Number of interfaces	3	6	3	3	7	4	4
Mechanism size	880mm*90mm*106mm	TBD	1043mm*90mm*106mm	1043mm*90mm*106mm	TBD	TBD	TBD
Model	INS-LXM-1312-10GM-18M	INS-LXM-1312-10GM-18L	INS-LXM-1312-10GM-9M	INS-LXM-1476-10GM-18M	INS-LXM-1476-10GM-18L	INS-LXM-1476-10GM-9M	
Scanning width (mm)	1312	1312	1312	1476	1476	1476	
Pixel	93714	93714	46857	105428	105428	52714	
Image mode	Mono	Mono	Mono	Mono	Mono	Mono	
Data format	Mono8	Mono8	Mono8	Mono8	Mono8	Mono8	
Resolution (dpi)	1800	1800	900	1800	1800	900	
Accuracy (mm)	0.014	0.014	0.028	0.014	0.014	0.028	
Working distance (mm)	15	15	15	15	15	15	
Depth of field (mm)	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3	
Communication interface	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE	
Line frequency (kHz)	80	40	80	80	40	80	
Working speed (m/s)	1.12	0.56	2.24	1.12	0.56	2.24	
Time-sharing strobe	✓	✓	✓	✓	✓	✓	
Number of interfaces	8	4	4	9	5	5	
Mechanism size	TBD	TBD	TBD	TBD	TBD	TBD	

LineX MDA

Model	INS-MDA-500M-A	INS-MDA-900M-A	INS-MDA-1200M-A	INS-MDA-1800M-A
Sensor class	CMOS	CMOS	CMOS	CMOS
pixel size	2.5 μm	2.5 μm	2.5 μm	2.5 μm
Target size	1/2"	2/3"	1"	1"
image mode	Mono	Mono	Mono	Mono
data format	Mono8	Mono8	Mono8	Mono8
resolution	5M	9M	12M	18M
camera frame rate	2600 x 2160 240fps	4200 x 2160 133fps	4096 x 3072 100fps	4480 x 4096 66fps
Shutter mode	Automatic Exposure	Automatic Exposure	Automatic Exposure	Automatic Exposure
Photometric stereoscopic light source	Yes (4 ways)	Yes (4 ways)	Yes (4 ways)	Yes (4 ways)
working distance	7mm	7mm	7mm	7mm
lens interface	C-Mount	C-Mount	C-Mount	C-Mount
external dimensions	130mm*64mm*84mm	130mm*64mm*84mm	130mm*64mm*84mm	130mm*64mm*84mm

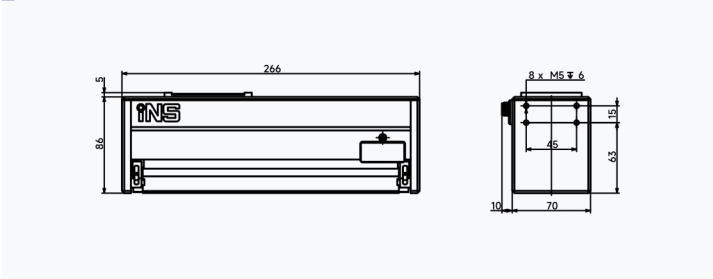
SPECIFICATIONS

LineX CIS COLOR

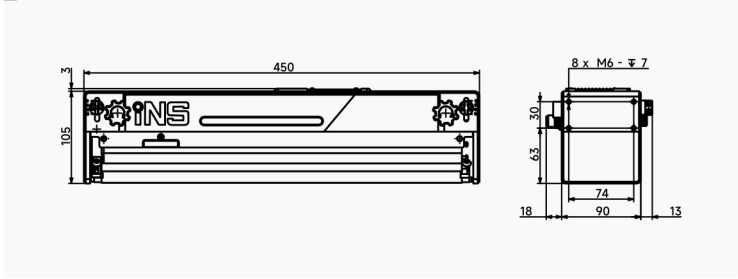
Model	INS-CHVS-190-10GC-BB	INS-CHVS-311-10GC-BB	INS-CHVS-363-10GC-BB	INS-CHVS-600-10GC-BB	INS-CHVS-934-10GC-BB	INS-CHVS-1550-10GC-BB	INS-LXM-328-10GC-18L
Scanning width (mm)	190	311	363	600	934	1539	328
Pixel	4499	7344	8589	13088	22086	36401	23428
Image mode	Color	Color	Color	Color	Color	Color	Color
Data format	RGB8	RGB8	RGB8	RGB8	RGB8	RGB8	RGB8
Resolution (dpi)	600	600	600	600	600	600	1800
Accuracy (mm)	0.042	0.042	0.042	0.042	0.042	0.042	0.014
Working distance (mm)	15	15	15	15	15	15	15
Depth of field (mm)	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3
Communication	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE
Line frequency (kHz)	66	66	66	66	66	66	27
Working speed (m/s)	2.75	2.75	2.75	2.75	2.75	2.75	0.37
Time-sharing strobe	✓	✓	✓	✓	✓	✓	×
Number of interfaces required	1	2	2	4	5	8	1
Mechanism size	266mm*70mm*85mm	450mm*90mm*105mm	450mm*90mm*105mm	670mm*90mm*105mm	1041mm*90mm*105mm	1628mm*90mm*115mm	404mm*90mm*106mm
Model	INS-LXM-328-10GC-9M	INS-LXM-490-10GC-18L	INS-LXM-490-10GC-9M	INS-LXM-656-10GC-18L	INS-LXM-656-10GC-9M	INS-LXM-984-10GC-18L	INS-LXM-984-10GC-9M
Scanning width (mm)	328	492	492	656	656	984	984
Pixel	11714	35143	17572	46857	23428	70286	35143
Image mode	Color	Color	Color	Color	Color	Color	Color
Data format	RGB8	RGB8	RGB8	RGB8	RGB8	RGB8	RGB8
Resolution (dpi)	900	1800	900	1800	900	1800	900
Accuracy (mm)	0.028	0.014	0.028	0.014	0.028	0.014	0.028
Working distance (mm)	15	15	15	15	15	15	15
Depth of field (mm)	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3	±1.3
Communication	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE	10GigE
Line frequency (kHz)	27	27	27	27	27	27	27
Working speed (m/s)	0.75	0.37	0.75	0.37	0.75	0.37	0.75
Time-sharing strobe	×	×	×	×	×	×	×
Number of interfaces required	1	2	2	2	2	3	3
Mechanism size	404mm*90mm*106mm	610mm*90mm*106mm	610mm*90mm*106mm	717mm*90mm*106mm	717mm*90mm*106mm	1043mm*90mm*106mm	1043mm*90mm*106mm
Model	INS-CHVS-190-10GC-BA	INS-CHVS-311-10GC-BA	INS-CHVS-363-10GC-BA	INS-CHVS-600-10GC-BA	INS-CHVS-934-10GC-BA		
Scanning width (mm)	190	311	363	600	934		
Pixel	4499	7344	8589	14285	22086		
Image mode	Color	Color	Color	Color	Color		
Data format	RGB8	RGB8	RGB8	RGB8	RGB8		
Resolution (dpi)	600	600	600	600	600		
Accuracy (mm)	0.042	0.042	0.042	0.042	0.042		
Working distance (mm)	15	15	15	15	15		
Depth of field (mm)	±1.3	±1.3	±1.3	±1.3	±1.3		
Communication	10GigE	10GigE	10GigE	10GigE	10GigE		
Line frequency (kHz)	80	80	80	80	80		
Working speed (m/s)	3.33	3.33	3.33	3.33	3.33		
Time-sharing strobe	✓	✓	✓	✓	✓		
Number of interfaces required	1	2	2	4	5		

DIMENSION DRAWING

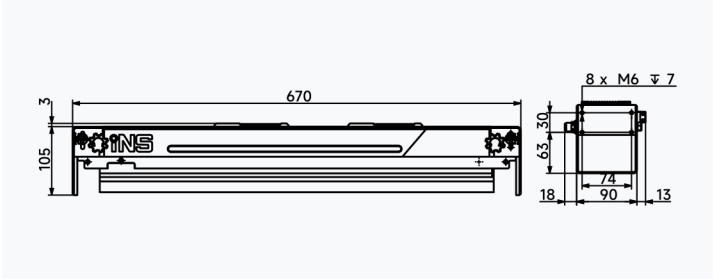
INS-CHVS-190-10GM(MAX/PLUS)



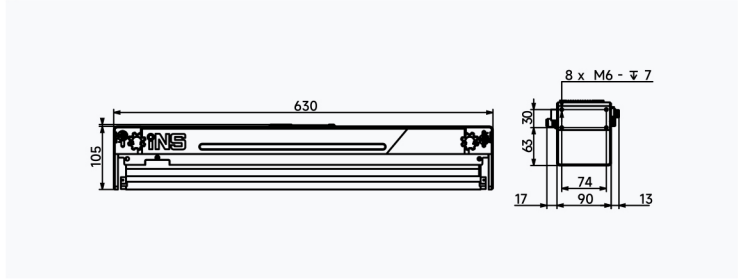
INS-CHVS-363-10GM(MAX/PLUS)



INS-CHVS-550-10GM(MAX/PLUS) High speed

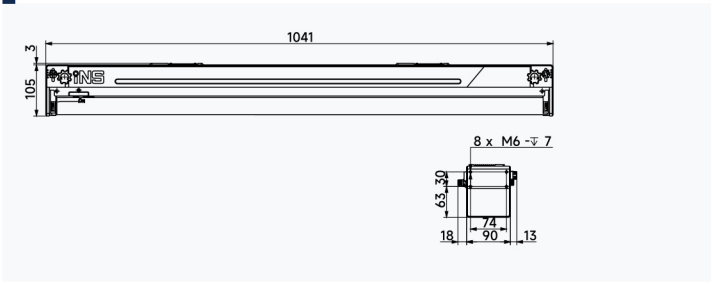


INS-CHVS-550-10GM(MAX/PLUS) Medium speed

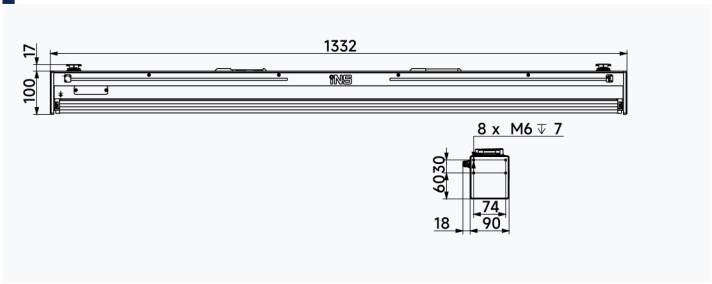


DIMENSION DRAWING

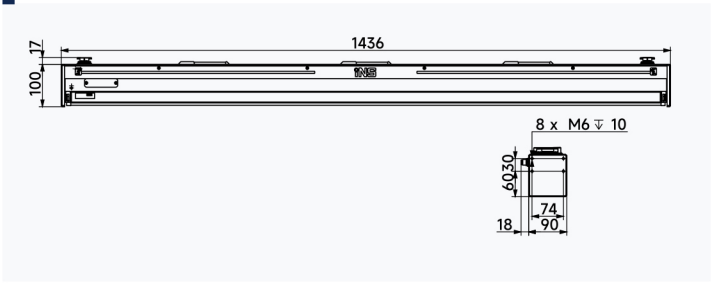
INS-CHVS-934-10GM(MAX/PLUS) High speed



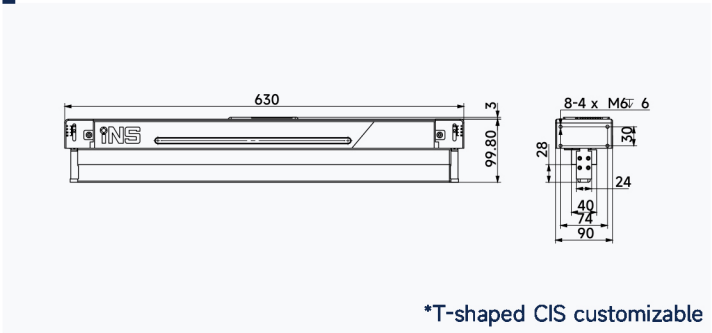
INS-CHVS-1245-10GM(MAX/PLUS)



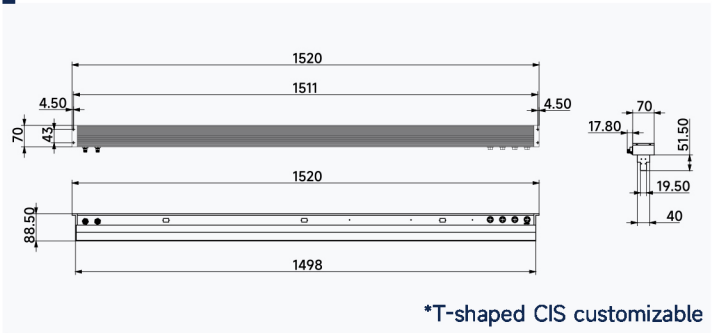
INS-CHVS-1350-10GM(MAX/PLUS)



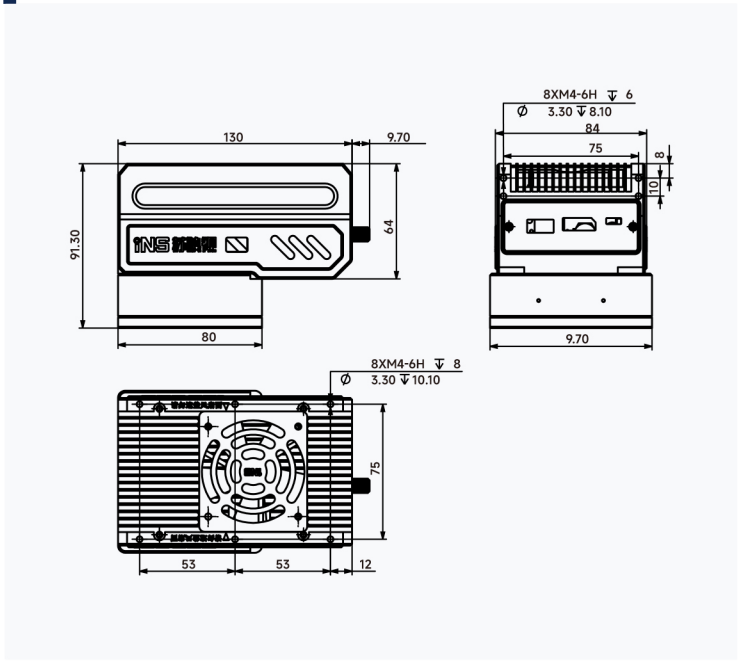
INS-CHVS-550-10GM



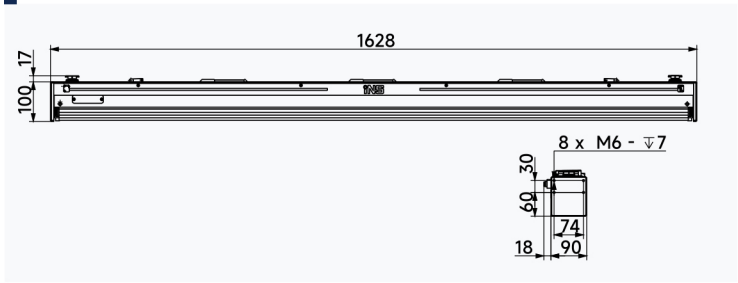
INS-CHVS-1453-10GM



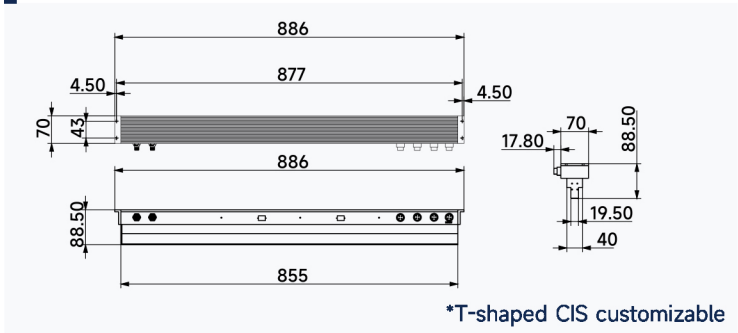
INS-MDA-500M-A



INS-CHVS-1550-10GM(MAX/PLUS)



INS-CHVS-813-10GM





BETTER SOLUTION & SUPPORT

언제 어디서든 비투에스를 만나보세요!



공식 홈페이지



공식 블로그



공식 인스타그램

제품·기술지원 문의

☎ 02-6914-6363

✉ btwos@btwos.co.kr

(주)비투에스

본 사 (14353) 경기도 광명시 일직로 43(일직동), 광명역 GIDC A동 912, 913호

연구소 (14353) 경기도 광명시 일직로 43(일직동), 광명역 GIDC C동 407호

H Q 912, 913, GIDC A-dong, 43, Iljik-ro, Gwangmyeong-si, Gyeonggi-do, Republic of Korea (14353)

R & D 407, GIDC C-dong, 43, Iljik-ro, Gwangmyeong-si, Gyeonggi-do, Republic of Korea (14353)