

Micro Working Distance Camera

Model Name: INS-LXM-1312-10GM Series

Change History			
Rev.	Date	Author	Specification
V1.0	Jun. 2024	INSNEX	Original

Contact Us
If you have any doubts or suggestions during the use of the software, please contact us promptly: Ins nex Technologies Co.,Ltd Address: Building R, No. 218 Xingming Street, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone Postal Code: 215000 Website: http://www.insnex.com/ Telephone: (86) 0512-67159489 E-mail: Services@Ins nex.com

1. Product Outline

Item	INS-LXM-1312-10GM-9M	INS-LXM-1312-10GM-9F	INS-LXM-1312-10GM-18L	INS-LXM-1312-10GM-18L-WD30	INS-LXM-1312-10GM-18M	Note
Digital Data Output Interface	10GigE*4	10GigE*8	10GigE*4	10GigE*4	10GigE*8	
Command transmission interface	Serial interface	Serial interface	Serial interface	Serial interface	Serial interface	
Scanning width	1312	1312	1312	1312	1312	mm
Resolution	900	900	1800	1800	1800	DPI
Effective pixel point	46857	46857	93714	93714	93714	Pixels
Line frequency	80	160	40	40	80	kHz
Scanning speed	4.4	2.2	0.5	0.5	1.1	m/s
Power supply	+24V×6A	+24V×12A	+24V×6A	+24V×6A	+24V×12A	To control boards
	+24V×6A	+24V×6A	+24V×6A	+24V×6A	+24V×6A	To LED boards
Focus position(from glass surface)	15	15	15	30	15	mm
Image format	Mono8	Mono8	Mono8	Mono8	Mono8	
Appearance Colour	Black	Black	Black	Black	Black	

2. Serial Interface

This serial interface uses hex code.

Item	Value
Baud rate	115200
Start bit	1
Data bit	8
Parity bit	None
Stop bit	1
Flow control	None

3. Maximum Rating

Item	Symbol	Specification	Note
DC supply voltage	Control boards	+24V±1V	
	LED boards	+24V±1V	
Ambient temperature	Ta	0~+40°C	Operating
		-20~60°C	Storage
Ambient humidity		10%~90%RH	

4. Connector Plug/Unplug

Unplug & plug the cable number should be less than 50. The connector will be ineffective if it is extracted and inserted over that number.

5. Stable Operation

(1) The connector pins should not be touched by bare hands or electrostatic charge materials.

(2) Latch-up

When the supply voltage exceeds the absolute maximum, Latch-up will occur. Latch-up will cause the sensor to be broken, even if the voltage is caused by a surge. If the current varies rapidly in the external circuit, or when the power is switched on and off very frequently, ensure that the voltage of each terminal does not exceed the values indicated in below.

(3) Absolute maximum rating

Item	Specification		Unit
	Min.	Max.	
Control boards supply voltage	-0.3	+25.0	V
LED boards supply voltage	-0.3	+25.0	
Shaft encoder input voltage	-0.3	5.5	
External trigger input voltage	-0.3	25	
External trigger output voltage	-0.3	25	

6. Reliability

Please operate Micro Working Distance Camera under INS operating conditions, which is specified in section 6.