

Micro Working Distance Camera

Model Name: INS-CHVS-190-10GM 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-CHVS-190-10GM-BB	INS-CHVS-190-10GM-AA	Note
Digital Data Output Interface	10GigE	10GigE	
Scanning width	190	190	mm
Resolution	600	300	DPI
Effective pixel point	4498	2254	Pixels
Line frequency	66	110	kHz
Scanning speed	2.8	9.3	m/s
Data transfer rate	10	10	Gbps
Power supply	+24V×2A	+24V×2A	To control boards
	+24V×3A	+24V×3A	To LED boards
Focus position(from glass surface)	15	15	mm
Image format	Mono8	Mono8	
Appearance Colour	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.