

CA-H200C

High-Speed 2-Megapixel Color Camera

CONTROLLED ENGINEERING COPY

Protect the sensor and C-mount interface from contamination, select a supported high-speed cable, and verify exposure, focus, white balance, trigger timing, and image transfer under production illumination.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	CA-H200C
Manufacturer part	CA-H200C
Hardware type	Color CMOS
System family	KEYENCE CV-X / XG vision system



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01 PRE-INSTALLATION PLAN

- 1

Verify CA-H200C and the assigned controller-camera port before work.
- 2

Isolate camera, controller, and illumination power before reconnection.
- 3

Keep the sensor window and C-mount thread free of dust and fingerprints.
- 4

Use only the supported high-speed camera cable and secure both ends.
- 5

Check lens coverage and mechanical clearance for the 1/1.8-inch sensor.

MATCHED HARDWARE

- compatible CV-X or XG controller
- high-speed camera cable
- C-mount lens
- machine-vision illumination

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	CA-H200C / CA-H200C recorded
Physical interface	compatible CV-X or XG controller
Companion check	high-speed camera cable
Functional proof	Captures two-megapixel color images for high-speed inspection
Application test	Color assembly verification

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Image sensor	Color CMOS
Pixel size	4.5 um x 4.5 um
Resolution	1600 x 1200 pixels
Sensor format	1/1.8 in
Scan method	Progressive
Transfer time at 7x	28.9 ms
Transfer time at 16x	11.8 ms
Pixel clock at 7x	86 MHz
Pixel clock at 16x	198 MHz
Data transfer	Digital serial
Exposure range	0.05 to 9000 ms
Lens mount	C mount
Degree of protection	IP64 with specified lens and cable
Operating temperature	0 to 45 degC

FIELD NOTE

Protect the sensor and C-mount interface from contamination, select a supported high-speed cable, and verify exposure, focus, white balance, trigger timing, and image transfer under production illumination.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	CA-H200C / CA-H200C recorded
Physical interface	compatible CV-X or XG controller
Companion check	high-speed camera cable
Functional proof	Captures two-megapixel color images for high-speed inspection
Application test	Color assembly verification

04 RETURN-TO-SERVICE RECORD

- ☐ Set exposure without saturation at the actual line speed.
- ☐ Validate color balance and focus with representative production samples.
- ☐ Confirm stable triggering, image transfer, and inspection results before release.
- ☐ Confirm the intended process response before normal operation.

VERIFICATION RECORD

TECHNICIAN

DATE

CABINET / POSITION

FINAL DIAGNOSTIC STATE

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
GT2-H32	High-accuracy digital contact sensor head	Open product page

SOURCE IDENTIFIERS

KEYENCE CA-H200C Model Specifications

CA-H200C

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