

CA-H200C

High-Speed 2-Megapixel Color Camera

KEYENCE CA-H200C is a high-speed two-megapixel color industrial camera. It supplies progressive-scan digital images to a compatible KEYENCE vision controller.

PRODUCT SNAPSHOT

BRAND
KEYENCE

FAMILY
KEYENCE CV-X / XG vision system

PART
CA-H200C

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PRODUCT OVERVIEW

KEYENCE CA-H200C is a high-speed two-megapixel color industrial camera. It supplies progressive-scan digital images to a compatible KEYENCE vision controller.

- 1

Captures two-megapixel color images for high-speed inspection
- 2

Transfers pixel data digitally to a compatible vision controller
- 3

Supports electronic-shutter control for moving workpieces
- 4

Uses C-mount optics for application-specific field of view

SYSTEM COMPONENTS

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

RELATED PRODUCTS ON APTER POWER

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

TECHNICAL DATA

PARAMETER	VALUE
Image sensor	Color CMOS
Pixel size	4.5 μm x 4.5 μm
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

PARAMETER	VALUE
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
Relative humidity	85% maximum

TECHNICAL 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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Color assembly verification

Captures two-megapixel color images for high-speed inspection

Printed packaging inspection

Transfers pixel data digitally to a compatible vision controller

Electronic-component presence checking

Supports electronic-shutter control for moving workpieces

High-speed surface-defect inspection

Uses C-mount optics for application-specific field of view

PRODUCT PRECAUTIONS

- 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.
- 6 Set exposure without saturation at the actual line speed.
- 7 Validate color balance and focus with representative production samples.
- 8 Confirm stable triggering, image transfer, and inspection results before release.

ENGINEER FAQ

Q1 How should the field connections for CA-H200C be recorded before replacement?

Record terminal or connector identity, polarity, shield, cable tag, channel assignment, and the as-found diagnostic state before disconnecting CA-H200C.

Q2 What isolation is required before installing CA-H200C?

Place color assembly verification in the approved maintenance state, isolate every applicable power, signal, and stored-energy source, and prove the work area safe.

Q3 Which configuration check is essential when commissioning CA-H200C?

Restore only the approved model-specific channel, range, address, scale, or interface settings and compare them with the physical installation before enabling the process function.

Q4 How can an engineer function-test CA-H200C after installation?

Apply a controlled input, reference, or limited output appropriate to high-speed 2-megapixel color camera, observe the system indication and diagnostics, and confirm the intended process response.

Q5 What should be checked if CA-H200C reports an unstable or incorrect value?

Check seating, supply, grounding, shielding, matched components, mechanical installation, and the signal path before changing configuration or replacing additional hardware.

Q6 Can CA-H200C be replaced by a visually similar model without review?

No. Verify the complete part number, electrical execution, connector arrangement, companion hardware, and approved software or rack configuration.

Q7 What commissioning evidence should be retained for CA-H200C?

Retain the full CA-H200C identity, as-left wiring and settings, measured functional-test results, final diagnostics, and authorization to return the affected equipment to service.

Q8 Which installed hardware must be matched before fitting CA-H200C?

Match the complete CA-H200C marking to compatible CV-X or XG controller and high-speed camera cable, then confirm the assigned KEYENCE CV-X / XG vision system position and approved system configuration.