

INDUSTRIAL AUTOMATION PRODUCT

# 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.

| IDENTITY      | VERIFIED VALUE                  |
|---------------|---------------------------------|
| Manufacturer  | KEYENCE                         |
| System family | KEYENCE CV-X / XG vision system |
| Part number   | CA-H200C                        |
| Country       | Japan                           |
| HS code       | 8537101190                      |

### APTER POWER SALES TEAM

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## Technical Specifications

Technical values below are limited to the named KEYENCE product record.

| PARAMETER             | TECHNICAL VALUE                       |
|-----------------------|---------------------------------------|
| Image sensor          | Color CMOS                            |
| Pixel size            | 4.5 $\mu\text{m}$ x 4.5 $\mu\text{m}$ |
| 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                          |
| Relative humidity     | 85% maximum                           |

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## System Role and Architecture

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

FUNCTION 1

Captures two-megapixel color images for high-speed inspection

FUNCTION 2

Transfers pixel data digitally to a compatible vision controller

FUNCTION 3

Supports electronic-shutter control for moving workpieces

FUNCTION 4

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

Matched system components

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

SYSTEM INTEGRATION RECORD

| INTEGRATION ITEM           | DOCUMENTED ROLE                                               |
|----------------------------|---------------------------------------------------------------|
| Installed host / carrier   | compatible CV-X or XG controller                              |
| Companion hardware         | high-speed camera cable                                       |
| Field connection           | C-mount lens                                                  |
| Primary system function    | Captures two-megapixel color images for high-speed inspection |
| Controlled acceptance duty | Color assembly verification                                   |

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# Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

| CHECK              | 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                                   |

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## Engineering 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.

### RELATED PRODUCTS ON APTER POWER

| MODEL   | SYSTEM ROLE                               | APTER POWER PAGE                  |
|---------|-------------------------------------------|-----------------------------------|
| GT2-H32 | High-accuracy digital contact sensor head | <a href="#">Open product page</a> |

### MANUFACTURER SOURCE RECORD

KEYENCE CA-H200C Model Specifications

CA-H200C

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