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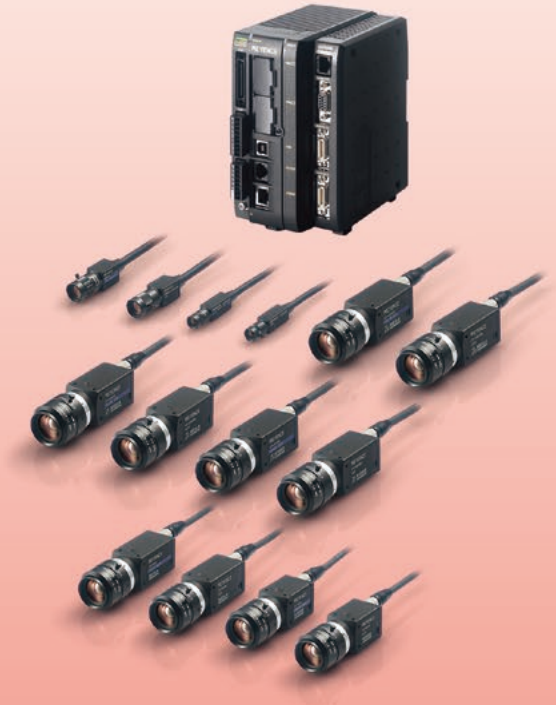
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Intuitive Vision System
CV-5000 Series



14 different camera types

Users can select the camera best suited for the application

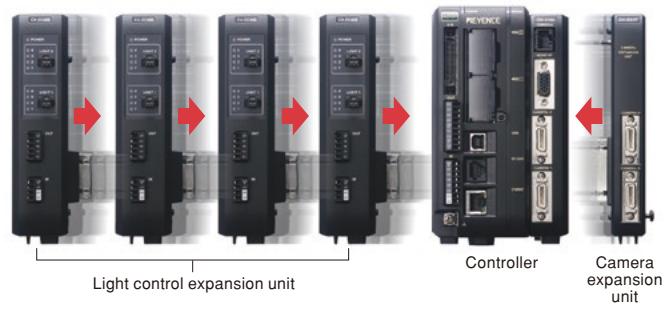
Users can select the optimum camera for their application from the industry's most extensive lineup of 5 million-pixel, 2 million-pixel, and ultra compact cameras. Each camera type is available in colour or monochrome models. The CV-5000 Series can simultaneously run up to four different camera types making multi-camera applications more cost efficient.



Expandable controller architecture

Complete System Flexibility

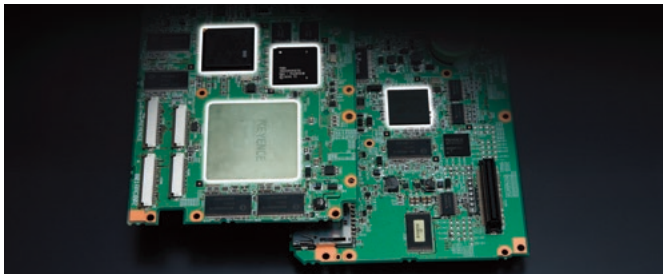
This architecture allows users to increase the flexibility of their systems using expansion units, which includes the camera expansion unit and the light control expansion unit. By limiting the functionality to the essentials, users can meet their requirements, reduce costs, and still maintain the flexibility to upgrade in the future.



3+1 processor technology

High-speed, parallel processing system

The 3 + 1 parallel processing architecture addresses the heavy processing needs required by high-volume 5 million pixel images, colour processing, and advanced algorithms that perform complex numeric operations.



CE

For standard certification and conformance list, see our website.
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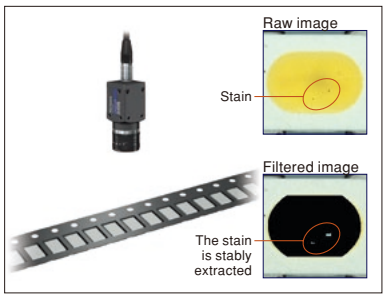
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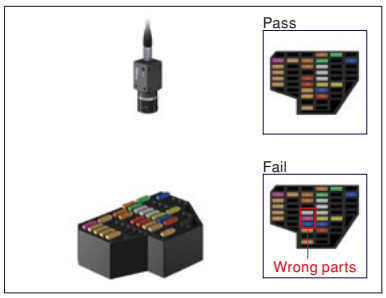
Free downloads for product and technical support are readily available in one convenient location

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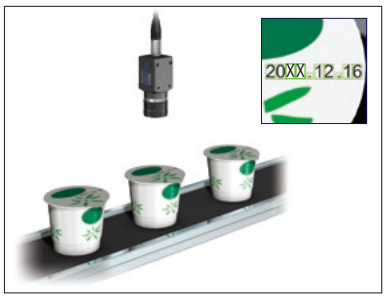
Applications



Visual inspection of chip (SMD) LEDs



Detecting incorrectly assembled fuse boxes



Inspection of expiration dates

Lineup

Camera

Series	Shape	Model	Specifications	No. of pixels	Image transfer time
5 megapixel cameras	11x 5MEGA DIGITAL	CV-H500M CV-H500C	11x high-speed Monochrome camera 11x high-speed Colour camera	2432 x 2050 2432 x 2050	61.2 ms 61.2 ms
2 megapixel cameras	7x MEGA DIGITAL	CV-H200M CV-H200C	7x high-speed Monochrome camera 7x high-speed Colour camera	1600 x 1200 1600 x 1200	29.2 ms 29.2 ms
	MEGA DIGITAL	CV-200M CV-200C	Monochrome camera Colour camera	1600 x 1200 1600 x 1200	59 ms 59 ms
	SUPER-SMALL DIGITAL	CV-S200M CV-S200C	Ultra-compact Monochrome camera Ultra-compact Colour camera	1600 x 1200 1600 x 1200	59 ms 59 ms
310000 pixel cameras	7x HI SPEED DIGITAL	CV-H035M CV-H035C	7x high-speed Monochrome camera 7x high-speed Colour camera	640 x 480 640 x 480	4.7 ms 4.7 ms
	HI-SPEED DIGITAL	CV-035M CV-035C	Monochrome camera Colour camera	640 x 480 640 x 480	16.7 ms 16.7 ms
	ULTRA-SMALL DIGITAL	CV-S035M CV-S035C	Ultra-compact Monochrome camera Ultra-compact Colour camera	640 x 480 640 x 480	16.7 ms 16.7 ms

Controllers and accessories

High-speed, high-capacity controller with 5000000-pixel camera support
CV-5701(P)

High-speed, high-capacity controller
CV-5501(P)

310000-pixel dedicated controller
CV-5001(P)

Camera expansion unit
CV-E500

LED light control expansion unit
CA-DC21E

CC-Link unit
CA-NCL10E



Console (included)
OP-84231



Communication software
CV-H5N



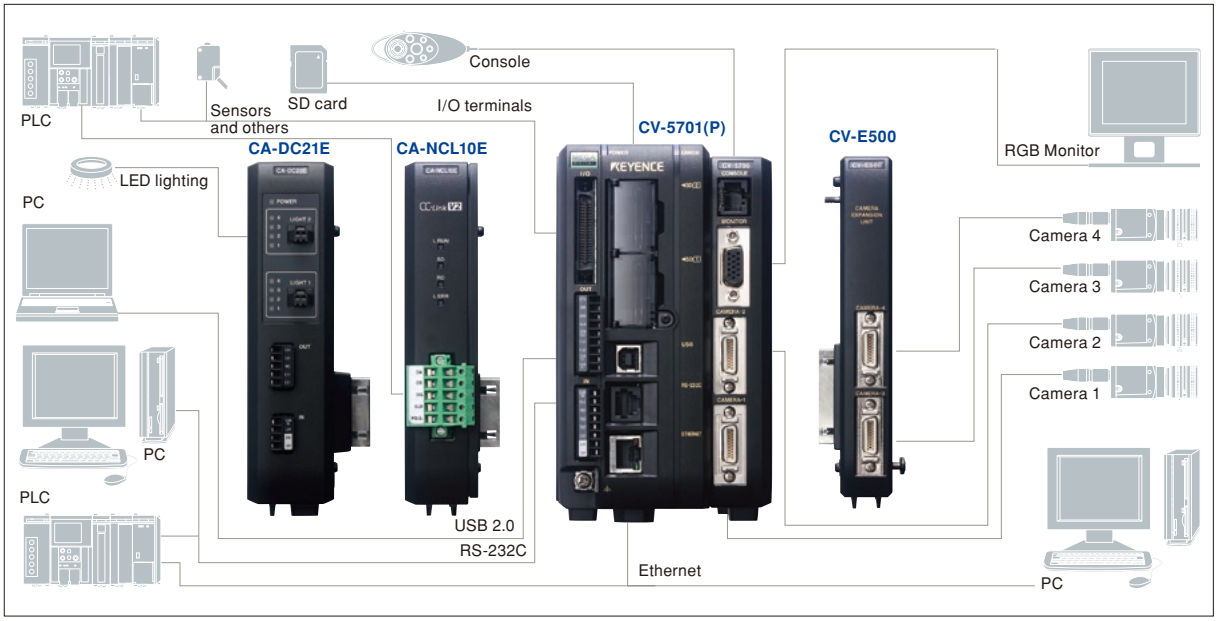
Windows 7
(Home Premium, Professional, Ultimate, Enterprise)
*The **CV-H5N** is available for download online.
*Windows 7 is a registered trademark of Microsoft Corporation of U.S.A. (America).



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CV-5000 Intuitive Vision System

System configuration diagram



Options

Camera Cables



Camera cables

Type	Connector shape	Cable length 1 m	3 m	5 m	10 m	17 m	Extension cable
Standard-speed camera cable	Straight	CA-CN1	CA-CN3	CA-CN5	CA-CN10	CA-CN17*	—
	L-type	—	CA-CN3L	CA-CN5L	CA-CN10L	CA-CN17L*	—
Standard high flex robot cable	Straight	—	CA-CN3R	CA-CN5R	CA-CN10R	CA-CN17R*	CA-CN7RE (7 m)
High-speed camera cable	Straight	—	CA-CH3	CA-CH5	CA-CH10	—	—
	L-type	—	CA-CH3L	CA-CH5L	CA-CH10L	—	—
High-speed high flex robot cable	Straight	—	CA-CH3R	CA-CH5R	CA-CH10R	—	—

* Cables cannot be used with 2 Mega pixel cameras.

Extension Cables

Camera cables may be extended up to 51 m or 31 m.

The maximum extension length varies according to the camera model.



The dedicated extension cable is necessary in order to connect a repeater to a camera or a repeater to a repeater.

Amplifier for extension cables
CA-CNX10U
(for standard cameras)
CA-CHX10U
(for high-speed cameras)



Extension cables (camera to amplifier)

Type	Cable length 3 m	10 m	17 m
Standard-speed camera cable	CA-CN3X	CA-CN10X	CA-CN17X
Standard high flex robot cable	CA-CN3RX	CA-CN10RX	CA-CN17RX
Standard L-type cable	CA-CN3LX	CA-CN10LX	CA-CN17LX
High-speed camera cable	CA-CH3X	CA-CH10X	—
High-speed high flex robot cable	CA-CH3RX	CA-CH10RX	—

Cables must be used with dedicated amplifier.

Accessories

Monitor cable
OP-66842 (3 m)
OP-87055 (10 m)



Industrial SD card
CA-SD16G: 16GB
CA-SD4G: 4 GB
CA-SD1G: 1 GB
OP-87133: 512 MB



Parallel I/O & Data Output Cables

Parallel I/O cable
OP-51657 (3 m)



1 Gbps Ethernet cable
OP-66843 (3 m)

USB cable
OP-66844 (2 m)

RS-232C communication cable
OP-26487 (2.5 m)



RS-232C cable conversion connector
OP-26486: 9 pins
OP-26485: 25 pins
9 pins for SYSMAC: **OP-84384**
9 pins for MELSEC: **OP-86930**



LED Lighting Cables

Y split cable
CA-D1W (1m)



Connector to terminal
OP-84457 (1m)



Standard cable
CA-D2 (2 m)
CA-D5 (5 m)

High flex robot cable
CA-D3R (3 m)
CA-D5R (5 m)
CA-D10R (10 m)
CA-D17R (17 m)

New Products
Fibreoptic Sensors
Photoelectric Sensors
Proximity Sensors
Safety/ Area Sensors
Pressure Sensors
Measurement Sensors
PLCs/ Touch Panels
Servo Systems
Static Eliminators
Vision Systems
Marking Equipment
Code Readers
Handheld Mobile Computers
Microscopes
Projector



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Options



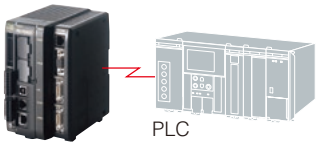
Save to mass-storage SD cards
Equipped with slot 2 base, with a maximum of 32GB available.



USB 2.0 connector
USB 2.0 allows for quick transfer of image data and settings from your PC. No setup necessary. Ready to use on-site.



RS-232C communication
Enables a PLC link with PLCs made by other manufacturers. Communicates directly with PLC data memory without additional ladder programs.



Camera connector
The camera cable connection is recessed to minimise dead space when mounted inside control cabinets.



Illumination control expansion unit
This connector is for the illumination control expansion unit **CA-DC21E** and CC-Link unit **CA-NCL10E**.



Camera expansion unit connector
Connects the camera expansion unit **CV-E500** when 3 or 4 cameras are used.



EtherNet/IP™ Communication
EtherNet/IP™ communication is enabled through the Ethernet port so that data can easily be sent to PLCs, or other EtherNet/IP™ devices.



Related Products

Entry type, equipped with all basic functions

This type is equipped with basic functions to provide the same rich utility as the CV-X100 Series.

CV-X100E



- Supports multiple languages
- Camera Installation Replication
- Adjustment Navigation
- FTP output function
- User Manual Auto-Generator function



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