IV3-G600CA

Industrial automation components

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Manufacturer	Keyence
Catalog number	iv3-g600ca
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Keyence
Part Number	IV3-G600CA
Image Sensor Type	1/2.9-inch color CMOS
Image Resolution	1280 x 960 pixels
Focus Adjustment	Auto
Exposure Time Range	12 µs to 9 ms
Illumination Type	White LED
Lighting Mode	Pulse/Continuous lighting switchable
Enclosure Rating	IP67
Operating Temperature Range	0°C to +50°C (32°F to 122°F)
Operating Humidity Range	35% to 85% RH (non-condensing)
Vibration Resistance	10 to 55 Hz; double amplitude 1.5 mm for 2 hours in each direction

Description

The Keyence IV3-G600CA is a compact vision sensor head designed for wide-field applications, featuring a color autofocus (AF) system. It is part of the IV3 series, which integrates artificial intelligence to enhance image processing capabilities.

This sensor head is suitable for various industrial automation tasks requiring precise vision sensing. Key features of the IV3-G600CA include: - **Wide Field of View**: At an installation

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distance of 50 mm (1.97 inches), it offers a field of view measuring 51 mm (2.01 inches) horizontally and 38 mm (1.50 inches) vertically.

At 3000 mm (118.11 inches), the field of view expands to 2730 mm (107.48 inches) horizontally and 2044 mm (80.47 inches) vertically. - **High-Resolution Imaging**: Equipped with a 1/2.9-inch color CMOS image sensor, it captures images at a resolution of 1280 x 960 pixels, ensuring clear and detailed visuals. - **Auto Focus Adjustment**: The sensor head features automatic focus adjustment during installation, with the ability to register different focus positions for each program, enhancing setup flexibility. - **Exposure Time Range**: It supports exposure times ranging from 12 µs to 9 ms, accommodating various lighting conditions. - **White LED Illumination**: The built-in white LED provides consistent lighting, with selectable pulse or continuous lighting modes to suit different application needs. - **Environmental Durability**: With an IP67 enclosure rating, the IV3-G600CA is designed to withstand harsh industrial environments.

It operates effectively within a temperature range of 0°C to +50°C (32°F to 122°F) and a humidity range of 35% to 85% RH (non-condensing). The sensor head also offers resistance to vibrations (10 to 55 Hz; double amplitude 1.5 mm for 2 hours in each direction) and shocks (500 m/s², 3 times in each of the 6 directions), ensuring reliable performance in demanding conditions. - **Compact and Lightweight Design**: The sensor head weighs approximately 75 g (2.65 oz) without the AI lighting unit and 225 g (7.94 oz) with the AI lighting unit, facilitating easy integration into various setups.

For detailed specifications and additional information, please refer to the official Keyence product page.