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BX-P5G-30C-XC3, Bumblebee® X, IP67 5GigE Stereo Vision Camera

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Teledyne Imaging FLIR/IIS Bumblebee® X Stereo Vision Cameras - Front



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Color **Spectrum:**

General

Color Camera **Type:**

BX-P5G-30C-XC3 **Model Number:**

Manufacturer:

FLIR

Bumblebee®, IP67

Camera Series:

Field of View (°):

60

Physical & Mechanical Properties

Dimensions (mm):

304 x 64 x 41 (excludes connectors and lens mount)

Weight (g):

900

Housing:

Full

Baseline Distance (mm):

240.00

Optical Properties

Depth Accuracy (1m) :

1mm (0.1%)

Depth Accuracy (2m):

4mm (0.2%)

Depth Accuracy (3m):

25mm (0.5%)

Working Distance (m):

20

Sensor

Sensor Format:

1/1.8"

Resolution (Megapixels):

3.00

Frame Rate (fps):

16.00

Pixel Size, H x V (µm):

3.45 x 3.45

Imaging Sensor:

Sony Pregius

Type of Sensor:

IMX265 CMOS

Shutter Type:

Global

Machine Vision Standard:

GigE Vision v2.0

Electrical

Power Consumption (W):

14.5

Hardware & Interface Connectivity

Interface:

5GigE (PoE)

Connector:

M12 X-coded 8-pin for Ethernet, 12-pin GPIO

Power Supply:

Power over Ethernet (PoE) or via GPIO with 10-24V Power Supply

GPIOs:

1 opto-isolated input, 1 opto-isolated output, 4 non-isolated input

Synchronization:

Hardware Trigger (GPIO) or Software Trigger

Interface Port Orientation:

Back Panel

GPIO Connector Type:

12-pin Hirose (HR10)

Threading & Mounting

Mounting Threads:

1/4-20, M4

Environmental & Durability Factors

Operating Temperature (°C):

-10 to +50

Storage Temperature (°C):

-30 to +60

[View](#)

Product Details

- High Accuracy Depth Sensing
- Low Latency and Wide Baseline Distance for Real-Time Applications
- IP67 Industrial Rated
- Onboard Processing
- Comprehensive [SDK](#) Available

Teledyne Imaging FLIR/IIS Bumblebee® X Stereo Vision Cameras are IP67 rated color stereo cameras that are factory calibrated to a 240mm baseline distance with 3-megapixel (MP) sensors for high accuracy. These cameras feature onboard processing and, combined with the comprehensive Spinnaker® 3D SDK, can output depth maps and color data for point cloud conversion and colorization. Designed for superior depth accuracy across a broad working distance of 0.5m to 20m, these cameras are available with a variety of Field-of-View options. Teledyne Imaging FLIR/IIS Bumblebee® X Stereo Vision Cameras are available in a 5Gige interface and feature a Sony Pregius 1/1.8" sensor with 3.45µm pixels. The low latency of these cameras makes them ideal for real-time applications, including warehouse automation, autonomous mobile robot (AMR), automated guided vehicle (AGV), pick & place, bin picking, and palletization applications.

Bumblebee X is currently supported under Windows and Linux (Desktop and ARM processors) using Spinnaker SDK (Version 4.2+). Under this software release, customers can stream the two raw images, rectified images, as well as the camera generated disparity images. Image feeds and camera settings are accessible using our familiar SpinView GUI application. A ROS2 plugin is also provided.

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