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Spectrum:

General	
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Type:

Model Number:

FLIR	Manufacturer:
Bumblebee®, IP67	Camera Series:

105	Field of View (°):
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Physical & Mechanical Properties	
304 x64 x38 (excludes connectors and lens mount)	Dimensions (mm):
900	Weight (g):

Full	Housing:
240.00	Baseline Distance (mm):

Optical Properties	
3mm (0.3%)	Depth Accuracy (1m) :
15mm (0.75%)	Depth Accuracy (2m):

89mm (1.8%)	Depth Accuracy (3m):
20	Working Distance (m):

Sensor	
1/1.8"	Sensor Format:
3.00	Resolution (Megapixels):

20.80	Frame Rate (fps):
3.45 x3.45	Pixel Size, H x V (µm):

Sony Pregius	Imaging Sensor:
IMX265 CMOS	Type of Sensor:

Global	Shutter Type:
GigE Vision v2.0	Machine Vision Standard:

Electrical	
14.5	Power Consumption (W):

Hardware & Interface Connectivity	
5GigE (PoE)	Interface:
M12 X-coded 8-pin for Ethernet, 12-pin GPIO	Connector:

Power over Ethernet (PoE) or via GPIO with 10-24V Power Supply	Power Supply:
1 opto-isolated input, 1 opto-isolated output, 4 non-isolated input	GPIOs:

Hardware Trigger (GPIO) or Software Trigger	Synchronization:
Back Panel	Interface Port Orientation:

12-pin Hirose (HR10)	GPIO Connector Type:
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Threading & Mounting	
1/4-20, M4	Mounting Threads:

Environmental & Durability Factors	
-10 to +50	Operating Temperature (°C):
-30 to +60	Storage Temperature (°C):

View	Certificate of Conformance:
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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 and 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.