



DeepSea Introduces the SmartSight™ Machine Vision Camera Product Family

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Starting in 2022, DeepSea began working with industry partners to develop a line of machine vision cameras tailored to the growing needs of subsea leaders in autonomy, machine learning, and AI. These collaborations and listening campaigns have produced the new SmartSight™ camera platform. The platform combines best-in-class machine vision components with DeepSea’s proven subsea imaging design capabilities.

The SmartSight™ MVI camera is the first in a new category of products from DeepSea designed to push the adoption and ease of implementation of machine vision systems into next-generation autonomous platforms. System architects now have an off-the-shelf solution to add computer vision components to their designs, freeing them up to focus on the value-add autonomy, object recognition, navigation, and inspection technology that sets them apart.

Key Features

- Industry standards compliant for GigE Vision
- Multiple sensors available from 0.4MP up to 5MP
- Global shutter, color and monochrome options
- Range of focal lengths from 6mm to 2.7mm
- Robust titanium housing with optical glass dome or flat port options
- Up to 6km depth rating
- Discrete power and Power over Ethernet options
- Digital input and output channels for triggering and event synchronization
- Compatible with LED SeaLite SeaStrobe lights

Configuration Table:

Sensor Options		Lens Options						
Resolution	Pixels	6mm F/5.6		4.3mm F/2.8		2.7mm F/2.9		2.3mm F/2.8
		Flat	Dome	Flat	Dome	Flat	Dome	Dome
0.4 MP	728 x 544	32°	46°	67°	67°	67°	101°	117°
1.6 MP	1440 x 1080	32°	46°	67°	67°	67°	101°	117°
2.3 MP	1920 x 1200	40°	60°	88°	80°	80°	129°	125°
3.2 MP	2048 x 1536	43°	63°	94°	83°	83°	137°	-
5.0 MP	2448 x 2048	41°	60°	89°	81°	81°	131°	-