3D vision: Expanded field of view and more image details

3D camera series: Ensenso X models with 5 MP resolution cameras

IDS Imaging Development Systems GmbH now offers the modular Ensenso X 3D camera system with high-resolution 5 MP industrial cameras featuring the IMX264 CMOS Sony sensor. Compared to the currently available 1.3 MP sensors, they allow for an expanded field of view, higher resolution and lower noise levels. As always, the models of the 3D camera family are easy to set up and operate via the EnsensoSDK.

The Ensenso X 3D camera system consists of a powerful 100 watt projector, to which two industrial cameras can be mounted at variable distances. Applications range from factory automation (e. g. Bin Picking) to warehouse and logistics automation (e. g. pallet picking). The 3D camera system is now even more flexible and powerful thanks to the latest developments: both new 5 MP cameras and an updated software development kit are now available.

Thanks to the larger field of view of the 5 MP sensors, for example, the distance between the camera system and object can be reduced: In order to completely capture a packed Euro pallet with a volume of 120 x 80 x 100 cm, a distance of only 1.25 m instead of 1.5 m is required. The Z-accuracy improves from 0.43 mm to 0.2 mm. Further advantages of the new models include an increase of up to 35% in lateral resolution with more than 30% lower noise, so that details and depth information can be captured even more precisely.

With the new Ensenso X models users can choose between compact GigE uEye CP cameras and robust GigE uEye FA cameras with IP65/67 protection class – in just the same way that is possible with the 1.3 MP systems. The new cameras use the GigE Vision standard to communicate with the pattern projector. This eliminates the need for an additional installation of the IDS Software Suite.

About 1,700 characters (with spaces)

Illustration (© IDS Imaging Development Systems GmbH):

IDS expands Ensenso X series with 5 MP industrial cameras with IMX264 CMOS sensor from Sony

Product link:

https://en.ids-imaging.com/ensenso-3d-camera-x-series.html

About IDS Imaging Development Systems GmbH:

The industrial camera manufacturer IDS Imaging Development Systems GmbH develops high-performance, easy-to-use USB, GigE and 3D cameras with a wide spectrum of sensors and variants. The almost unlimited range of applications covers multiple non-industrial and industrial sectors e.g. in the field of equipment, plant and mechanical engineering. In addition to its successful CMOS cameras, the company expands its portfolio with vision app-based sensors and cameras. The novel image processing platform IDS NXT is freely programmable and extremely versatile.

Since its foundation in 1997 as a two-man company, IDS has developed into a globally leading, independent, ISO-certified family business with more than 240 employees. The headquarters in Obersulm, Germany, is used for development as well as production. With subsidiaries in the USA, Japan and UK as well as further offices in Europe and Asia, IDS is represented internationally.

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