

WHITE PAPERS & APPLICATION NOTES

From hyperspectral data to a working end-user application in the

Apperspectral technology is suitable for sorting and quality contr relactries including, but not limited to, peology, agriculture, food scycling, places, and phormocoutcols.

Traditionally, the nameround time from the acquisition of hyperspectral data for a specific application to having developed a working eigenthin connect for a given application is very long. The time to have that model implement ends and sorting or refing the products in real-time is even longer!

dvances in hyperspectral technology have paved the way for sking this process a lot easier, factor, and cheaper.

shbroom architecture captures a narrow line of the spatial s

Many other architectures do not capture all spectral information of the same pixel at the same time, which will compromise the quality of the data if the lata cannot be reconstructed to a very high scoursey. A good optical and option enchanical substroom design will yield better spectral fidelity ser pixel shan other optical architectures.

robustrial carnera index, the industrial hyperspectral market is looked with carneras that have a lot of spectral and patal obnovions with blury optics. Such a system will perform unreliably and limit the capabilities of

To combat this problem, the Injugox Baldur kine of camera has a spectral resolution of exactly 2 bands, making it spectrally more reportable to expend spectral shallow, while presenting spatial sharp seas. All listilist instruments ofter affarctability without compromising data earliefy that is, all buildint violations distortions, making them ideal for industrial applications.

When selecting a hyperspectral cumers for an application, the most important factor is determining the smallest object to be detected. A camera offering at least two effective plack per object to an electronic should be charant. The stop of the conveyor belt, for occupie, will ceitine how wrant effective piecla and, thus, native people for that systems, are needed for the specific application.

From Hyperspectral Data to a Working End-user Application in the Industry

This white paper covers the past challenges of using hyperspectral imaging in industrial, machine vision applications. Newer technology is not all created equally and this paper aims to guide the reader in important aspects of choosing a system, considering a new value proposition that takes into account all types of hyperspectral technologies on the market today. It also discusses the importance of hardware and software integration, along with having applicationspecific support from a manufacturer. All these factors together determine degree and speed of success in implementing a hyperspectral system for machine vision applications.

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