**HySpex, NEO:** New Baldur camera for industry use; **OTHER NEWS:** LightMachinery, BOFA and SPI

**WHAT’S IN MY INBOX?** Australia in the ‘space race’; Raymax publicity!

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**Introducing the new Industrial Baldur**

On Tuesday 24th September 2019, HySpex announced the release of their new camera, the **Industrial Baldur**.

HySpex line of hyperspectral cameras, are well-proven, robust, compact, high performance and versatile instruments for a multitude of applications, ranging from airborne to laboratory, field and industrial use of imaging spectroscopy.

HySpex NEO is aware the hyperspectral camera market is at a turning point across the globe, due to the introduction of Industry 4.0, of the need for safe sustainable food, and the demands for personalized healthcare and efficiencies in mining. The predicted success of this growth lies in the availability of the latest technology supported by software solutions offering advanced analysis of specific applications designed to support individual end-users. This is now available through the HySpex/Prediktera collaboration.

HySpex offers a complete solution to industry groups with Prediktera software that provides an integration of hardware and data processing software, bridging the gap between the collection of high-quality hyperspectral data and end-user results in real field applications of industrial solutions. Turnkey solutions provide user flexibility across three options available in the **Baldur** cameras. All Baldur cameras are Nyquist cameras giving a spectral resolution of 2 spectral bands while capturing 4 times as much light as the classic systems. Additionally, the spatial resolution is better than 1.7 pixels for all Baldur models, yielding very sharp cameras, albeit not to the extremes of the HySpex classic and Mjolnir cameras. User flexibility lies in the option to trigger the camera both internally and externally meaning it is suitable for in-line, on-ground or flight usage.

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**HySpex Baldur V-1024N**
Covers the full NVIR spectral range from 400-1000nm and is configurable within one octave in the same range. Spectral resolution is 2 bands; spatial resolution better than 1.7 pixels = a very sharp camera!

**HySpex Baldur S-640i N**
Covers the spectral range from 950-1730nm. Spectral resolution is 2 bands; spatial resolution better than 1.5 pixels.

**HySpex Baldur S-384 N**
Baldur S-384 N is configurable within one octave in SWIR spectral range from 950-2500nm. Spectral resolution is 2 bands; spatial resolution better than 1.3 pixels.

For more information on this exciting new development in hyperspectral imaging contact Dr Cédric Chaminade on cedricc@raymax.com.au
OTHER NEWS!

LightMachinery Service:
LightMachinery wish to announce the availability of service of the Coherent LPXPro range of excimer lasers and its variant the JouleX laser from JPSA Laser. Replacement laser tubes and heads for both of these systems and in some cases, replacement components such as thyratrons, power supplies and optics will be provided by LightMachinery. We envisage LightMachinery will extend this capability to other components and to other Coherent product lines in the future.

Should you require service of a Coherent LPXPro or the JouleX laser please don’t hesitate to contact Raymax.

BOFA: Spark Arrestor 2
A new BOFA filter system that prevents burning particulate from entering the fume extraction unit. Certain industrial processes present a persistent risk of embers or self-igniting particulate. BOFA’s new Spark Arrestor 2 is designed to promote work safety by mitigating risk.

How it works: Hot burning particulate is transported through the specially designed impingement plates positioned within the airflow, slowing the burning particulate down until it finally drops into the removable drop-out chamber, so protecting the fume extractor.

SPI Lasers
In 2019 SPI Lasers were approached by Pyramid Engineering to supply an evaluation laser for a new welding system being developed for a telecommunications customer

As a leading designer & integrator of high precision welding systems for the hermetic sealing of metal-can semiconductor and electronic packages, Pyramid were looking to replace their existing flashlamp pumped Nd:YAG laser sources, in order to offer their customers enhanced levels of speed, productivity and cost effectiveness.

In SPI Lasers they found the ideal range of products based on the redPOWER CW range of high power fiber lasers, offering the perfect blend of quality, repeatable laser sources combined with excellent customer service.


WHAT’S ON?

EMO the world’s premier trade fair for the metalworking industry has just concluded in Hannover, Germany.

EMO Hannover’s exhibitors have long been accustomed to aligning their innovation cycles to the world’s leading metalworking trade fair, where more innovations are unveiled than at any other metalworking event – making EMO Hannover a key point of reference for decision-makers in the production technology sector.

If you didn’t get to Hannover - there are still videos and product information on the web site!

FORMNEXT – in Frankfurt, Germany 19 to 22 November. Book your ticket now to the entire world of additive manufacturing !!!

WHAT’S IN MY INBOX?

The Australian Government’s determination to crack into the US$350 billion global space market has seen it sign a $150m deal over five years with NASA. The investment will accelerate the government’s target of tripling the size of the Australian space sector, and see Australia join the United States’ Moon to Mars exploration approach, including NASA’s Artemis lunar program.

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