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### **THE RANGER3 CAMERA – SICK’S POCKET-SIZED POWERHOUSE**

SICK has pushed forward the boundaries of 3D vision inspection in a wide range of industrial applications with the launch of the SICK Ranger3 camera, thanks to a breakthrough CMOS sensor that powers unprecedented high-speed image processing in a compact device.

SICK’s Ranger3 high-definition streaming camera is the first to be powered by SICK’s innovative Imager with ROCC (Rapid On-Chip Calculation technology). Faster than any comparable device on the market, its next-generation technology is capable of capturing 7000 profiles per second at full sensor acquisition.

The Ranger3 extracts the true 3D shape of an object, regardless of its contrast or colour and as a result achieves 3D measurement with unprecedented accuracy, enabling operators to achieve reliable quality inspection at more rapid throughputs.

The SICK Ranger3’s outstanding performance on light, dark, reflective and contrasting surfaces makes it ideal for a wide range of inspection duties in metal production, electrical and electronics, road and rail vehicles and tracks, tyres and auto components, and food and beverage and packing industries

The SICK Ranger3 ROCC technology enables faster and more precise shape, volume and position measurements even for large depths of field or height variations. By having analogue to digital conversion of the signals on the M30 CMOS sensor itself, and sending the accurate data directly to a controller or a standard PC, the ROCC process greatly increases the application possibilities for high speed 3D quality inspection.

The Ranger3 camera delivers a continuous stream of GigE and GenICam-compliant data with a wide variety of 2D and 3D data generation options, as well as measuring reflectance and scattered light.

Compact and rugged, the SICK Ranger3 is easily built into standalone inspection units or integrated into automatic quality control systems with other sensing devices, such as encoders, photoelectric switches, light curtains and scanners.

“The SICK Ranger3 is built around our new M30 CMOS sensor, which is seven times as sensitive as anything SICK has used before in its vision cameras,” says Neil Sandhu SICK (UK) vision specialist.

“This means that lighting is never going to be an issue, even with low contrast dark objects at high speeds.

“The SICK Ranger3’s sensor acquires 3D profiles over 2560 coordinates at 1/16 subpixel resolution, for very high definition, even on very dark or reflective surfaces, for an outstanding imaging dynamic range.”

The SICK Ranger3 3D vision camera is a compact (55x55x77mm) metal housing unit holding a SICK M30 CMOS ROCC sensor with a resolution of 2560 x 832 pixels, capable of capturing 7000 full frame profiles and processing up to 15.4 Gigapixels a second; data output is GigE Vision and GenICam compliant, and there is a Gigabit Ethernet interface.

The SICK Ranger3’s industrial housing is available with either IP65 or IP67 protection, has M5 mounting points on four sides, and M12 industrial connectors with GigE and power I/O. The combination of features allows easy mechanical, communication and electrical connection with SICK 4D*pro* accessories and standard industrial systems.

The new modular Proflex lens mounting system of the SICK Ranger3 comprises a Scheimpflug adapter to create an optimized angle for sharp images, an exchangeable optical filter and C-mount lens holder, for a very comprehensive choice of lens and filter types to match the ambient and application conditions. IP65/67 protective lens hoods are also available.

For more information on the SICK Ranger3 3D vision camera, please contact Andrea Hornby on 01727 831121 or email [andrea.hornby@sick.co.uk](mailto:andrea.hornby@sick.co.uk).

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