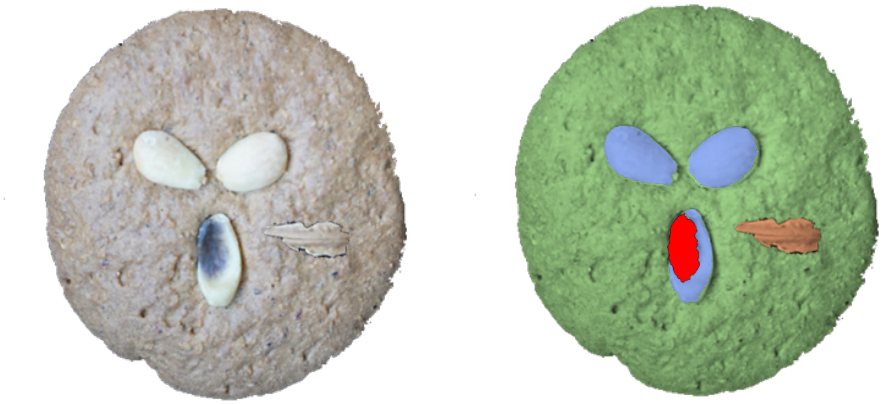
ColEx & REDEYE

Colour Extension RGB Camera Adapter For RedEye

Introducing **ColEx**, the **Col**our **Ex**tension adapter for our **RedEye** models (1.7, 1.7 HighRes, and 1.9). With its RGB camera and innovative dichroic beamsplitter, ColEx adds colour information to the RedEye‘s NIR spectral data for enhanced analysis. Experience simultaneous data acquisition with a combined system, eliminating the need for multiple cameras.

ColEx revolutionizes sorting and assessments, providing vital colour information alongside chemical parameters. From colour-specific PET identification in recycling to fruit sorting based on both composition and colour, make precise decisions in a single step. The high-resolution RGB camera helps sharpening borders and enhancing features in the NIR data, thereby elevating the RedEye‘s imaging performance.

Choose from our range of compatible RGB cameras, such as IDS and Lucid, for a seamless integration into your software. With adaptable lens combinations and meticulous alignment by **Inno-Spec**, achieve optimal results. Enjoy high light throughput, fast data acquisition, high frame rates, and exceptional imaging with ColEx — a comprehensive solution for superior spectral and colour analysis.



Synchronous colour and material-based quality control in baked goods

The ColEx enhances the RedEye, our superior NIR hyperspectral camera, by introducing a unique feature that adds a new dimension to its high-quality spectral information.

In the robust ColEx adapter, a dichroic beam splitter efficiently directs the visible spectrum to an RGB camera while allowing the NIR spectrum to reach the RedEye.

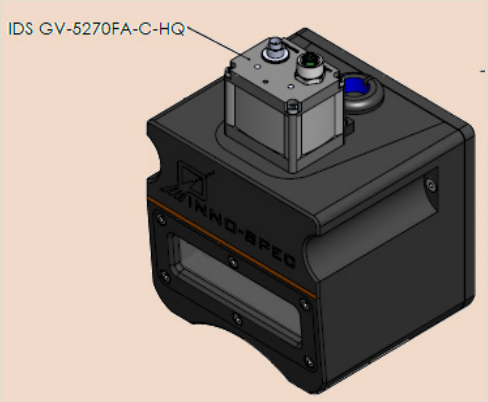
As a result, the NIR spectral data is supplemented with colour data, as both cameras function together at the same speed and monitor the same line.

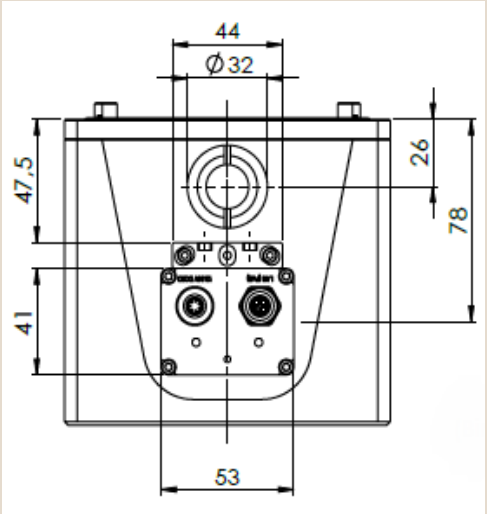
With a wide range of lens combinations to choose from, you can easily adapt to your specific recording needs.

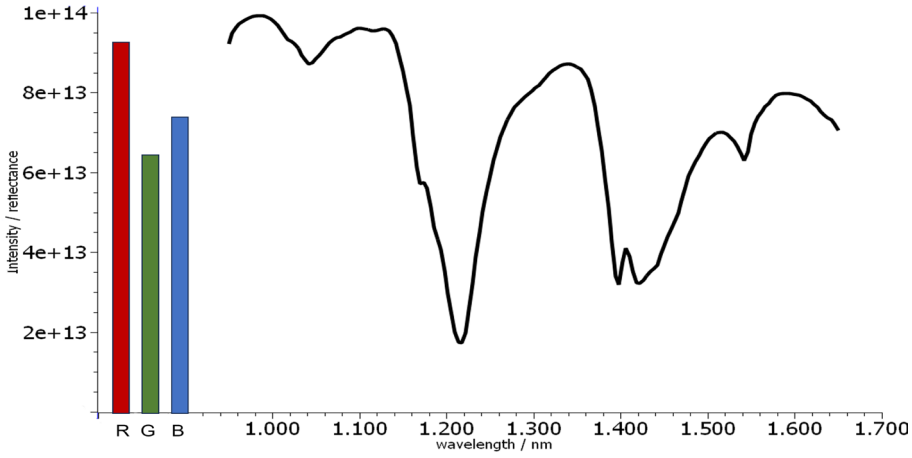
Website **LinkedIn**

Technical Specifications:

	ColEx with IDS GV-5240FA	ColEx with IDS GV-5270FA	ColEx with Lucid Triton
Electronics			
Sensor		CMOS with Bayer filter	
Spatial pixels	1280	2064	2048
Usable pixels		85-100%, depending on lens combination	
Pixel size	5.3 µm x 5.3 µm	3.45 µm x 3.45 µm	3.45 µm x 3.45 µm
Bit depth	10 bit	12 bit	12 bit
Frame rate		> 340 fps	
Data interface		Gigabit Ethernet (GigE Vision standard)	
Power supply		12 - 24 VDC or PoE	
Operating Conditions			
Temperature (operating; in combination with RedEye)		0°C to +40°C	
Temperature (storage; in combination with RedEye)		-5°C to +50°C	
Mechanics			
Dimensions ColEx adapter without camera l x w x h		118 x 130 x 126	
Additional height for RGB camera	53	53	32
Weight		1.5 kg	
Lens mount		standard C-mount	







As a well-established manufacturer of spectroscopic measurement equipments, **INNO-SPEC** provides optimized solutions for your individual applications; for example, customized OEM cameras for machine builders & system suppliers.

Please note that any specs on the data sheet are subject to change without notice.