



PRODUCT DATA SHEET

BLACKINDUSTRY STATION



Industry cameras compatible



Integrated Touch-screen

Up to 370 mm/min



Adjustable speed

Ready to use



Included Software Tools



Network connection



The BlackIndustry Station is a ready-to-use scanning system for hyperspectral imaging, designed for laboratory use, research and at-line inspection tasks. It enables fast and reliable acquisition of hyperspectral data under controlled conditions and provides an ideal platform for developing, testing and validating new applications. It also supports high-throughput measurements for industrial use cases. By combining camera mounting, illumination and sample movement in a single system, the BlackIndustry Station offers an easy solution for hyperspectral data acquisition and analysis.

BLACKINDUSTRY STATION

TECHNICAL DATA

SIZE (W x D x H)	530 x 580 x 640 mm	ILLUMINATION	2 x BlackBright FMWIR 500 mm
WEIGHT	16.7 kg	CONNECTION	Ethernet
STAGE SIZE	310 x 310 mm	POWER INPUT LINEAR STAGE	24 V
MAX. SAMPLE WEIGHT	5 kg	POWER CONSUMPTION LS	15 W
STAGE SPEED	1 - 370 mm/min	POWER INPUT ILLUMINATION	100 - 277 VAC
STAGE MOVING DISTANCE	310 mm	POWER CONSUMPTION IL	600 W
		CONTROL INTERFACE	Touchscreen / BlackStudio / Web

FEATURES






- Ready-to-use system
- Motorised linear stage
- Adjustable speed
- Compact design
- Control via touchscreen and web interface
- Compatible with BlackIndustry series
- Integrated illumination
- BlackStudio integration

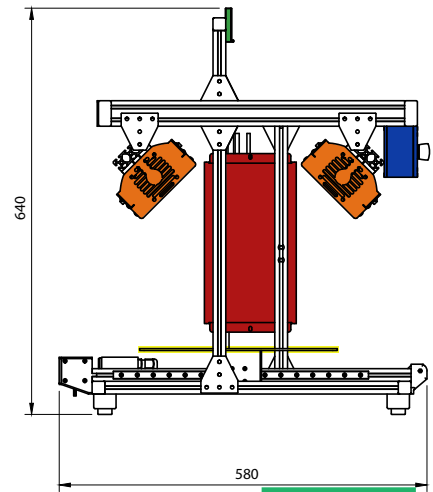
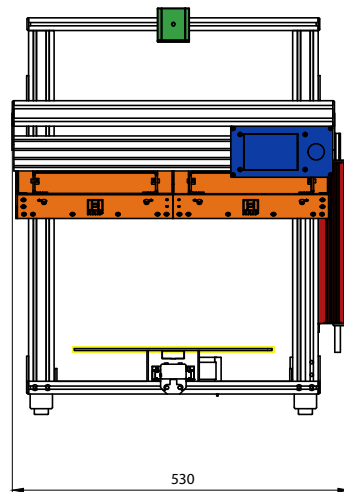
APPLICATIONS

INDUSTRIAL AND RESEARCH USE CASES

- Material classification
- Feasibility studies
- Chemometric model development
- At-line inspection
- High throughput measurements

TECHNICAL DRAWING



-  Camera mount
-  Control unit
-  Power supply
-  Linear stage
-  BlackBright FMWIR





BLACKINDUSTRY STATION

HAIP PRODUCTS INCLUDED*

NAME	DESCRIPTION	LINK
 BLACKBRIGHT FAST MEDIUM WAVE IR	The illumination unit is designed for industrial integration and specifically developed for the BlackIndustry SWIR 1.7 series. The increased focus results in higher signal strength and enables very precise hyperspectral imaging up to 1730 nm.	BLACKBRIGHT FMWIR
 BLACKBRIGHT RGB LED BAR*	The illumination is specifically developed for industrial integration in combination with BlackIndustry RGB. Tailored for integration in industry, it integrates RGBWW COB LEDs for high colour saturation.	BLACKBRIGHT RGB LED BAR**

HAIP PRODUCTS COMBINED

NAME	DESCRIPTION	LINK
 BLACKINDUSTRY RGB	A smart multi-line-scan colour camera optimised for seamless integration with the BlackIndustry SWIR 1.7 series. Together, both sensors enable the simultaneous acquisition of 4K RGB line-scan data and SWIR hyperspectral information.	BLACKINDUSTRY RGB
 BLACKINDUSTRY SWIR 1.7 SERIES	A smart line scanning near-infrared hyperspectral imaging camera series covering a wavelength range of 950 up to 1730 nm. It allows the acquisition of real-time spectral data with very high spatial resolution (640 - 2560 px) and seamless integration with the BlackIndustry RGB.	BLACKINDUSTRY SWIR 1.7 MAX
 BLACKINDUSTRY VNIR	A smart line scanning visible and near-infrared hyperspectral imaging camera that allows the acquisition of real-time spectral data with high spatial resolution up to 1920 px. The outstanding sensitivity in the NIR range from 700 nm to 1000 nm is perfect for the use in industrial in-line application.	BLACKINDUSTRY VNIR
 BLACKSTUDIO SOFTWARE	The powerful free software enables live analysis, visualization, data management, and on-camera classification through flexible tools tailored to industrial sorting and inspection workflows.	BLACKSTUDIO SOFTWARE

* The Blackbright RGB LED illumination is optional. Further information can be found in the order information on the next page.
** Available to order. Coming soon to our website.








BLACKINDUSTRY STATION

ORDER INFORMATION

Use the following guideline to order a BlackIndustry Station with your individual preferences. For example, you will get a BlackIndustry Station by default with a BlackIndustry FMWIR illumination with Bandpass filter and no RGB illumination:

3041-01-00

	NAME	DESCRIPTION	OPTION	CODE
	PRODUCT NUMBER	BlackIndustry Station		3041
	ILLUMINATION	Choose your needed illumination option here.	FMWIR with bandpass filter + glass	01
			FMWIR with glass	02
			FMWIR with wire mesh	03
			Halogen with glass	04
			Halogen with wire mesh	05
	RGB ILLUMINATION	Choose your needed RGB illumination option here.	no	00
			yes	01

