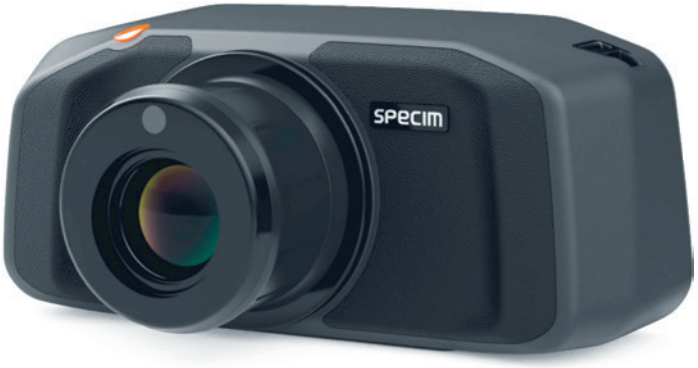
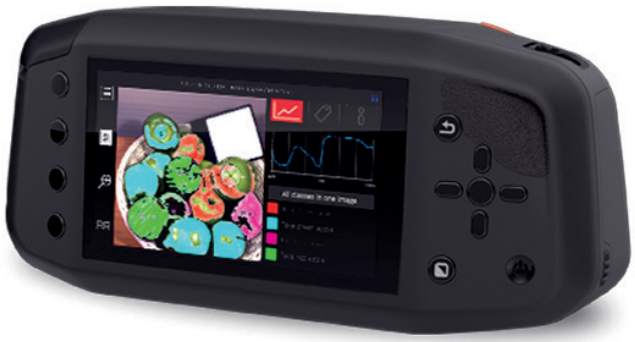
Specim IQ
Hyperspectral goes mobile

Capture image and view results immediately on the camera display

Specim IQ is a portable carry on hyperspectral camera that contains features needed for hyperspectral data capturing, data processing, and result visualization.





Main features

- Spectral camera
- Viewfinder camera
- Scanner & motor
- Embedded data processing unit
- Operating software for data acquisition and processing
- Replaceable data storage
- Rechargeable battery power supply

Easy to use

1. Go to the target
2. Illuminate
3. Adjust -integration time -focus
4. Shoot
5. See the results

Main functionalities	
Operational modes	Default recording mode Automatic screening mode Application mode (user definable) Time lapse mode
User adjustments	Integration time adjustment Focus adjustment (manual) Metadata and tag addition
Data format	Specim dataset with ENVI compatible data files
Data export	With SD card or through USB connection
Operational time	Appx. 100 measurements with one SD card and battery

Learn more:

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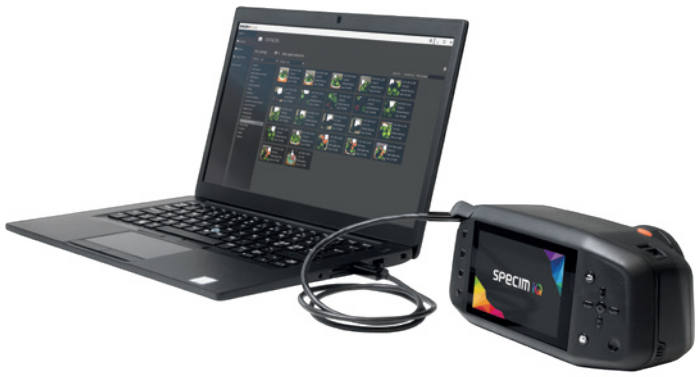
Technical hardware specifications	
Device operation	
User interface sw	by Specim
Device hardware	
Viewfinder camera	5 Mpix
Focus camera	1.3 Mpix
Spectral camera	VNIR 400 - 1000 nm (CMOS)
SD-card reader	UHS-1 SD (Max. 32 GB SD memory card)
Processor	NVIDIA Tegra Kl
CPU	Kepler Mobile
Memory	2 GB DDR3L RAM and 8 GB Emme
Operating voltage	3.7 V
Battery	5200 mAh Li-Ion battery (Type 26650)
User interface	
Buttons	12 physical buttons
Display & keyboard	4.3" touch screen
Buzzer	Indication sounds for the user
Connector	USB Type-C
Dimensions	
Size	207 x 91 x 74 mm (depth with lens 125,5 mm)
Weight	1.3 kg

Spectra camera specifications	
Optical	
F/number	1.7
Wavelength band	400 - 1000 nm
Magnification (sensor/slit)	1/1.3
Keystone	Corrected
Smile	Corrected
Spectral resolution FWHM	7 nm
Input slit length	11.70 mm
Slit height	42 µm
Sensor	
Sensor type	CMOS
Number of pixels in active area (horizontal/spectral)	204 pix
Number of pixels in active area (vertical/spatial)	512 pix
Active pixel pitch	17.58 µm
Data output	12 bit
QE peak	>45%
Full-well capacity	>32000 e-
PeakSNR	>400:1
Objective	
Object distance	100 – ∞ mm
Focal length	21 mm
F/number	2.2
Full field of view	40 deg
Full field of view at1 m	0.5 x 0.5 m
QE peak	>45%
Full-well capacity	>32000 e-
PeakSNR	>400:1

Environmental specifications	
Device operation	
Temperature, operational	+0 °C - +40 °C
Temperature, storage	–20 °C - +50 °C
Humidity operational	95% non-condensing
Standards	
Shock	STD-810G Method 516.6 Precedure VI
EU directive	Radio Equipment Directive2014/53/EU



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