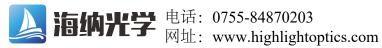


HYPERSPECTRAL GOES MOBILE











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

MAIN FEATURES	
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MAIN FUNCTIONALITIES

Spectral camera	Operational modes	Default recording mode Automatic Screening mode Application mode (user definable)
Viewfinder camera		Time lapse mode
Scanner & motor		Remote usage
Embedded data processing unit	User adjustments	Integration time adjustment Focus adjustment (manual)
Operating software for data acquisition and processing		Metadata and tag addition
Replaceable data storage	Data format	Specim Dataset with ENVI compatible data files
Touch screen display and physical buttons	Data export	With SD card, through USB or WiFi connection
Rechargeable battery power supply	Operational time	Appx. 100 measurements with one SD card and battery

by Specim

TECHNICAL HW SPECIFICATIONS

DEVICE OPERATION

User interface SW

Weight

Viewfinder camera	5 Mpix	
Focus camera	1.3 Mpix	
Spectral camera	by Specim	
Sd-card reader	UHS-1 SD (Max. 32 GB SD memory card)	
Processor	NVIDIA Tegra K1	
Сри	Kepler Mobile	
Memory	2GBytes DDR3L RAM and 8GB Emmc	
Gps module	U-BLOX GPS/GNSS MAX-M8Q-0	
Operating voltage	3.7 V	
Battery	5200mAh Li-Ion battery (Type 26650)	
WiFi	IEEE Std 802.11 b / g / n	
USER INTERFACE		
Buttons	12+1 physical buttons	
Display & keyboard	4.3" touch screen	
Buzzer	Indication sounds for the user	
Usb connector	USB Type-C	



1.3 kg

电话: 0755-84870203

207 x 91 x 74 mm (depth with lens 125,5 mm)

网址: www.highlightoptics.com

SPECTRAL CAMERA SPECIFICATIONS

OPTICAL

Wavelength band	400 – 1000 nm
F/number at Sensor	F/1.7
F/number at Slit	F/2.2
Magnification (Sensor / slit)	1/1.3
Keystone	Corrected
Smile	Corrected
Spectral resolution	7 nm
Slit Length	11.70 mm
Slit Height	42 μm

SENSOR

Sensor type	CMOS
Spatial Sampling	512 pix
Spectral Bands	204 (with Bin 2x: 102, Bin 3x: 68)
Image resolution	512 x 512 pix
Pixel size	17.58 μm x 17.58 μm
Data output	12 bit
QE peak	>45 %
Full-well capacity	>32000 e-
Peak SNR	>400:1

OBJECTIVE / FRONT LENS

Object distance	150 - ∞ mm
Focal length	21 mm
F/number at Slit	F/2.2
Full field of view (FOV)	31 x 31 deg
Full field of view (FOV) at 1 m	0.55 x 0.55 m
Filter thread	M40.5 x 0,5

ENVIRONMENTAL SPECIFICATIONS

DEVICE OPERATION

IP classification	IP5x
Temperature, operational	+5°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 Directive 2014/53/EU.



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