

Ivesta 3 Series

Technical data

Characteristics	Ivesta 3	Ivesta 3 (C-mount)	Ivesta 3 (Integrated camera)
Optical system, lead-free	10° Greenough using best-corrected central part of the objective		
Zoom	9 : 1		
Viewing angle	35°		
Magnification range*	6.1× - 55×		
Maximum resolution	500 lp/mm		
Maximum numerical aperture	0.167		
Working distance*	122 mm		
Object field diameter*	37.6 mm		
Adjustable zoom limits*	Click-stops: 10×, 20×, 30×, 40×, 50×		Fully coded zoom
Video / photo outlet	–	50 % Video, 50 % visual, permanent	50 % Video, 50 % visual, permanent
Weight (camera only)	1.6 kg	1.8 kg	2.2 kg
Standard objectives, lead-free	Apochromats: 0.5×, 0.63×, 0.75×, .1.6×, 2.0×		
Ergonomic eyepieces, fixed and adjustable, with cups	10× / 23, 16× / 16, 20× / 12		
Ergonomic eyepieces for eyeglass wearers, adjustable, with eyecups	10× / 23, 16× / 15, 25× / 9.5, 40× / 6		
Interpupillary distance*	50–76 mm		
Operating temperature	10° C to 40° C (50° F to 104° F)		
Storage / Transport temperature	-10° C to 50° C (14° F to 122° F)		
Relative humidity for storage / operation	10 % to 90 % (non-condensing)		
Use	For indoor use only		
Pollution degree	2		
Altitude operation	0 m to 2,000 m (0 ft to 6,561 ft)		
Live image on an HDMI monitor	N/A	N/A	at up to 60 fps (3,840 × 2,160 pixels)
Full-screen image capture			at 12 MP
Sensor diagonal			7.81 mm (type 1/2.3" CMOS)
Pixel size			1.55 µm × 1.55 µm
Input			5 V DC / 3 A
Power consumption			15 W
Supported software			Enersight
Color filter			IR-cut coating 650 nm, not replaceable
File formats			JPG, TIF, BMP, MJPNG; for overlays also PNG
Compatibility			USB 3.0, standard USB type C
HD connector			HDMI 2.0a, HDMI plug type A
USB Connectors			4× USB 2 connectors, type A
ON / OFF Button			1× (on rear side of the microscope)
Multicolor status LED			1× (on rear side of the microscope)

* Values with basic outfit (no supplementary lens, 10×/23 eyepieces)

Housing

Characteristics	Value
Material	PC/ABS
Antimicrobial surface	AgTreat™ according to ISO 22196
Protection rating	IP 41

Power supply unit (only applicable to Ivesta 3 (Integrated Camera))

Characteristics	Value
Manufacturer	Sinpro Electronics Co., Ltd., 18F, NO.80, Minzu 1st Rd., Sanmin District, Kaohsiung City 807, Taiwan
Model identification	SPU25A-102
Input voltage	90–264 V AC
Input frequency	47–63 Hz
Output voltage	5 V DC
Output current	max. 3.3 A
Output power	max. 16.5 W
Average active efficiency	82.5 %
Efficiency at high load (10 %)	79.5 %
No-load power consumption	0.014 W