

ii500 Acoustic Imager

Product Specifications

Specifications

Acoustic Sensing and Imaging Number of Microphones Frequency Range	64 digital MEMS			
ii500	2 kHz to 52 kHz			
Operation Distance (depends on ambient conditions)				
ii500	0.5 m to 50 m (1.6 ft to 164 ft)			
Field-of-View (FOV)	63 ° ±5 °			
Nominal Frame Rate	25 FPS			
Visual Camera Resolution				
ii500				
Field of View (FOV)	63 ° ±5 °			
Focus	Fixed lens			
Image Mode	Color and Grayscale			
Display				
Display	7" LCD with backlight, under-sunlight readable			
Resolution	1280 x 800			
Touchscreen	Capacitive			
Acoustic Image	SoundMap™ image overlaps with visual image			
Image Storage				
Memory/Storage Capacity	20 GB			
Image Format				
Video Format				
Save Video	Up to 5 minutes			
Acoustic Measurement and Analysis Sound Pressure Range (typical)				
ii500	$$ 15.4 dB SPL to 115.2 dB SPL ± 1 dB SPL 2 kHz 5.6 dB SPL to 102.5 dB SPL ± 2 dB SPL 19 kHz 28.4 dB SPL to 131.1 dB SPL ± 1 dB SPL 35 kHz 41.8 dB SPL to 133.1 dB SPL ± 3 dB SPL 52 kHz			
Minimal Acoustic Imaging Sensitivity @ 1 m (typical)				
ii500	•			
	3 dB SPL 19 kHz 23 dB SPL 35 kHz 37 dB SPL 52 kHz			
Auto Max/Min dB Gain	• = - = - = - =			

Capture Modes SoundMap™ Image Palettes Blue-Red, Grayscale, Ironbow **Communication Interface and Buttons** USB......USB-C used to transfer data to PC, download files using standard USB Mass Storage device driver. Self-Diagnostic Type Array-health Self-diagnostic warning to identify when too many microphones are Mechanical Size without Handstrap (H x W x L)...... 186 mm x 322 mm x 68 mm Weight......2.15 kg **Power Supply** Battery Type......Rechargeable Li-ion Battery Life.....>6 hours Charging Method External-bay charger Charging Hours 3 hours Charge Operating Temperature 0 °C to 45 °C **Environmental** Temperature Operating ii500-10 °C to 45 °C Storage without battery-20 °C to 70 °C Storage with battery-20 °C to 60 °C Battery charging 0 °C to 45 °C Altitude Storage 12 000 m

Safety

Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself.

Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances.

Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.

Emissions that exceed the levels required by CISPR 11 can occur when the equipment is connected to a test object.

Class A: Equipment meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.