



# IRSphinx ATR Technical Specification



<b>Article Number</b>	917100-01	917200-01	918100-01	918200-01
<b>Spectral Range</b>	2.5-5µm 4000-2000cm <sup>-1</sup>	5.5-11.0µm 1800-900cm <sup>-1</sup>	2.5-5µm 4000-2000cm <sup>-1</sup>	5.5-11.0µm 1800-900cm <sup>-1</sup>
<b>Crystal Material</b>	Zinc Selenide (ZnSe)			
<b>ATR Frame</b>	Stainless Steel			
<b>Spectrometer Housing Material</b>	Anodised Aluminium			
<b>ATR Surface Area</b>	17 x 27 mm			
<b>Number Of Reflections</b>	9			
<b>Illumination Source</b>	Black Body Source Emitter			
<b>Source Lifetime</b>	10,000 hrs			
<b>Dispersing Element</b>	Linear Variable Filter (LVF)			
<b>Detector</b>	128-pixel uncooled pyroelectric array			
<b>Analogue to digital converter</b>	16-bit			
<b>Signal</b>	Detector Voltage >1V @8Hz and 1600cm <sup>-1</sup>			
<b>Measurement time (typical)</b>	~30s (N=200)			
<b>Operating environment</b>	0-50°C non-condensing			
<b>Storage environment</b>	0-60°C non-condensing			
<b>Dimensions (L x W x H)</b>	164 x 75 x 35 mm			
<b>Protection Class</b>	IP64			
<b>Battery</b>	Lithium Polymer (LiPo) 1300mAh		-	
<b>Power Requirement</b>	5V DC, 5W		5V DC, 10W	
<b>Stand-alone operation</b>	-		Yes	
<b>Thermal Stabilisation</b>	-		Yes	
<b>Interface</b>	USB, ethernet, Bluetooth		USB, ethernet, CANopen	
<b>Weight</b>	~710g		~750g	

