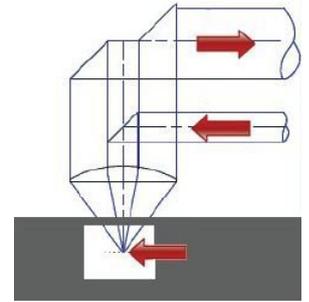


Non contact FTIR

for Material Sciences and Cultural Heritage Diagnostic



Based on the rugged and field proven Agilent Cary 630(R) FTIR, Madatec developed a new accessory for Non Contact Measures, it's based on specular/diffuse reflectance Infrared Spectroscopy and its field of use is in all the situations where the sample can't be touched or sampled.

The Madatec's Non Contact accessory (MadaIR) can be installed in all the already existing Agilent Cary 630(R) FTIRs, maintaining all the original features, accessories and specs.

Due to the small footprint and total weight the complete instrument can be mounted on a tripod and the xyz translator (optional) can easily adjust the FTIR's measure head.

The system can be powered by a battery pack (optional) giving a complete power line free operation.



Contact Information:

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Features:

- Non contact Mid IR Spectroscopy
- Permanently aligned optics
- Sampling point video camera (optional)
- Interchangeable sampling accessories (ATR, Transmission, Specular)
- Simple installation, by User
- Compact
- CE, UL approved
- Global manufacturing support

Other:

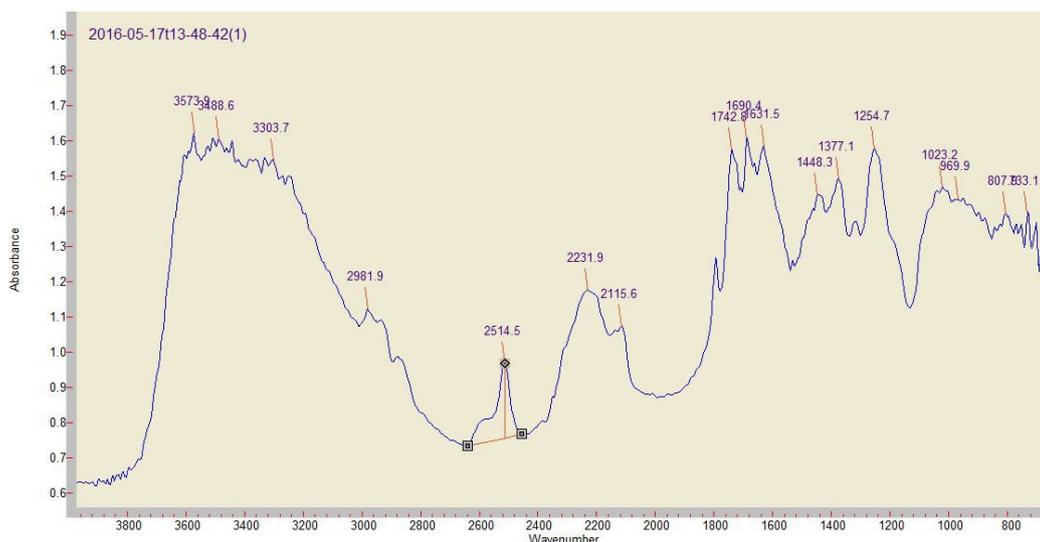
- Build and Search Library software available
Customer can create own IR spectral databases for identification purposes
- Sealed transport case available (opt.)
- Design by the Customer
Spectral range, sampling area and sampling distance can be modified on Customer request (opt.)



Technical specifications

Type	Specification	
Interferometer	25 mm, permanently aligned, Michelson, 45°, mechanical flexure	
Enclosure	Sealed and desiccated	
Spectrometer interface	USB-2	
Size	16 x 31 x 13 cm (6 x 12 x 5 in) (W x D x H with ATR)	
Weight	4.8 kg (10 lb) (with Non Contact DRIFT)	
Sample interface	DialPath, TumbIIR, Diamond ATR, Diffuse Reflectance, Transmission, Non contact DRIFT	
Software	Agilent MicroLab PC software, Automated IQ/OQ, 21 CFR Part 11 compliant, Resolutions Pro for advanced data analysis.	
Power	110 – 240 VAC, 60/50 Hz	
Spectral range	KBr 6300–350 cm ⁻¹ (on request) ZnSe 5100–680 cm ⁻¹	
Spectral resolution	< 2 cm ⁻¹	
Wavenumber accuracy	0.05 cm ⁻¹	Measured with ASTM 1921
Wavenumber reproducibility	0.005 cm ⁻¹	Measured with ASTM 1921
Warranty	Five (5) year interferometer, Five (5) year laser, Three (3) year source Location dependent	
Hardware support period	Seven (7) years from date of last unit manufacture. After this time, parts and supplies will be provided if available	
Software support	Software upgrades to add additional functionality will attract a fee.	

Specifications subject to Change without notice.



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