

Raman installation report

JW/8012/05 (Nov 99)

**Customer**

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Visit Date	25 th February 2019	Generated RSC No.	

System

InVia Reflex: Modulaser Multiline 488/514nm, Ren HP 785nm	Raman Serial No.: H42218
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Accessories

WiRE 3.4 HF6488	Leica DMLM Class 1 enclosure
DLMP	488nm FOP
Windows 7 PC	Fibre launch Path 1 & 2
mvBlueFox camera (podule)	X20LWD Olympus
1200 & 2400 l/mm gratings	Prior encoded XYZ stage, H30 Proscan II controller
3 x kinematic lens sets	ModuLaser 488nm/514nm Ar+ laser
785nm Line Focus (path 1)	Renishaw HPNIR 785nm diode laser

Visit Report: Paul Hopes

Visit: Installation of repaired Modu-Laser

- User had sent the Modulaser direct to the manufacturer for repair and had re-installed the laser onto system prior to arrival
- All connections checked, complete system switched on and allowed to stabilise
- Loaded sample onto stage and focused, checked white light eyepiece-video alignment
- Checked video FOV calibration and collected montage
- Chose 514nm through software and opened laser shutter
- Used rear arm mirror to optimise laser alignment into and through system to sample
- Optimised beam expander to re-focus laser to white light
- Optimised pinhole alignment
- Optimised laser through focus on sample using Raleigh filter and BL mirrors
- Collected silicon reference spectra and checked calibration
- Ran auto align routines for CCD area and Slit
- Collected all test data
- Repeated for 488nm laser...! NO REAR ARM ADJUSTMENT!
- Calibration checked for 488nm – 1200 l/mm grating
- 488nm – 1200l/mm calibration cloned to 514nm laser
- All test data collected
- Changed to 785nm laser through software
- Fully aligned and tested 785nm – 1200 l/mm grating
- Changed to 785nm line focus and collected line focus image
- Changed to 488nm FOP and optimised internal fibre optics alignment through launch / return fibre to CCD area

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- All tests data saved to pc and usb stick

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