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Operating Procedures

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Standard Operating Procedure Renishaw Invia STANDARD Invia OPERATING PROCEDURE: RENISHAW INVIA RAMAN SPECTROMETER Purpose of this Instrument: The Renishaw in Via Raman Spectrometer is an instrument used to Page 12/39

analyze the Raman scattered light from samples to infer the chemistry and structure of the material of interest. Location: 381 Chemistry Research Laboratory

RENISHAW INVIA RAMAN SPECTROMETER Standard Operating Page 13/39

Procedure - Renishaw inVia Micro-Raman Microscope, Susheng Tan, Ph.D. NanoScale Fabrication and Characterization Facility, University of Pittsburgh M104 Benedum Hall, 3700 O' Hara St.. Pittsburgh, PA 15261 Phone: (412) 383-5978, Email: sut6@pitt.edu. Log on the Raman Page 14/39

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inVia Raman
Microscope can
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efficiently provide Raman spectra and photoluminescence measurements for VIa chemical composition and structure analysis. It is supplied with the powerful WiRETMsoftware for intuitive operation and easy data manipulation, as well as the high sensitivity ultra-low noise RenCam CCD Page 16/39

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Standard Operating Procedure Raman Microscope - Renishaw inVia STANDARD **OPERATING** PROCEDURE: RENISHAW INVIA RAMAN SPECTROMETER Purpose of this

Instrument: The Renishaw in Via Raman Spectrometer is an instrument used to analyze the Raman scattered light from samples to infer the chemistry and structure of the material of interest.

Standard Operating Procedure Renishaw Page 18/39

Invia Micro Raman Standard Operating Procedure - Renishaw in Via Micro-Raman Microscope Susheng Tan, Ph.D. NanoScale Fabrication and Characterization Facility, University of Pittsburgh M104 Benedum Hall, 3700 O' Hara St.. Pittsburgh, PA 15261 Phone: (412) 383-5978, Page 19/39

Email: sut6@pitt.edu
Log on the Raman
Microscope via FOM in
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computer.

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Invia Micro Raman
Renishaw inVia Reflex
Micro-Raman Standard
Operating Procedure
This user guide
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describes the proper operation of the Micro-Raman for acquisition of a single point spectral acquisition. System startup 1. Ensure that the Standby/Run switch on the Argon laser is in the Standby position.

Renishaw in Via Reflex Micro-Raman Standard Operating Procedure Page 21/39

Renishaw in Via Reflex Micro-Raman Standard Operating Procedure (2/8/11) This user guide describes the proper operation of the Micro-Raman for acquisition of a single point spectral acquisition. System startup. 1. Make sure the Standby / Run switch on the Modu-Laser RC-1300 Page 22/39

Controller is in the Standby position.

Renishaw Invia

Renishaw in Via Reflex Micro-Raman Standard Operating Procedure The in Via™ spectrometer can be used as standalone unit. and is supplied with an optical table (the dimensions of which are normally 5 ' x 3 ' x

8 " - 1524 mm x 896 mm x 203.2 mm); the "footprint" of the Raman system is

SCA User Manual inVia version - 140605 Standard Operating Procedure: Raman Microscope - Renishaw InVia For general inquiries, contact: Donald J. Goralski

Director, Shared Instrumentation Laboratories (716) 645-5151

Raman Microscope -Renishaw InVia -Science & Engineering

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instrument with unique real-time focus tracking capabilities. The in Via Qontor retains all the functions of a man Renishaw 's worldrenowned in Via Reflex[™] microscope and adds a range of usability features, including powerful LiveTrack™ focus tracking technology.

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Instrument: The Renishaw in Via Raman Spectrometer is an instrument used to VIA analyze the Raman scattered light from samples to infer the chemistry and structure of the material of interest Location: 381 Chemistry

Procedure Renishaw Invia Micro Raman GENERAL INFORMATION (¹² STANDARDmar OPFRATING PROCEDURE. In this system samples are excited by 405, 532, 633 or 785 nm lasers. Laser spot size is ~1 µ m and spectral resolution is about 1 cm-1. Signals can be measured within Page 29/39

100 cm-1 of the laser wavelength.

Renishaw Invia

RENISHAW IN VIA MICRO-RAMAN — Columbia Nano Initiative Standard Operating Procedure Renishaw Invia Micro Raman the facility manager (currently Philip Carubia. Page 30/39

pmc228@cornell.edu, B57 Bard Hall, office and cell: 607-255-6757). All procedures are subject to change. Renishaw InVia Operation Summary Renishaw in Via Reflex Micro-Raman Standard Operating Procedure (2/8/11) This user quide describes the Page 7/26

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INFORMATION | STANDARD OPERATING PROCEDURE In this system samples are excited by 405, 532, 633 or 785 nm lasers. Laser spot size is ~1 µ m and spectral resolution is about 1 cm-1.

Standard Operating Procedure Renishaw Page 33/39

Invia Micro Raman The Renishaw wdf file format has been developed to enable handling data files that contain up to 50 million spectra each. 2D maps can be made in either the StreamLine Plus or StreamLineHR mode With StreamLineHR. Raman images can be acquired as point maps at a data rate of ~50 Page 34/39

milliseconds per spectrum.lure Renishaw Invia

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Raman spectroscopy -Renishaw Renishaw in Via Reflex Page 36/39

Micro-Raman Standard Operating Procedure This user guide describes the proper operation of the Micro-Raman for acquisition of a single point spectral acquisition.

Standard Operating Procedure Renishaw Invia Micro Raman Standard Operating Page 37/39

Procedure Renishaw Invia Micro Raman Reflex Micro-Raman Standard Operating Procedure RENISHAW IN VIA MICRO-RAMAN GENERAL INFORMATION I STANDARD OPERATING PROCEDURE In this system samples are excited by 405, 532, 633 or 785 nm lasers. Laser Page 38/39

spot size is ~1 µ m and spectral resolution is about 1 cm-1. Page 11/21 Shaw with a spectral resolution is about 1 cm-1.

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