

Risk Assessment Summary Report/Print (landscape)



Reference	3495	Description of Space or Activity/Task or Equipment	Use of the Renishaw InVia Spectrometer for Raman and photoluminescence measurements conducted at room temperature it covers three spectrometer Renishaw Invia (514.5, 785) [Bert], Renishaw Invia (325,442,633) [Ernie], Renishaw Invia (532 830) [Gonzo], all situated in Millburn house G78
Assessment Date	06/09/2024	Publish To Portal	No
Assessor Name	Ben Breeze	Risk Assessment Title	Renishaw InVia spectrometer
Assessment Team Members		Review Date	No Review Set
Role / Space / Project Reference		Current Risk Level (1=Very Low, 2=Low, 3=Moderate, 4=High, 5=Very High)	2
Department	Use the search function above or double click here for org chart -> Academic Faculties -> Faculty of Science, Engineering and Medicine -> Research Technology Platforms - RTPs -> Spectroscopy Research Technology Platform - RTP	Final Risk Level (1=Very Low, 2=Low, 3=Moderate, 4=High, 5=Very High)	2
Location Details	Central Campus-Millburn House-Ground Floor-G78 - (01.005.000.051) Spectroscopy RTP Laboratory Millburn House G78	Risk Assessment Number	0

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Risk Assessment Category	Equipment	Additional Information	Users are responsible for having performed a risk assessment for their samples which must be logged at: https://warwick.ac.uk/research/rtp/spectroscopy/Safety/Sample When booking all users will provide a reference to the risk assessment for the sample used. All Users must complete training course before operating the spectrometer. Bookings are restricted to trained users who are recorded in the px-pl-users web group. All users will require retraining if they have not operated the system for 18 months. Document History Version Date Reviewer Comments 1 05/01/18 Ben Breeze Re reviewed when Equipment was brought under RTP Control 2 25/01/19 Ben Breeze Scheduled Review. No changes 3 08/09/21 Ben Breeze Scheduled Review Updated Format updated, minor changes to user groups and description 4 19/07/22 Ben Breeze Updated for additional laser
Date Record Created	06/09/2024		

Hazard Type & Hazard Description	Who may be at Risk? & How May Person(s) Be Harmed	Existing Control Measures	L	S	R	Where current risk is M, H or VH, what additional Control Measures are required?	L	S	R
NIR Class 3B/4 laser or Class 1 laser product Laser strike (burns, loss of sight) 514.5nm, 78nm [Bert], or 325 nm, 442nm, 633nm [Ernie], or 532nm , 830mn [Gonzo]	Laboratory Worker Staff Student Light affecting eye or skin	Admin - Refer to more detailed risk assessment for Class 3B/4 lasers or for Class 1 laser products.	Serious	Unlikely	Low		Serious	Unlikely	Low

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<p>Equipment/Plant Trapping or object being dropped. Contact with rotating mechanical parts (Friction). Contact with mechanical pinch or nip points.</p>	<p>Laboratory Worker Staff Student Trapped fingers Bruises</p>	<p>Admin - Information, instruction, supervision & training. Eng/Admin - Adjustable guarding in place to allow safe use. Admin - Awareness training provided. Admin - Controls are suitably located and identified. Admin - Safe System of Work (SSoW) established and trained out.</p>	<p>Minor</p>	<p>Possible</p>	<p>Low</p>		<p>Minor</p>	<p>Possible</p>	<p>Low</p>
<p>Equipment/Plant broken glassware Contact with sharp blade (cuts).</p>	<p>Laboratory Worker Staff Student Cuts from broken quartz</p>	<p>Admin - Defective equipment taken out of use. Admin - Information, instruction, supervision & training. PPE - Personal Protective Equipment (PPE) is issued and worn (gloves goggles). Take care, dispose of sharps and broken glass in the approved receptacles provided.</p>	<p>Minor</p>	<p>Unlikely</p>	<p>Very Low</p>		<p>Minor</p>	<p>Unlikely</p>	<p>Very Low</p>
<p>Electricity Contact with live electrics.</p>	<p>Laboratory Worker Staff Student Electric Shock and/or burns</p>	<p>Eng - Additional power sockets installed (reducing need to daisy-chain extension cables). Eng - Cables and leads are appropriately insulated. Eng - Fixed guarding is in place preventing access.</p>	<p>Serious</p>	<p>Unlikely</p>	<p>Low</p>		<p>Serious</p>	<p>Unlikely</p>	<p>Low</p>
<p>Assessment Conclusion</p>	<p>Safe operating procedure</p>								