Name of organization University of Strathclyde		Year of information updating 2022
Year established 1796		Year of joining the ITTC unknown
Address Kelvin hydrodynamics laboratory University of Strathclyde 80, acre road, Glasgow, G20 0TL Scotland, United Kingdom		Status in the ITTC Member
Contact details (phone, fax, +44(0)1413302840 kelvin-hydro-lab@strath.ac.uk	e-mail)	Website https://www.strath.ac.uk/engineering/na valarchitectureoceanmarineengineering/ workingwithbusinessorganisations/ourfac ilities/kelvinhydrodynamicslaboratory/
Type of facility Towing tank	Year constructed/upgraded 1960s/2010	
Name of facility Kelvin hydrodynamics towing tank	Location (if different from the above address)	
Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top) $76 \times 4.6 \times 2.1 \ (m)$		
Drawings of facility		
Top-view plan		
76000.00		
Corss-section-view plan		
	2301.00	

Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.)

- Towing carriage, up to 5m/s
- Variable water depth 4 flap-type dry back active absorbing wave maker. Maximum regular wave height above 0.5m, wave period range 0.5-2s.
- Multiple DAQ system, up to 100 channels.
- Resistance and ultrasonic wave probes.
- Pressure transducers, absolute and relative.
- Above and underwater optical motion tracking system
- Single and multi-axis load cell.
- Wired/wireless accelerometer.
- Self propulsion dynamometer.
- PIV, ADV for flow visualization.
- High speed camera, HD above/underwater video cameras.
- 6 DOF motion platform.
- EDFs for wind load simulation.

Applications (Tests performed)

- Resistance, added wave resistance test.
- Seakeeping
- self-propulsion tests
- oil & gas platform wave and current loading.
- Floating wind platform motion response.
- Tidal turbine tests
- Wave energy converter test.
- Water sport tests.
- Underwater robotics, AUV.

Published description (Publications on this facility)