



EQUIPMENT BY RI

Integra 3™ Micromanipulator

Micromanipulation System



RI

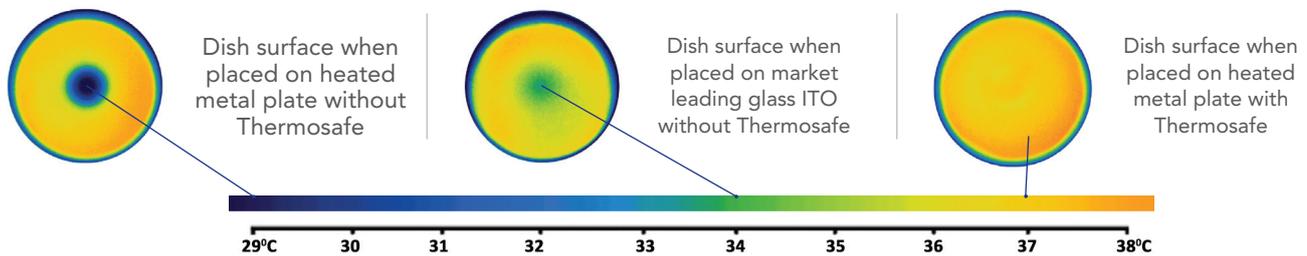
a CooperSurgical Fertility Company

Integra 3™

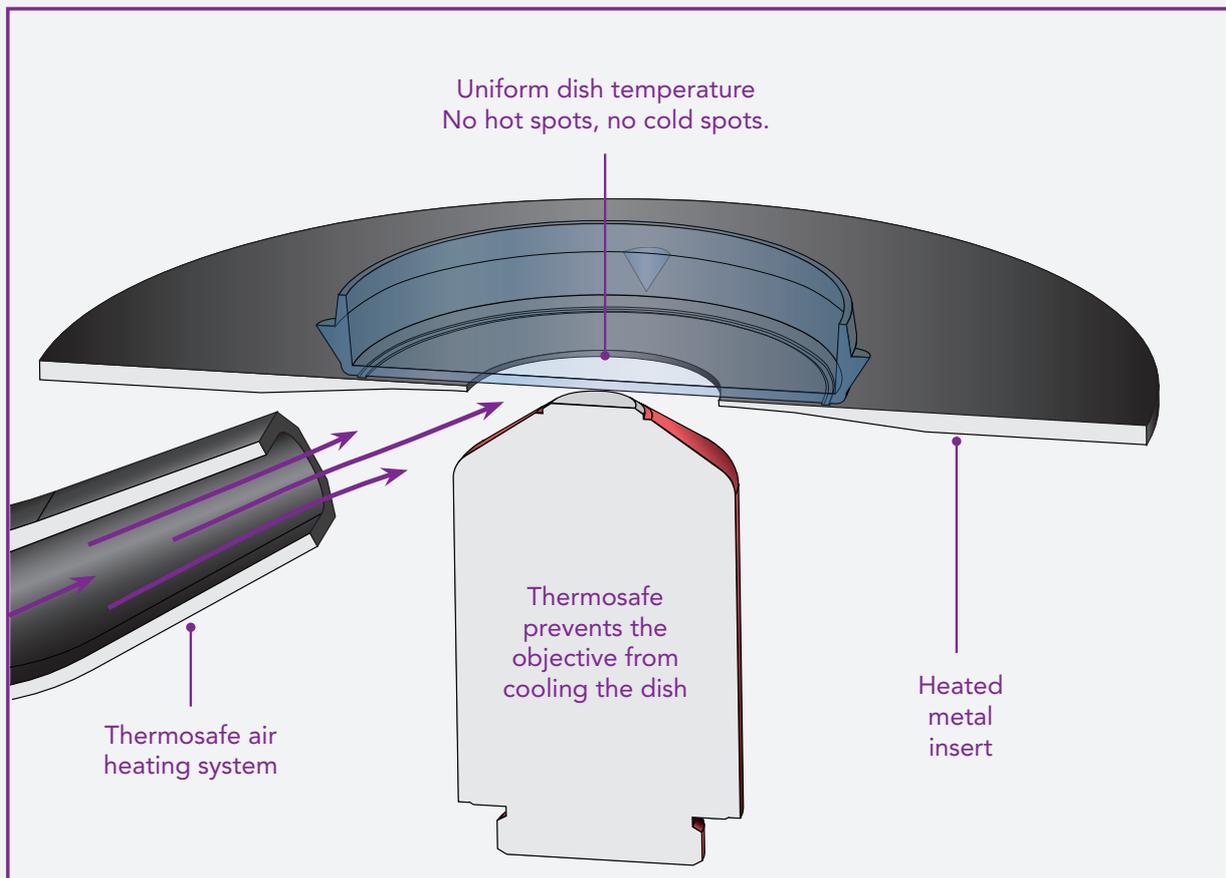
The Integra 3 has been designed to create the best possible conditions for ICSI and sample manipulation. It ensures gametes and embryos remain at optimum temperature using unique Thermosafe™ technology and through advanced mechanical design, it is ultra-responsive, smooth and easy to use. You can change micropipettes in seconds, transforming the efficiency of your work, and use oil or air syringes for sample control.

Featuring Thermosafe

Thermosafe maintains sample temperature across the dish by passing a gentle stream of warmed air under the Petri dish. The thermal images below, taken with a 40x objective in place on an inverted microscope, display the cooling effect of the objective on the centre of the dish with and without Thermosafe.



Cross section view



Key Features

- **No cold spots** – Thermosafe maintains sample temperature with a gentle stream of warm air under the Petri dish
- **Super-fast** – Improved rapid micropipette set-up with one-step angle adjustment
- **Practical** – Motion sensor LED light underneath the stage for improved visibility when changing objectives
- **Safe** – Heating system status indicator light and alarm monitors every second of the process. A log is kept of every alarm triggered
- **Integrated** – Large built-in mechanical XY stage plus temperature controllers with easy access buttons and touch screen
- **Accurate** – New extra-fine mechanisms for smooth and precise movement of the stage and micropipettes

Microscope Compatibility

Nikon	TMD, Diaphot 200/300, TE200/300, TE2000, Ti, Ti2
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Leica	DMIRB, DMI3000B/4000B/6000B, DMIL, DMi8
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Olympus	IMT2, IX50/70, IX51/71/81, IX53/73/83
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Zeiss	Axiovert 40/100/200, Axio Observer, Axio Vert.A1
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Specifications

Heating system	Thermosafe air heating system with heated metal insert: 25mm aperture (standard), 16mm aperture (optional), ITO heated glass insert (optional)
Temperature controller	Accuracy better than $\pm 0.1^{\circ}\text{C}$ when calibrated against known reference Resolution of 0.1°C . Setpoint temperature range: $30\text{--}45^{\circ}\text{C}$
Display	3.5" color LCD touch screen display for temperature control
Connectivity	USB socket for connection to PC running RI Viewer™ software (optional software)
Syringes	Choice of SAS (air), SAS-SE (air) and SOS (oil). Compatible with other ART syringes
Weight	Maximum weight of microscope mounted components (excluding front and rear adaptors): 10.4kg Actual weight is configuration dependent
Dimensions	Footprint (not including microscope): width 56cm, depth 38cm
Power supply	Input: 100-240VAC, 50-60Hz, Max. 1.8A, Class 1. Output: 12VDC, Max. 11A (132W)
Operating range	Temperature: 15°C (59°F) to 40°C (104°F) Humidity: 15% to 85% RH (non condensing)
Micropipette compatibility	Compatible with Humagen, TPC and RI micropipettes (or other industry standard 1.0mm outside diameter micropipettes or equivalent specification)

The Integra 3 is a CE marked device & is in conformity with the essential requirements of the Medical Devices Directive 93/42/EEC as amended by Directive 2007/47/EC.

Learn more about our equipment at origio.com

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