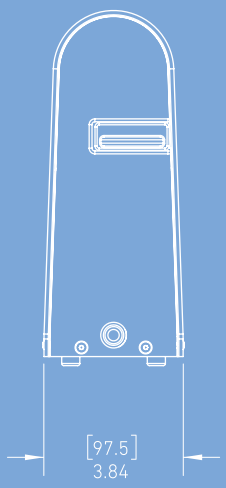
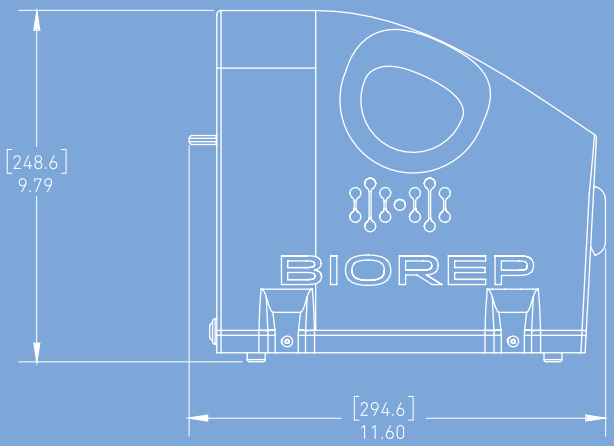
BIOREP® DIABETES

ISLET CELL COUNTER v4

Fully automated Islet Cell Counter (ICC) for the assessment of islet mass, purity, and size distribution by digital image analysis.

COMMITTED TO THE CURE.





BIOREP DIABETES DATASHEET: ICC-4.0

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The Islet Cell Counter is used to generate cell counts of sample quantities of isolated pancreatic islets. The ICC system enables the user to reliably and repeatedly quantify the islet equivalent (IEQ) in less than a minute. Islet quantification is based on the Clinical Islet Transplantation Consortium (CIT) protocol.

The software yields the number of particles (IPN), the IEQ, and also sorts cells by size groups according to cell area.

In addition, the user obtains: the area covered, the B-factor, a size group IEQ contribution pie chart, and distribution statistics such as a size group histogram. Also, a report can be generated with the push of a button. The software allows image archiving for documentation, training, and verification purposes.

VERSION 4 FEATURES + UPDATES:

- Improved accuracy & reproducibility
- Enhanced selection masking
- New segmentation edits tools
- Easy manual verification with adjustable digital grid overlay
- Batch reporting & raw data output
- Custom profile creation capability
- Additional machine vision metrics and stats
- All-new intuitive user interface

BENEFITS + FEATURES:

- With a focus on ease of use, the user interface guides the user in a step-by-step fashion from start to finish
- New Dark-Ground illumination improves small particle detection, segmentation capabilities, and allows counting of pure unstained preparations
- Enhanced metrics like Area cover, Purity and Quality Index (QI) provide more valuable information about the sample
- Faster camera and software allows for automatic multi-count averaging. This means that results are based on multiple consecutive counts for added confidence
- Automatic report generation saves time and minimizes errors; automatically generates graphical representations of sample particle size distributions and contributions for better analysis
- All this with an even smaller footprint!

Part Number	ICC4-115/230
Video Connection Type	GigE (Ethernet)
Illumination	Dark-Ground (LED)
Field of view (FOV)	12 mm
Sensor resolution	5.5µm +/-5%; CMOS color 12bit
Recommended Sample Volume	100 µL
Cell size filter	> 50 µm in diameter
Average count speed	30 seconds (triple count)
Detection Modes	Automatic Stained / Automatic Unstained*
Power supply	AC 100-240VAC, 50-60 Hz
Dimensions	W x D x H: 100 mm x 320 mm x 250 mm
Vision System Weight	2.75 kg
Included items	Islet counter Vision system, Islet Counter Laptop Computer, One pack (10x) Biorep Islet Counter Dishes (ICC-D2)
*Note	Unstained count accuracy is directly proportional to sample purity. In unstained mode, the ICC v4 will provide a count of ALL particles in the dish, including islets, acinar and other particles. This is a limitation of the unstained mode and the user should be aware of this during ICC use. We recommend the use of this mode when viability of the sample needs to be preserved, and purity is high, such as when doing a Perifusion experiment.