Advanced
QCount Automated Colony Counter

The premier colony counter designed for ease of use and efficiency in microbiology laboratories

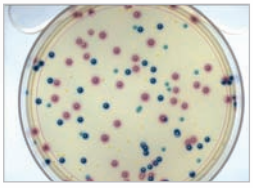
Spiral Biotech
An Advanced Instruments Company

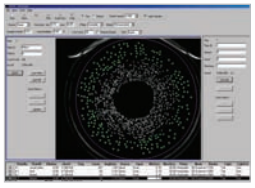
www.spiralbiotech.com

QCount® uses patented ColorCount™ color recognition technology to break through the limitations of clustered colonies, giving you sharp, error-free plate counts. ColorCount color recognition software comes fully validated and works right out of the box, eliminating the need for complex adjustments.

The QCount Colony Counting System illuminates the way for faster, easier, and more accurate bacterial enumeration.

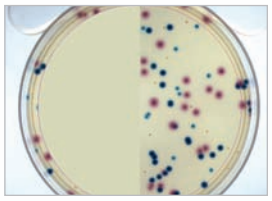
You can count on Q.

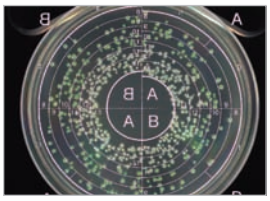




Color or Black and White

Whether using ColorCount for discriminating colonies by color or the Black and White QCount for sharp, high-resolution counting, we have the QCount to fit your need.





Full Editing Capabilities

QCount provides microbiologists the ability to add and delete colonies or eliminate entire regions of the plate, including spreaders. All edits are tracked with user ID, date/time stamp, and comments. The user can also overlay the spiral counting grid for further validation.

Fast, Easy, and Accurate Plate Counting With the QCount Colony Counting System

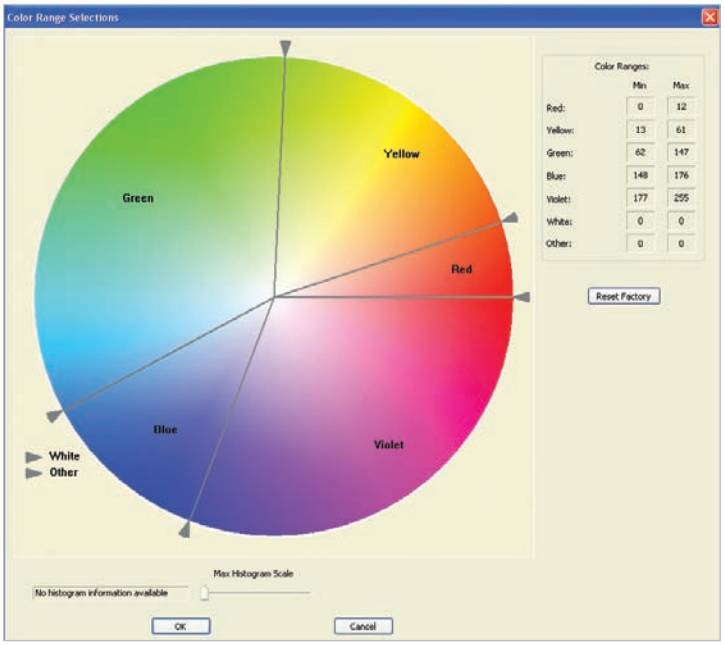
QCOUNT FEATURES AND BENEFITS

- **Auto thresholding** — Software automatically determines the threshold of the background (agar) color.
- **Auto shutter** — Color QCount automatically chooses the correct camera shutter speed, eliminating the guesswork of choosing the correct camera settings.
- **Auto color detection** — ColorCount technology instantly recognizes subtle color variations and comes programmed with seven preset colors for fast startup and exceptional accuracy.
- **Flexible data management** — Data is stored to a high-performance computer or CD-ROM. Each image is saved with a record of the operator, plate ID, count, edit flags, date/time, and all other settings.
- **Advanced image analysis** — The software analyzes colony clusters by contour, shape, and contrast, examining subtle shifts in tone within a colony to determine peaks.
- **Size discrimination** — Colonies can be discriminated by 0.01 mm increments and be graphically displayed in a histogram by selecting the Size Distribution option.
- **High throughput** — With QCount's automatic settings, a user can easily process up to 500 plates in 1 hour. Total analysis time is less than 1 second — including overlapping colony clusters.
- **Validation** — QCount comes factory-validated and can be validated in-laboratory with the included test plates. All data is archived in a database linked to the appropriate image. The QCount is password-protected, FDA 21 CFR Pts 11 & 58 compliant, and fully GLP compliant.

APPLICATIONS

- **Food** — Ideal for precise characterization of microorganisms such as *Listeria*, *Salmonella*, and *E. coli*.
- **Pharma/biotech** — Perfect for high-throughput research such as MLA, viral plaques, and cell counting.
- **Environmental** — Water and soil testing, environmental monitoring samples including coliforms, *E. coli*, Enterococci.
- **Research** — QCount is perfect for any laboratory in any discipline of microbiology where accuracy and throughput are needed.

Defining Custom Colors With ColorCount Software



ColorCount software allows you to define the colors you want to count. QCount comes programmed with seven preset colors including "white" and a user-definable color. This allows for fast startup and use right out of the box. Users also have the flexibility to easily define their own color settings with no limitations — defining individual colors or even a range of shades as one color.

Autoplate

ABOUT ADVANCED INSTRUMENTS

Advanced Instruments, Inc. and our subsidiaries, Spiral Biotech, Delta Instruments, D & F Control Systems, and Mart Microbiology, design and manufacture instrumentation for clinical, pharmaceutical, biotechnology, microbiology, and food laboratories around the world. Our products help healthcare companies improve the quality of care and industrial companies enhance quality and productivity.

The Autoplate® Spiral Plating System is the ideal companion to the QCount, providing a fully integrated plating and enumeration system.

QCount Automated Colony Counter Specifications

Camera type (Color QCount)	Interline transfer progressive scan charged coupled device (CCD), 12 frames per second, digital output per IEEE 1394A, electronically variable shutter speed
Pixel resolution	1388 x 1088 px
Camera type (QCount)	Interline transfer progressive scan 1/2" charged coupled device (CCD), 30 frames per second, digital output per IEEE 1394A, electronically variable shutter speed
Pixel resolution	782 x 582 px
Electrical voltage	110 to 240 V AC (50/60 Hz)
Current	0.8 A maximum
Operating conditions	18° to 35°C (64° to 95°F); not to exceed 80% relative humidity (noncondensing)
Dimensions	18" H x 13.5" W x 14.75" D (46.5 cm x 34.5 cm x 37.5 cm)
Net weight	29 lb (13 kg)
Shipping weight	42 lb (19 kg)

CE

The management system governing the manufacturing of this product is ISO 9000 and ISO 13485 registered.

Spiral Biotech products are available from a worldwide distributor network. For more information on our products and services or to find your nearest distributor, visit us at www.spiralbiotech.com or e-mail us at infosbi@spiralbiotech.com.

Hot-Line® Technical Service

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