Automatic Colony Counter

SPECIFICATIONS

Main unit: Fully sealed metal chamber

Dimensions: W335xH475 xD340mm

Weight : 25kg

Power Source: 100-240 V,50-60Hz

System configuration: Main Unit only. (PC and Monitor are sold separately, Windows 11 compatible)

Software: Software for colony count

Operating environment: 10-35°C, 20-80 % humidity

Color CMOS camera: 8.5MP, Single pixel size 1.67x1.67μm

Fixed focus lens: Resolution 150lp/mm, Focal Length 8mm, F1.4~F16, C-Mount

Resolution: smallest detectable colony is 0.05 mm

Lighting: upper reflective lighting, Lower lighting (dark field or white background)

Automatic colony counting: Pour and spread plates; filters & 3M Petrifilm

Counting on Petri dishes: Ø 55 mm - Ø 90 mm

Measurement time: 1 to 3 seconds per petri dish. Depends on PC performance and measurement conditions.

Counting: Automatic with manual control

Separate touching colonies: Automatic or manual mode

Colony selection: Counting according to color, size, shape

"Add"/"Delete": Counting result be corrected manually by using the mouse.

Automatic rejection of impurities: According to the difference between colonies and impurities in shape, size and color.

Measurement: Automatic measuring area, perimeter, diameter, roundness etc.; manual measuring Line, Angle, Rectangle, Circular, Arc, Curve

Image Processing： Image adaptive enhancement, RGB Component Adjust, Sharpen, Smooth, Filter, Edge Filters, Morphological Filters, Segmentation

Data Handling: Database for storage of images and results with data query, reporting; data transfer capabilities

User security: Password protection of configuration