

## 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 5mm, F1.4~F1.6. C-Mount

**Resolution:** smallest detectable colony is 0.05 mm

**Lighting:** upper reflective lighting. Lower lighting (darkfield 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