

ProtoCOL 3 – for automated colony counting and zone measurements



ProtoCOL 3 is the next generation instrument for colony counting, zone measurements (inhibition and antibiotic susceptibility testing (AST), membranes, Petri-film and a range of other applications including: spiral plates, OPKA (opsonophagocytic killing assay), SBA (serum bactericidal assay), Multi-sector, Multi-well, SRD (single radial immunodiffusion) and Ames.

The new design now enables plates of up to 150mm diameter to be automatically read at the press of a button. Designed for use across a wide range of applications, ProtoCOL 3 will count colonies as small as 43 microns (0.043mm) or measure zones accurately to 0.1mm.

ProtoCOL 3 has a unique LED lighting system configured for exceptional illumination of all sample types. High definition, colour images taken with a 1.4 mega pixel scientific grade CCD camera ensure that even the smallest colony can be seen and counted, while zone measurements are fast, accurate and reproducible.

ProtoCOL 3 is available with a mounted touch screen processor which enables ease of control while the easy-to-use software produces highly accurate results. Alternatively, ProtoCOL 3 can now be used with a new or existing stand-alone desktop or laptop computer via USB connection – no additional PCI cards are required.

ProtoCOL 3 comes inclusive with both colony counting and zone measuring ability. To extend its range of applications, inexpensive additional modules can be added to the software for Spiral, OPKA, SBA, Multi-sector, Multi-well, SRD and Ames. Results can be automatically transferred to Excel or a LIMS system. The system can also be used with 1D and 2D barcodes. All data generated is GLP/GMP compliant with a full audit trail and can be used to produce professional reports. Each system comes complete with 2 validation plates.

Specification

	ProtoCOL 3	ProtoCOL 3 Plus
Construction	Ergonomic housing constructed in high density foam Integral CCD camera and lens	Ergonomic housing constructed in high density foam Integral CCD camera and lens
Light shield	2 sliding doors to prevent excessive ambient light	2 sliding doors to prevent excessive ambient light
Camera	1.4m pixel scientific grade CCD camera USB integral camera with f1.2 lens	1.4m pixel scientific grade CCD camera USB integral camera with f1.2 lens
Resolution	For standard 150mm Petri dish, smallest detectable colony is 43 microns	For standard 150mm Petri dish, smallest detectable colony is 43 microns
Imaging	3 channel capture for colour images	3 channel capture for colour images
Lighting	Unique 3 channel (red, green, blue) LED lighting (patent pending) Multi-array LED lighting (computer controlled) Lower lighting with upper reflective lighting for all applications	Unique 3 channel (red, green, blue) LED lighting (patent pending) Multi-array LED lighting (computer controlled) Lower lighting with upper reflective lighting for all applications
External connections		All-in-one PC
Measurement modes	Colony counting and zone measurement	Colony counting and zone measurement
Count modes	Separation of touching colonies, exclusion areas, colour mode, shape mode, size mode	Separation of touching colonies, exclusion areas, colour mode, shape mode, size mode
Software	Win7 compatible	Win7 compatible
Database	SQL database stores all data and images	SQL database stores all data and images

Applications

The system can be configured for a wide range of plate types. These include:

Pour plates; Spiral plates; Multi-well; SBA (serum bactericidal assay); OPKA (opsonophagocytic killing assay); Ames; Inhibition zones; AST (antibiotic susceptibility testing); SRD (single radial immunodiffusion)

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