

# ***Antibacterial susceptibility zone sizing system***

**The world's most efficient antibiotic susceptibility plate reader automatically detects antibiotic disks and the size of the zone around each disk, immediately reporting resistance classification. Its ergonomic design reduces operator stress whilst the easy access plate holder facilitates rapid plate insertion and removal.**

One button technology means plate reading couldn't be simpler. Plates with multiple antibiotic disks are read in seconds, easily achieving throughputs of hundreds of plates an hour. Its unique zone detection algorithm handles a wide range of agar types, far exceeding the accuracy and repeatability of any other zone reader currently available. Designed to provide full GLP support, ProtoZONE automatically stores measurements and can transfer results to spreadsheets or LIM systems.

ProtoZONE is designed to work only with plates using antibiotic disks. If you have plates with zones but no antibiotic disks present then you need ProtoCOL.



# ProtoZONE

## MICs & Antibiotic Susceptibility Testing

Automatic sizing of zones surrounding disks is simplified with ProtoZONE. Measurement of 6 zones on a plate takes as little as 2 seconds.

## No Transcription Errors

As each zone is sized, results are instantly transferred to a results table in ProtoZONE's secure database. This can hold a reference to the sample image, eliminating transcription errors.

## Handling Samples

Most microbiology laboratories create batches of samples. To reduce the risk of data entry errors for such, sample lists can be pre-defined. The user is prompted to load each sample in turn until all have been read.

## Audit Trail

Users sometimes wish to re-read previously analysed samples using automatic or manual methods. Wherever a system setting is adjusted and a sample re-read, ProtoZONE automatically creates a copy of the original result in addition to the new result. This ensures a comprehensive audit trail for all results. Users can configure ProtoZONE to request a 'reason for change' free text comment which is recorded in a comments field. Data is maintained in a secure format, as directed by Good Laboratory Practice protocols.

## Printed Reports

ProtoZONE can connect to any Windows supported printer. All results can be recorded and produced as a professional report.

## Image Archiving

Users can choose to save true colour sample images for archive purposes. Single sample images can be printed out directly from the ProtoZONE software, alongside the appropriate sample result.

## Configuration

Typical Measurement Time	0.9 sec
Resolution	Zone sizing resolution >0.05mm
Illumination	Upper incident light, bottom transmitted light & dark field using LED arrays
Measurement Modes	Antibacterial susceptibility
Detection	Fully automatic
Dilution Series	User defined dilution series
Results	Display, storage and printing of up to 20 data items for each sample
Image Storage/Retrieval	Storage of >20,000 images on local hard disk
External Connections	Mouse, keyboard, bar code reader, monitor, external camera, ethernet
Storage	Hard disk and floppy disk
Camera	Zero distortion colour CCD video camera with electronically variable shutter speed
Camera Lens	6mm high resolution f 1.2 closed
Power Input	110/240V 50/60Hz
Approx Weight	15kg
Approx Dimensions	452mm x 380mm x 452mm

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