

# Digital Radial Immunodiffusion (RID) Plate Reader

The Binding Site Digital RID Plate Reader is a small, user friendly instrument for the accurate measurement of radial immunodiffusion rings.

## Advanced technology

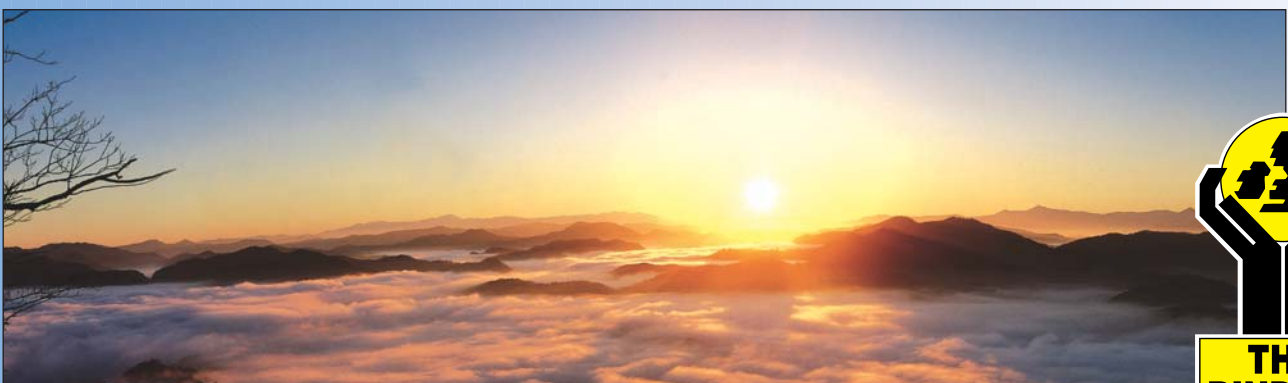
- Clear visual images of RID rings are transmitted directly to your computer screen

## Software is simple to use

- Sample values are calculated automatically from the calibration curve
- All data and images can be stored for future use

## Accurate and efficient

- Enlarged image of RID precipitin ring enables quick and accurate measurement



# The Binding Site

## Digital RID Plate Reader

Radial Immunodiffusion (RID) is a well-established technique based on the complexing of antigen and antibody to produce a visible precipitin ring in a gel. The concentration of specific proteins can be determined quickly and accurately by measuring the ring diameters of precipitin rings using The Binding Site Digital RID Plate Reader.

This economical instrument is small, simple to use and requires very little maintenance. Calibration is easy to perform and the use of video camera technology avoids errors associated with other more traditional methods of reading.



### Technical Specification

Camera specifications:	CCR video system 628 x 582 pixels
Light source:	LED array
Operating temperature:	18 - 30°C
Dimensions:	Width 220mm, Height 140mm, Depth 160mm
Instrument weight:	1.14kg
Power requirements:	110/120v or 220/240v a.c.50/60Hz, 0.3A
Computer requirements:	USB port, Windows®XP

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## **RIDRead** Digital RID Plate Reader Software

Radial immunodiffusion methods vary and results can be calculated in several different ways. The flexibility of the **RIDRead** package allows the user to select their preferred option for result calculation from a calibration curve:

- A linear curve is used if accuracy is of primary importance
- Choose a binomial curve if results are required quickly (uses a Fahey method)
- A point-to-point curve is used for functional complement assays

Alternatively, in all Binding Site quantitative RID kits, a table of ring diameters and the corresponding protein concentrations is provided. The **RIDRead** software enables a calibration curve to be generated using values from this RID Reference Table. Sample results can be calculated without assaying all three calibrator dilutions, thereby maximising reagent use.

### Advanced Technology

The Digital RID Plate Reader has a built-in video camera that transmits clear images of RID rings directly to your computer screen. The instrument's variable contrast together with the large on-screen image enhance visualisation of precipitin rings.

The computer mouse is used to mark two opposite points on the edge of the RID ring on the screen. Pressing the enter key automatically records the ring diameter.

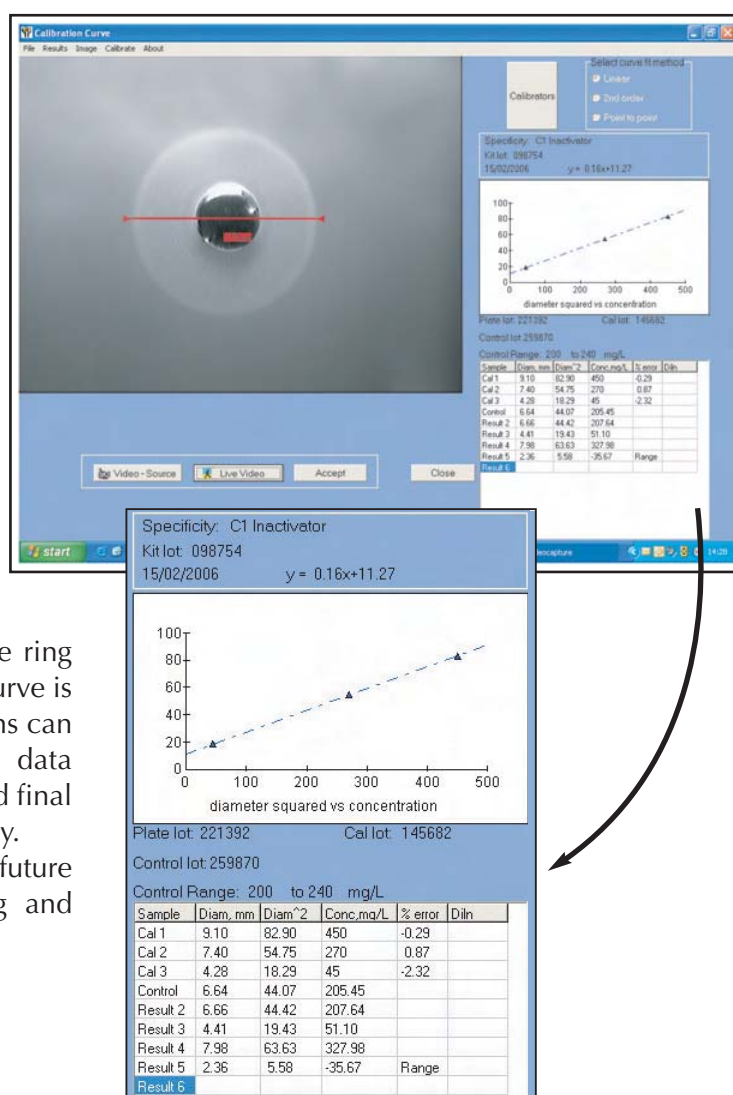
### Software is Simple to Use

The calibrator values are entered prior to the ring diameters being measured. The calibration curve is then generated automatically. Sample dilutions can be entered before ring measurement so data manipulation by the user is not necessary, and final sample concentrations are calculated instantly.

Data, curves and images can be stored for future use and provide a useful tool for training and quality control.

### Accurate and Efficient

Enlarged images allow the user to obtain accurate ring measurements and the rapid measuring method enables faster reading of large numbers of RID plates. The automatic data generated greatly reduces the amount of time needed to obtain sample concentrations and eliminates the errors associated with manual calculations. The use of the RID Reference Table reduces costs by maximising the number of wells used for samples on each RID plate.



## Ordering information

DESCRIPTION	PACK	CODE
Digital RID Plate Reader*	1	AD400
Replacement bulb**	1	AD001.1
Replacement bulb**	1	AD400.1

\*Universal fitting suitable for all voltage requirements is included.

\*\*Refer to user manual for bulb specifications when ordering replacements.

## Radial Immunodiffusion Kits

The Binding Site offers a wide range of radial immunodiffusion kits which can be used in conjunction with The Binding Site Digital RID Plate Reader. These include quantitative assays for immunoglobulins, complement proteins, coagulation and other human serum proteins plus assays for assessment of functional complement proteins.



Contact us or visit our web site for more information and details of your local distributor.

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