

# vision systems – manual 2D

## VμMaster

### Standard features:

- Large 400mm x 300mm X,Y measuring range
- Programmable LED Lighting
- Patented measuring technology
- Video edge detection takes hundreds of data points instantly
- Fully integrated system for shop floor or inspection use
- Generates a dimensioned drawing of the measured part
- SPC included

The VμMaster is a manual 2D vision system with a massive difference.

Due to the newly patented ColourMap scale system, the VμMaster does not have a conventional stage or encoders, just a floating measuring camera that is able to move anywhere in the measuring range. The position of the measuring camera is cleverly determined by a second camera moving in unison and reading the patented X,Y scale.

This enables the VμMaster to offer high accuracy measurement (error =  $<7.5\mu\text{m}$ ) anywhere in the 400 x 300mm X, Y measuring range without the need for conventional high precision (high cost) mechanics.

The measuring system operates on a Windows XP platform and is based on Baty's widely used 'Fusion' software. Standard geometric features are calculated from data collected using Video Edge Detection. Other features include a new comprehensive suite of video tools with 'live' edge detection adjustment and digital zooming / panning. The programmable ring light consists of high density white LEDs which can be controlled individually. Conventional measurement of 2D features can be combined with free-form profile scanning which can be overlaid onto CAD files. The results are displayed graphically and a dimensioned component drawing can be produced instantly.

