

# $\mu$ Ray<sup>®</sup> Vision—Intuitive and easy for all

Compatible with

$\mu$ B1000

$\mu$ B1300

$\mu$ B1600

$\mu$ B2800

$\mu$ B3500

$\mu$ Ray8400

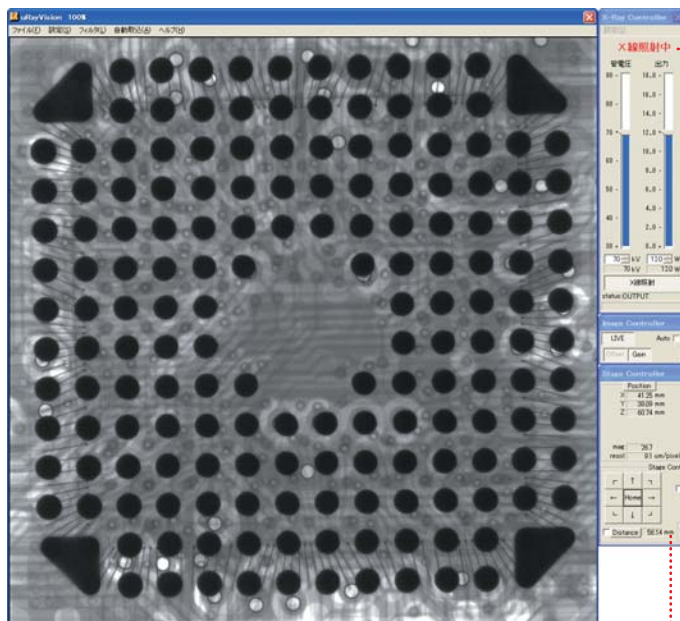
$\mu$ Ray8700

$\mu$ nRay7600/7600F

$\mu$ nRay7900/7900F

( $\mu$ Ray8000  $\mu$ Ray8900  $\mu$ B4000 ..... " $\mu$ RayVision2" is standard equipment.  $\Rightarrow$ Please refer to page.19.)

$\mu$ Ray<sup>®</sup> Vision, the system's dedicated software, not only makes controlling the stage and the X-ray beam easy, but also provides a variety of image processing and measurement functions.



## X-ray controller

Allows you to turn the X-ray source on and off and to control the tube voltage and current.

## Image controller

Allows you to configure the image capture settings, including the moving-image filter and display range settings.

## Stage controller

Allows you to operate the stage using a mouse.

## Main Functions

### The IMAGE ANALYSIS function

#### Display Range

Allows you to set an arbitrary gray level based on an image's histogram and then enhance the contrast manually.

#### The Area Calculation

The measurement results are quantified and then used to measure the surface areas, number of holes, hole areas, and area ratio.

#### Dimensional measurement

By drawing the measurement lines on the image, the dimensions within the image can be measured.

### The STITCHING function

This function allows you to capture multiple X-ray images for specimens that would be too large to capture in a single image.

### The TEACHING function

This function improves inspection efficiency by automatically moving the stage to pre-registered points. You can display images of exactly the same points on multiple specimens with the same shape.

# Extensive range of optional extras delivering additional features and functionality

(This page presents a selection of optional extras.)

**CT**

## Stereoscopic transparent imaging CT unit

Compatible with

$\mu$ B1600

$\mu$ B2800

$\mu$ B3500

$\mu$ Ray8000


$\mu$ Ray8400

$\mu$ Ray8700

$\mu$ nRay7600/7600F

Whereas the fluoroscope only handles captured images, the CT unit can be used to obtain 3D images. you Specify any surface on a 3D image to obtain a tomographic image of the surface.

### CTN Minimum configuration standard specifications

For example, this capacitor whose diameter is approximately 0.24"(6 mm) and height is approximately  0.39"(10 mm) can be observed as shown below.

#### Arbitrary fault image display

Across-section surface image at arbitrary position can be displayed.

#### MPR (multi planar reconstructions) display

A cross-section surface image of 3D volume data is displayed from 3D direction.



### CTM 3D display of voxel data

#### Arbitrary cross-section surface display of 3D image

An arbitrary cross-section surface of 3D image whose volume is rendered can be displayed.

#### Volume rendering

n image is generated and displayed from voxel data that has all information of XYZ. An image seen from all directions can be displayed by changing the viewpoint.



### CTX Most significant configuration that processes large-capacity voxel data at high speed

#### Arbitrary object separation

A part of image can be arbitrarily extracted to color and separate it.

#### CAD data output

The surface shape of 3D image can be approximated polygonally to output it as a point group file (STL format).



## Analysis function

#### Dimension measurement

The dimension between points specified on 2D image can be measured. The measurement result is also reflected to a 3D image.

#### Shortest distance measurement

Shortest and longest distances on 2D image can be measured. The distance is automatically measured within the range that is specified by dragging a mouse and the distances of shortest part and longest part are displayed. The measurement result is also reflected to a 3D image.

#### Volume measurement

Volume and surface area of read 3D image can be measured.

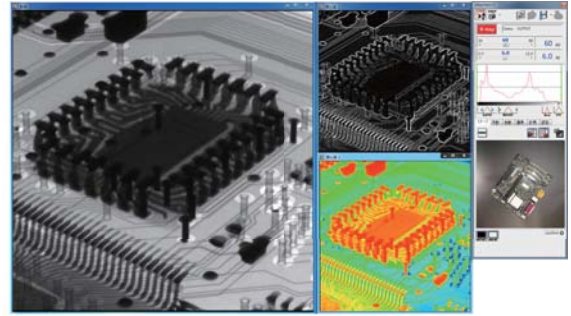
#### Filter

The artifact can be reduced by carrying out filter processing for a 2D slice image.

## V2

## μRayVision2 operating software

The image capture software μRayVision2 features MDI (Multiple Document Interface). Display multiple images in a window for comparison and inspection purposes as well as multiple measurement operations.



### V2 correspondence table

型 式	V2
μB1000	*
μB1300	*
μB1600	*
μB2800	*
μB3500	×
μB4000	○
μRay8000	○
μRay8400	△
μRay8700	×
μRay8900	○
μnRay7600/7600F	△
μnRay7900/7900F	△

○ : Standard △ : Option × : n / a  
 \* : Please ask our sales staff for detail.

## AG

## Automated transport

Compatible with  Please contact our sales staff for detail.

The side opening can be used to feed samples into the automatic transport system for inspection without having to turn off the X-ray source and open the door every time. This also helps to extend the service life of the X-ray tube.



▲ Large option

◀ Small option