GEN³ SYSTEMS

MUST CVS
Camera & Video System

ENGINEERING RELIABILITY IN ELECTRONICS

Introducing the MUST CVS (Camera & Video System) featuring a USB CMOS Colour Camera with 3.3x megapixel lens and a custom mounting assembly that retrofits to ANY MUST system.

Description

The MUST CVS is a visual aid used for correctly aligning and recording a component for a solderability test. This has been developed specifically to aid the operator for very small components (0402, 0201, etc.) in monitoring of the wetting of the sample during the test, and recording for further analysis and examination.

The package consists of a USB 1/3" CMOS Colour Camera, a 3.3x megapixel macro zoom lens, a mounting arm, a USB connection lead and software including drivers. The software runs independently of the MUST software on the same system computer.

Functionality

The MUST CVS employs simple individual sprung loaded manual XYZØ adjustments that help to ensure camera alignment and stability when making positional changes. The rotational range (Ø) is up to 260° about the clip hanger.

The MUST CVS greatly enhances solderability testing of: 0201, 0402, μBGA, QFN and other miniature components.

Fitting

The MUST CVS can be retrofitted onto any MUST 2 or MUST 3 system. Installation is simple as the bracket mounts to existing panel mounting points on the head.

Main Features

- Up to 744 x 480 pixel resolution
- Up to 150 frames per second
- Can be switched between mono and colour image
- Powered via USB 2.0
- Close-up viewing, dedicated to micro component testing (e.g. 0201)
- Simple manual XYZØ adjustments to move camera position to desired location
- Easy set-up and mounting to any MUST system

Software Features

- Capture live images into various formats including bmp, jpeg, raw & tiff
- Capture timed sequences of images at set intervals
- AVI recording for defined periods
- Zoom from 10% to 200% and image rotation
- Select specific region of interest
- Add overlays and timestamps

System Requirements

- Computer running Windows XP/SP2, or Windows 7 (32 or 64 bit)
- USB 2.0 port
- CD or DVD drive
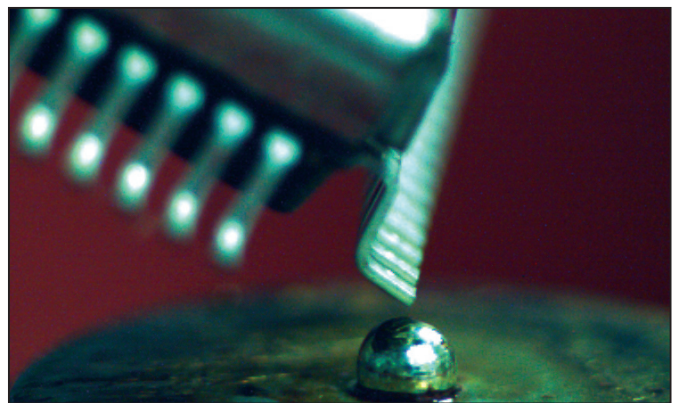- Internet connection for software installation
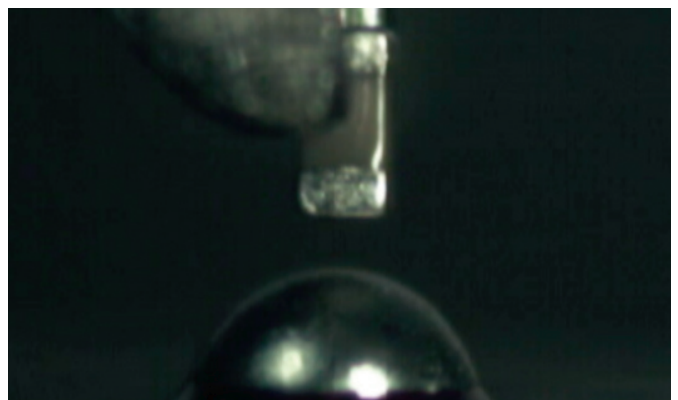

Figure 1 - 5mg pellet with QFP

Figure 2 - 2.5mg pellet with 0201 resistor

Figure 3 - 2.5mg pellet with 0201 resistor