

Image Recognizer for Cross-cut

After finishing cross-cut test on the coating film, the operator should judge accurately the flaked area percentage and then make a classification, the traditional method is with his own naked eye. Since it is difficult to accurately quantify the flaking area with the naked eye, there are relatively large subjective differences in the results or classifications, and it is easy to dispute. In order to solve this problem and improve the repeatability and reproducibility of the cross-cut test results, Biuged has developed an instrument that can automatically identify the flaking area. This instrument uses computer digital image processing (visual automatic analysis) technology to take photos of the crossed-cut area, and then analyze and calculate the digital images, which can quickly and easily obtain accurate results.

BGD 350 Image Recognizer for Cross-cut is composed of a hand-held cylindrical structure, which can be conveniently placed on the cross-cut area pattern to be evaluated. It is also equipped with a camera and an LED lamp with adjustable illumination intensity.

Features:

- ◆ Different imaging modes are automatically selected by special hardware to optimize the contrast ratio of the surface to be evaluated.
- ◆ Automatic estimation of cutting quantity, cutting spacing and width of cutting parallels, and manual adjustment to obtain accurate measurement.
- ◆ Automatically calculate the proportion of flaking area and display the corresponding classifications.

Main Technical Parameters:

- ★ Maximum Assessable Range: 35mm × 35mm
- ★ Camera Observation Accuracy: 80px/mm
- ★ Light Source: Combined LED white light source
- ★ Language: English/Chinese
- ★ Operating Temperature and Humidity Requirements:
5°C ~ 40°C; relative humidity ≤ 80% (at 35°C),
no condensation
- ★ Port: USB 3.0, 500mA
- ★ Minimum System Requirement: Windows 10 / Windows
11 64-bit operating system, 4GB RAM
- ★ Overall Size (Height × Diameter): 166mm × 90mm
- ★ Host Weight: About 700g
- ★ **Ordering Information:**
BGD 350---Image Recognizer for Cross-cut



Scan for video

