

# Texture Image Acquisition

## PaperTextureID.org

- Images are acquired using an Infinity 2-3 imager manufactured by the Lumenera Corporation.
- The camera incorporates an Interline Sony ICX262 3.3 megapixel color progressive scan CCD sensor, producing images incorporating 2080 x 1536, 3.45m square pixels.
- The imager is attached to an Edmund Optics VZM 200i lens.
- Samples are illuminated using a 3 inch LED line light.
- The light is placed at a  $25^{\circ}$  raking angle to the surface of the paper. The image depicts an area measuring 10.0 mm vertically and 13.5 mm horizontally.
- Image files are saved and distributed as .tifs. Files are RGB color at 16 bits per channel, 2080 x 1536 pixels, apx. 18.2 MB. Image are not altered from the camera (no filters, processing, sharpening etc.)..
- The equipment set-up is depicted on the following page

The following measurements apply when the scope is focused on an area measuring 1 cm in the vertical direction.

The precise measurements may vary depending on the model of the line light and the lens. The “key” in terms of duplicating the geometry is the 25 degree angle and the “focus” point of the light being at the front edge of the 1 cm image area.

