

A block diagram of a system for detecting and measuring illumination. The system includes an **ILLUMINATION DETECTION DEVICE 30** which is connected to an **IMAGE PROCESSOR 38**. The **IMAGE PROCESSOR 38** has an **OUTPUT** arrow pointing upwards and is also connected to a **MONITOR (OPTIONAL) 36**. The **ILLUMINATION DETECTION DEVICE 30** is positioned above a surface 20. It emits a beam of light, indicated by dashed lines 32, which passes through a series of lenses or filters 24 and 26, and is focused onto a grid of points 22 on the surface. The surface 20 is part of a larger structure 29. A rectangular component 12 is positioned below the surface, containing a grid of points 14. A dashed line 34 indicates a path from the surface 20 to the component 12. A horizontal line 16 is also shown. A vertical line 18 is at the bottom. A vertical line 27 is on the right side of the component 12.