Abstract

Viewing Scope With Image Intensification
Fig. 1

A viewing scope for producing high quality color images with low levels of object illumination has light source (14) which illuminates the object with a timed, patterned sequence of light at different wavelengths. Light reflected from an object transfers through the viewing scope to an image intensifier (41) and video camera (42) for producing a video signal. A video processor (25) synchronized to the light source (14) converts the video signal into discrete image frames corresponding to the light reflected at each discrete wavelength. An image memory (46) retains each frame for conversion into a color video signal that produces a color display of the object being viewed.