

Newly Designed Video Camera Brings Near-IR Imaging and Affordability Together

Palatine Illinois, April 10, 2008 – FJW Optical Systems, Inc. today announced availability of the Find-R-Scope model 85700 and 85706 Near-IR Cameras. These cameras allow imaging in the Near-IR at a cost that is typically only 30% the cost of a solid state InGaAs FPA. Using proven infrared viewing technology, these high performance infrared vidicon cameras provide images that cannot be seen by the naked eye.

“An additional advantage of these cameras is their spectral sensitivity” says Barry Durr, Director of Sales & marketing for FJW. “While typical InGaAs cameras cut off at 1700 nm (1.7 μ), our 85700 and 85706 cameras are sensitive from the visible, out to 1800 nm and 2200 nm respectively. These High Performance Video Cameras utilize a 2.54cm (1”) PbO-PbS Super Infrared Vidicon and sophisticated electronics to provide uniform high resolution, low geometric distortion, and low noise performance without compromising long term stability.”

Compared to conventional surveillance type cameras, these cameras excel in resolution, image distortion, stability, etc. To view, save, or process the image, the cameras utilize a std. BNC style coaxial output to connect to external devices such as monitors, VCRs, frame grabbers, image processors, etc. The cameras provide the video output in either NTSC or PAL formats.

FJW's Near-IR Cameras provide a variety of features that help to assure quality imaging and long camera life. All crystal timing assures stable synchronization resulting in highly uniform and geometrically accurate images. Excellent overall image contrast can be achieved automatically with these cameras by using the automatic gain control (AGC) feature. AGC eliminates the need for manual adjustments in situations where light intensity varies over time. In addition, the user can select one of four fixed gain values which allow for repeatable gain settings. Built-in anti-vignetting counteracts variations in center-to-edge exposure. The gamma correction with Soft Peak White Clipping feature, compresses the image dynamic range so that an observer will be able to see detail in the very dark areas and very light areas of the picture at the same time. Automatic beam current regulation, and horizontal and vertical sweep failure protection circuits have been incorporated to prevent damage to the imaging tube should the horizontal or vertical synchronization signals be lost.

With their standard C-mount, the cameras can utilize a variety of lenses and filters. A 25mm, *f*:1.4 lens is supplied standard, while optional wide angle or telephoto lenses are available. A variety of both standard and special order filters can be supplied with the camera. Most popular is the 830nm long-pass visible blocking filter that improves the signal to noise ratio while imaging in the Near-IR region.

Founded in 1945, FJW Optical System, Inc is the world leader in infrared and UV Viewers. FJW provides viewer and camera solutions to military and aerospace, education, research, art & document authentication, laser and LED alignment and characterization, fiber optic evaluation, semiconductor wafer and IC inspection, microscopy, fine arts, observation and surveillance, and many other industries and applications.

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