

BAE SYSTEMS RIO-10X4 Range Instrumentation Optic

BAE SYSTEMS

has been developed to replace the aging Zoomar Optics found on many instrumentation radar systems. Known for its lighted projected reticle and excellent boresight retention, the Zoomar is not easily replaceable by simple COTS equipment until now. The RIO is a high performance TV camera lens assembly with a zoom range of 10 to 1 providing a field of view from 0.44 degrees to 4.4 degrees. The lens assembly includes F/3.8 optics, zoom, focus, exposure and an illuminated boresight reticle. The RIO exhibits excellent boresight retention and offers a lighted projected reticle necessary for precision radar alignment. This system also provides a spectral filter to maximize the camera's ability to detect targets through the atmosphere. The TV camera lens assembly is controlled via an RS-422 and can be controlled from a remote operator console or provided controller.

- Video Format RS-170 / PAL (Color available)
- Frame Rate 60 Hz / 50 Hz
- Serial Interface RS-422
- Power 110/220 auto switching
- Environmental Systems are sealed and back filled with dry nitrogen.
- Operation -50 to +50 degrees C
- Storage -20 to +60 degrees C
- Features Zoom, Focus, Exposure, AGC, Shutter
- Sensitivity .03 Lux
- Camera Weight 85 pounds
- Sensor 768 x 494 CCD
- Sensor Pitch 4 micron x 4 micron
- Spectral Band Visible
- f-no 3.8 @ .44 degree FOV
- FOV 4.4 to .44 degrees horizontal
- Resolution .0009 degrees horizontal
- Control Panel (Option) Rack Mount
- Boresight X-Y Plate 3 ° adjustment in both X and Y axis to fit FPS-16, MPS-25, RIR-778, Nike and custom designs

