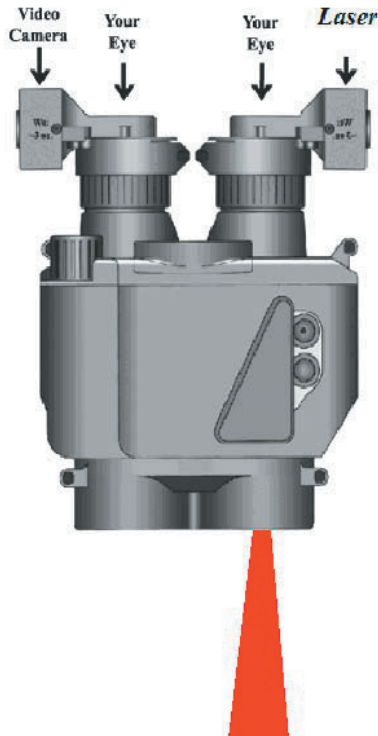


## TPB Binocular Adapter System

### Image Capture / Transmission / Enhancement

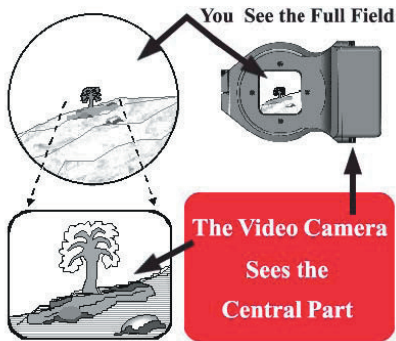


The Brandes Associates TPB is a binocular image enhancement adapter system designed to upgrade existing binocular (or scope/riflescope) equipment, providing active illumination and video capture capability without obscuring the operator's view.

Ideal for night vision devices, spotting scopes, riflescopes, and other optical systems, the TPB can retrofit any existing binocular, into a portable, low-cost platform similar to the Intevac LIVAR system. The TPB's advanced beamsplitter design, with its dual surface films and special IR transmission properties, minimizes loss of light through the optical path. An optional rangefinder can identify reflective targets, such as optical sensors pointed at the operator by snipers. The ocular attachments adapt to most optical systems; for example, camera sensors can be b/w, color or low-lux special systems.

Active illumination can be provided in either the visible spectrum, the IR spectrum or by instant flash in the IR spectrum. Illumination can be generated by a defocused laser (pulsed) or by an IR diode in the 800-950 nm range. The TPB design provides day or night

enhancement by processing the video sensor output obtained through the ocular attachment with the Brandes Associates TIPS system. As a result, digitally enhanced video can be processed to "see" through fog, haze and mirage. A miniature viewfinder display can insert this enhanced image into the optical path for the operator to view.



- ▶ Easy attachment/removal on any pre-existing optical system
- ▶ Directly connects to recording or wireless transmission
- ▶ EO cameras can be b/w, color or low-lux specialty systems
- ▶ Active illumination can illuminate targets at 3-5 km
- ▶ Certain active illumination can be used to find snipers
- ▶ Very light weight (100 grams) & connects to TPS system for real-time enhancement

