

TRACK 4: MISSION SYSTEMS / VIRTUAL TRAINING**“COMMON APERTURE MULTISPECTRAL SPOTTER CAMERA (“SPECTRO XR”)**

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ABSTRACT

The Spectro XRTM is an advanced colour/Near-Infrared (NIR)/Short Wave Infrared (SWIR)/Medium Wave Infrared (MWIR) 16” payload recently developed by Elbit Systems / ELOP. The payload is suitable for a variety of airborne platforms, ship mast and ground installations. The payload’s primary sensor is a spotter camera with common 7” aperture. The sensor suite also includes MWIR zoom, Electro-Optics (EO) zoom, laser designator or rangefinder, laser pointer / illuminator and laser spot tracker. Rigid structure, vibration damping and 4-axes gimbals enable high level of line-of-sight stabilization. The payload’s list of features includes multi-target video tracker, precise boresight, strap-on Inertial Measurement Unit, embedded moving map, geodetic calculations suite and image fusion. The paper describes main technical characteristics of the spotter camera.

BIOGRAPHY OF SPEAKER

Vladimir Petrushevsky received his MSc degree in mechanical engineering from Bauman University of Technology, Moscow. He worked in the field of missile and spacecraft technology in the Soviet Union and, from 1992, in Israel. Vladimir works at Elbit Systems / ELOP from 1999, specialising in imaging physics, opto-mechanics and line-of-sight stabilisation. As a principal systems engineer, he leads the development of visible, infrared and multispectral camera technologies for airborne reconnaissance and surveillance systems.