CENTRAL INTELLIGENCE AGENCY Declassified in Part - Sanitized Copy Approved for Release 2014/03/12: CIA-RDP80T00246A026801790001-7 United States within the meaning of the Espionege Laws, Title COMPIDENTIAL NO FOREIGN DISSEM 50X1-HUM Yugos levie /USSR REPORT approx. Jan 1963 SUBJECT Soviet Electro-Optical Aerial DATE DISTR. Intercept Device in Yugoslavia NO. PAGES REFERENCES DATE OF 50X1-HUM INFO. PLACE & DATE ACQ. THIS IS UNEVALUATED INFORMATION. SOURCE GRADINGS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE 50X1-HUM The Yugoslavs have received, or are testing, a device manufactured in the Soviet Union for the electro-optical intercept of sircraft, missiles, rockets, etc. One of the devices was tested during September 1962 on a hill near Belgrade, in the Avala district. The device consists of a type of telescope, short and wide (diameter 20-30 cm; length 70-90 cm) and en electronic device connected to the telescope by small cables. A cathode repaire (monitor) is an integral part of the instrument. the optical system 50X1-HUM of the telescope projects the image on a "mosaic of photodiodes", each of which is the size of a "head of a"pin" 50X1-HUM If no serial body appears in the visual field of the telescope, the mosaic of photodiodes is uniformly illuminated or, if dark obsecure sp50X1-HUM do appear, they do not have clear-cut contours. If, on the other hand, the visual field shows bars denoting the image of an serial body, the mosaic of the "n" photodiodes remain uniformly illuminated through "n-1" diodes, while on the "l" diode appears a small spot. Under these latter conditions, the appeartus gives an elera which lasts only if the point of luminous discontinuance of the mosaic moves. The movement of the point can be followed on the cathode ray monitor with which the apparatus is equipped. The solid angle viewed by the telescope is noteworthy; there is a significantly wide area of sky covered in sighting. The apparatus can be used to obtain a "storm warning" independently of its to in redio locating; it can also be used to track the flight of sircraft, whose trejectories appear on the monitor tube. The device does not, however, supply faring data or quantitative information on the course of intercepted aircraft. COMPXDENTIAL

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50X1-HUM

1.	Comment:	never heard of	50X1-HUM
	the existence of a device of this type. With current		
	not difficult to achieve a mosaic of photodiodes, individually very small.		
	Also, the annexed electronic circuit does not present		50X1-HUM
	difficulties, and can be to a large extent transistorised.		OOXIIIOW

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50X1-HUM

