Science and Weapons Daily Review

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	A Soviet military journal reported the development of a laser device to simulate gunfire for training armor crews; the		
	device can reduce training times, is safer and more economical than live ammunition, and, in some respects, can		
	provide a more effective means of training than traditional methods.	25 X 1	
	THE NETHERLANDS: US UNDERWATER CAMERAS RELEASED BY DUTCH		
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	According to the US Embassy at The Hague, Dutch customs has lifted its hold on two US-manufactured underwater cameras		
	slated for shipment to the USSR; although the cameras do not		
	incorporate state-of-the-art technology, they will provide access to the entire ocean floor, including the Marianas		
	Trench.	25 X 1	

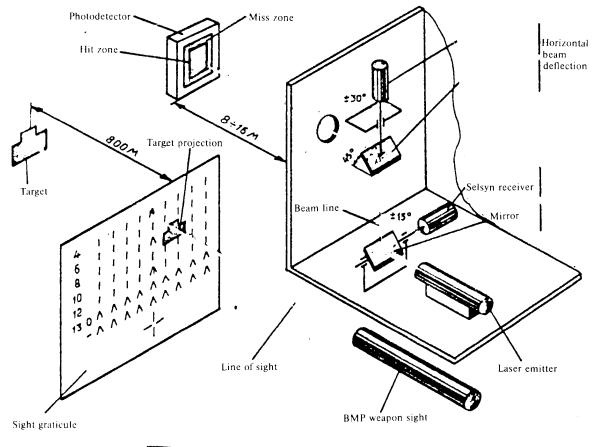
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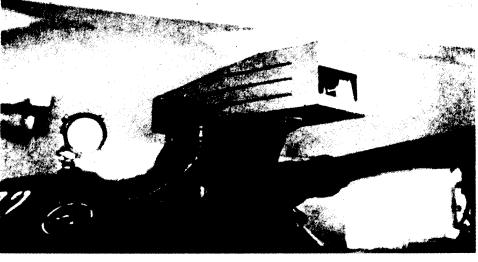
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ISSR: GUNNERY TRAINING DEVICE FOR ARMORE	O VEHICLE	25 X 1
A recent issue of the Soviet military journal zertraining device for the BMP armored personneon laser to simulate gunfire (see figure). To designated LTU-7, has reduced the time requisit to 50 percent. The laser, designated LG-70.63 micrometers and has an output power of	el carrier that uses a h he Soviets claim the d lired for BMP gunnery t 78, operates at a wavel	elium- evice, raining by
According to the journal, prior to actual train laser head of the LTU-7 on the BMP's antitan bracket. The training director boresights the photodetector array when the reticle of the E a prescribed target downrange (for example, training director can move the laser remotely vertical displacements required for each target before the individual targets are presented to mounted photodetector array is outside the f gunner's sight and is not seen by the gunner engagements (see figure).	tk guided missile launch laser so that it falls or BMP gunner's sight is lateral at the tank at 800 meters). It record the horizontal et, and reposition the lateral the BMP crew. The tried-of-view of the BMP	her n a aid onto The and aser ripod-
Training with the LTU-7 occurs on a regular training, the BMP gunner detects and engage LG-78 laser emits a short-duration pulse. If laser beam is detected by the photodetector if not, a "miss" is displayed and the location immediate feedback to and correction by the	s a target. When he fi the gunner is on targe array and a "hit" is dis of the "round" is show	res, the t, the played;

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BMP Gunnery Training Device





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Comment:	
The LTU-7 has several advantages:	
 It can reduce the time required to master basic gunnery skills. Soviet estimates of timesavings of 33 to 50 percent are reasonable. 	
 It is safer and far less expensive to use for gunner training than live ammunition. 	
It is a good training tool because it is used with actual combat equipment. Gunnery training occurs in a BMP, requires detection of targets through actual BMP optics under natural observation conditions at realistic ranges, and employs established fire-	
control procedures.	25 X 1
A major disadvantage of the LTU-7 is that it can be operated only when the target is stationary; the gunner cannot engage moving targets. US training systems include laser detectors mounted on moving targets.	25 X 1
The Soviets' use of a helium-neon laser is logical. Such lasers are cheap and compact, require little power, minimize eye hazard potential, and are visible—a condition desirable for alignment during setup.	25X1
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ГНЕ	NETHERLANDS: US UNDERWATER CAMERAS RELEASED BY DUTCH CUSTOMS FOR SHIPMENT	
	TO USSR	25X′
	According to the US Embassy at The Hague, Dutch customs has lifted its hold on two underwater cameras, allowing the purchaser—the Dutch firm Ortech—to ship them to the USSR. Dutch officials had detained the US—manufactured underwater cameras, which can operate at a depth of 11,000 meters, at	
	Schipol Airport just prior to shipment to Moscow. Officials were suspicious because Ortech is not a valid manufacturer, distributor, or sales representative for marine equipment, and is well known to Dutch	
	intelligence services for its trading activities with Warsaw Pact countries.	25 X 1
	Comment:	
	Although the cameras do not incorporate state-of-the-art technology, they do provide access to the entire ocean floor, including the Marianas Trench. Dutch officials made every effort to respond to US concerns, but had no legal basis to seize the equipment, which was not on the Dutch national control list. Although the cameras are not COCOM controlled, they require a license from the State Department's Office of Munitions Control, which would not have issued one in this case. Most countries, including The Netherlands, do not recognize the US legal principal of extraterritoriality. Equipment under unilateral US controls, therefore,	
	can be legally shipped through third countries to proscribed destinations.	25 X 1

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