'Smart' Bombs Are Guided to Targets

By RICHARD WITKEN

class of weapon with startling accuracies that they say have brought the destruction of key bridges and other targets in the bridges and other targets in the bridges and other targets in the beam until the beam until

"They are being routinely this way: defended point targets," an Air The box defended point targets," an Air Force spokesman said the Thanhhoa and Longbien Force spokesman in the Penta- in its nose. The pilot or other Bridges were two examples of gon said yesterday.

temworks this way:

A laser beam, an extremely the target.

seeker picks up laser energy tary situation.

Both types of system, according to unclassified technical arrelative to the bomb, are fed into the computer. And the into the computer. And the weather. But whereas the Types of System, according to unclassified technical arrelative to the bomb, are fed into the computer. And the weather. But whereas the Types of System according to the into the computer. And the weather. But whereas the Types of System according to the into the computer. And the weather according to the into the computer. And the weather the target that the system according to the into the computer. The target tary situation.

In missiles with television cameras to direct them to their target after they have been according to the system. the tail of the bomb.

The bomb should "home" in the laser system can operate They are variously referred on the target so long as the almost in the dark. to as "smart" bombs or "guid-laser beam is trained on it. ed" bombs or "hobos," short An attacking plane may take the laser beam be trained on whatever the nomenclature, flak so long as the crewman operating the laser beam continues to move his controls to keep the beam trained on the credit this recently developed bridge or other objective.

evasive action to avoid enemy frectically be done from an infantryman's ground position not too far away.

The "smart" bombs being bridge or other objective. evasive action to avoid enemy the target. And this could theo-

The television system works ing or TV devices.

crewman aboard the attacking North There are two main varieties plane manipulates the camera of these bombs—those that are mechanisms and finally "locks" had been used. He declined to say which television-guided. The laser sys- The bomb is then released, and type of system had been used

No Continued Aiming

computer sends guidance in-system requires daylight and structions to steering vanes on targets with a relatively high degree of black-white contrast,1

The only requirement is that

current air campaign in Indo-china. the beam until the bomb from the attack plane hits the mark. pounds. Special kits have been devised containing the guide vanes, and either the laser sens-

Vietnamese

it is automatically guided to in either case. The current issue of Aviation Week says that intense and narrow beam of light, is directed at the intended target, either from the plane that will drop the guided bombs or from a companion craft—perhaps a forward spotter plane. This is known as the target designator.

The bomb to be dropped has a detector device, known as a seeker, and a computer. The seeker picks up laser energy

No Continued Aiming

The TV-guided bomb is completely on its own after it leaves the attacking plane. No crewman need worry about any continued aiming.

An Air Force expert said each of the two basic types of "smart" bomb had its advantages, depending on the milister with television cameras to direct them to their the Thanhhoa

Air Force's is called Maverick.

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