HENSOLDT FIRE CONTROL SYSTEM

Sighting Device for shoulder launched weapon systems

The Sighting Device with integrated Fire Control System (FCS) is developed for shoulder launched weapon systems, like the RGW 90 family system. It is equipped with a laser rangefinder, ballistics computer and an internal micro display with electronic reticle. It allows the shooter to engage a target with a high first-hit probability even at a range of up to 1.200 meters. With an optical clip-on night-vision the system is also usable at night.

The FCS is attached to the launcher within seconds and the menu-guided operation of the FCS can be done by one person with no need for any further support. The gunner is able to measure the distance to the target and select the fuse mode. The integrated FCS ballistics computer calculates offset and lead angle to automatically display the aiming mark.

The type of ammunition can be identified, and the appropriate operating menu is selected automatically when attached to the launcher. Even if the battery is empty the Sighting Device can still be used for aiming and firing at targets at lower distances (direct hit operation by means of an etched reticle).

The Sighting Device is already prepared for use with guided missile systems (fire and forget) for a range up to 2000 meters. The gunner is also able to fight against targets in cover. The electronic interface of the weapon provides an input for an external video signal (seeker head camera) which can be viewed on the internal display to identify and mark the target object.

FEATURES AND BENEFITS

- Optical day sight
- Electronic sensors for air temperature/pressure, terrain angle and cant angle
- Laser rangefinder
- Optional clip-on night-vision
- Ballistics calculator
- Micro display
- Mechanical and electronic interface (including video signal input)
- Angular rate sensor

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Optical data	
Field of view	11°; 19.4 m/100 m
Magnification	5.5 x
Identification Range	1200 m (human target) 2400 m (Nato Standard Target)
Internal Display of • aiming mark • seeker image	max. resolution: 800 (v) x 600 (h) elevation angle: 0° to 10°, Azimuth: ~ ±3.8° monochrome video signal (PAL)
(internal shutter to block day sight view when seeker image displayed)	
Laser rangefinder	
Range	<2100 m (Nato Standard Target)
Resolution/Accuracy	±1 m up to 1200 m distance
Measuring Time	max 0.5 sec
Transmitter	=1550 nm, class 1 (eyesafe)
Beam Divergence	1 mrad x 1 mrad
Ballistics computer	
Calculation Time for position of aiming mark	<1 sec
Interface to weapon	
Mechanical	According to MIL Standard 1913A (Picatinny Profile), extended base
• including electronic contacts for	serial data communication (RS 485) power supply (12 VDC) monochrome composite video input (mono, compatible with PAL standard)
Compatible weapon systems	
RGW 90 Familiy (DND); Enforcer (MBDA); Easy to customize for other systems	
General data	
Weight	~2.2 kg
Dimensions (LxHxW)	28 cm x 14 cm x 16 cm
Temperature Range	-40°C to +70°C (storage) -32°C to +63°C (operation)
Power Supply	4 x batteries CR 123
Sensors	air temperature, air pressure, terrain & cant angle, angular rate

Hensoldt Fire Control System on Recoilless Grenade Weapon 90

Hensoldt Fire Control System with Night Sight Device NSV 600

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