

Lightweight Gun Signature Simulator (LGSS)



LGSS 16 (operation mode)



LGSS 32 (operation mode)



LGSS without frame
e.g. for vehicle mounting

Application

To enhance realism during tactical training the possibility to simulate different weapon effects such as hostile and artillery fire, booby traps or a tank main gun, is needed. The LGSS enables the soldier to train under stress in force-on-force or force-on-target exercises by simulating direct or indirect fire and hits. It is also deployable in urban operation training as a scalable means to simulate detonation from bombs or IED.

Description:

The LGSS is a launcher available in 16 or 32 shots versions. It is using pyrotechnic cartridges from the MECS family (Multiple Effects Cartridge System) such as the MGSS, the FBSS, the airburst and the colour smokes simulators. By means of these cartridges the launcher delivers single shots, bursts or salvo firings and therefore provides realistic combat situations. It can be wirelessly initiated by an instructor as well as by hardware when connected to a trigger, a trip wire or a motion sensor.

Characteristics:

The effects characteristics depend on the cartridges configuration chosen. The firing sequence can be programmed by the user to meet his requirements. The effects available are those provided by the MECS cartridges (flash-bang-smoke and coloured smokes) which stay in the launcher until they are unloaded.

Specifications:

Dimensions: (length/width/height)	LGSS 16 = 335 x 302 x 285mm LGSS 32 = 485 x 302 x 285mm
Weight: (steel frame + battery)	LGSS 16 = 10.2kg LGSS 32 = 14.7kg
Battery:	Pb, 12V, 7200mAh
Operating time:	up to 120h with battery
Power supply:	Ext 12 V — 32 V DC
Power consumption:	20 mA (Standby)
Peak power:	3 A per round (max. 500 ms)
Safety delay time:	30 seconds
Safety warning signal:	acoustical and optical
Temperatures:	Storage -33°C to +71°C Operation -30°C to +49°C
Service interface:	Trigger input (5-32V DC): 20mA READY-TO-FIRE-OUT Radio (433MHz/315MHz/458MHz) 2 x RS 485 (daisy chain) Ethernet (prepared) CAN Bus (prepared)
Ammunition type:	MECS M30/M31
References:	In service with various NATO-Countries
Product Codes:	NATO Stock Numbers:
LGSS 16: 9219600	1370-12-382-5022
LGSS 32: 9219700	1370-12-382-5025
Packaging:	Optional as per customer requirement