



PROTOTYPA LS-06 Intelligent Light Gates – is device designated to measure the velocity of shot projectile going through active area of both light gates. LS-06 can measure the velocity of single shot or velocities of projectiles in burst and rate of fire. LS-06 records all measured values and consequently calculates the statistics values of measured group of rounds. The results are displayed on the screen of personal computer with BMS software.

LS-06 is appropriate device for testing of cartridges according to MC MOPI AEP-97, C.I.P., SAAMI, MIL, GOST, TPVD or other standards.

LS-06 is convenient equipment for personal armour testing (AEP-2920, NIJ 0101.06, VPAM) or protection level armoured vehicles evaluation (AEP-55).

LS-06 double represents two independent velocity measurement systems. The light gates LS-06 double consists of four light gates placed on one frame. Final velocity of projectile is calculated as arithmetical average of two independent measured velocities (NIJ 0101.06).

Main features of LS-06:

- Device measures bullet velocity of individual shot or rate of fire and velocity of each bullet in burst. Device is easily mobile.
- The size and specifications of the light gates can be customized on request.
- Device is controlled by PC computer (or laptop). Interface is Ethernet cable or Wi-Fi connection.
- Uses friendly BMS software supports other Prototypa ballistic measurement devices with automatic data export.
- BMS software shows graph of bullet passage throw gates.
- SAU-2UT (SAU-4UT for double gates) electronic box with programable trigger output for X-ray, high speed camera, etc.

Technical parameters of LS-06:

Measured parameters:	Bullet velocity, Rate of fire	Weight:	90 kg (Single), 105 kg (Double)
Principle of measurement:	two light emitters and light detectors	Power AC:	90-260 V / 50-60 Hz, 100 VA max
Calibre range:	from 4,5 mm to 40 mm	Power DC:	9-18 V, 100 VA max
Interface:	10/100 Ethernet, USB, Wi-Fi	Active area:	0.6 m ² (760x800 mm)
Bullet velocity – Range:	25 – 2000 m/s	Ingress protection:	IP63
Bullet velocity – Resolution:	0.1 m/s	Base:	1 m (2 m optionally)
Rate of fire – Range:	2 – 10 000 rpm	Optional accessories:	
Rate of fire – Range:	0.01 rpm		
Accuracy:	0,2%		
Operating temperature range:	-10°C to +40°C		
		- Armoured protection	
		- SAU-4QU for chamber pressure measurement	
		- PYAW Projectile Yaw Measurement System	
		- POTSS Optical Scoring System	

