



01 / CAPABILITY OVERVIEW

MVRS

Muzzle velocity radar system MVRS



FIG 01 PRODUCT CONFIGURATION

40 to 1500 m/s

VELOCITY MEASURING RANGE

Pd = 0.9

DETECTION PROBABILITY

Pfa = 10E-6

FALSE ALARM PROBABILITY

25 %RANGE REDUCTION WITH 4 MM/H
PRECIPITATION

01.1 / OVERVIEW

A radar system for precise measurement of projectile muzzle velocity, intended primarily for 155 mm and 122 mm self-propelled artillery weapons but applicable to other self-propelled or towed artillery, integrated into the weapon or mounted on a tripod.

TYPE

Fire control & survey

PROCUREMENT AND COMPLIANCE

Supply is exclusively for government and institutional end-users. Availability is subject to destination screening, a state-issued export licence and a verified End-User Certificate.



02 / TECHNICAL SPECIFICATION

TECHNICAL DATA

MVRS / TECHNICAL EQUIPMENT

PERFORMANCE

Velocity measuring range	40 to 1500 m/s
Range reduction with 4 mm/h precipitation	25 %

INTERFACES AND OPERATION

Operation	all meteorological conditions, day and night
-----------	--

ADDITIONAL TECHNICAL DATA

Detection probability	$P_d = 0.9$
False alarm probability	$P_{fa} = 10E-6$
Measuring cadence, on line display	max 20 projectiles/min
Off line processing, burst fire	1000 projectiles/min, max 15 s data acquisition
Stored projectile, charge and barrel types	up to 1000
Stored velocity measurement results	up to 1000
Signal processing	digital
Operating mode	automatic, no additional load on operators after activation
Self-test	complete autodiagnosics of hardware at system activation
Mounting	modular, external mounting for integration in any weapon, tank or combat vehicle, or on a tripod