

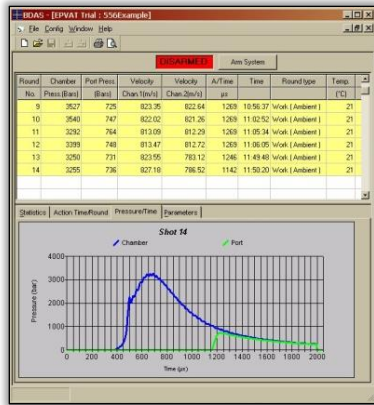
Universal Control

BALLISTICS DB CONTROL SOFTWARE TYPE 950-571

Ballistics DB is the most important control software in the MSI range. This sleek, yet functional interface is the front end of all MSI test range instrumentation, adapting to each system with ease, being customized prior to each shipment.

The software can be set up and operated with ease, for all in-house sensor systems. It provides statistical analysis and printouts, whilst allowing calibration functions to be applied.

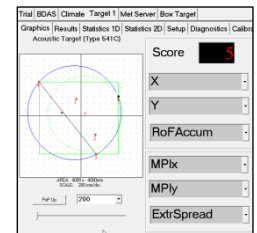
Simple and helpful, the ergonomic design allows effortless operation. Ballistics DB Control Software is the essential core of all our sensor systems, and brings universal control to the range.



EFFORTLESS OPERATION

SOFTWARE

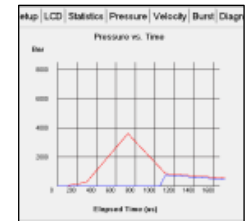
- **Windows Compatibility** of Ballistics DB means that it works with all types of computers operating in this environment.
- **Integral microprocessor** in all MSI measuring equipment enables the units to communicate digitally by cable, radio, or other telemetry link (UHF or Wifi) to the Range Processor.
- **Control** of nearly all MSI range equipment is done by Ballistics DB. The software is developed in-house for operation with all sensor systems produced by the company.



Column	Visible	Printout	Width
Extreme Spread (mm)	<input type="checkbox"/>	<input type="checkbox"/>	900
Group Size (mm)	<input type="checkbox"/>	<input type="checkbox"/>	1065
Mean Radius (mm)	<input type="checkbox"/>	<input type="checkbox"/>	1380
Mean Radius (mils)	<input type="checkbox"/>	<input type="checkbox"/>	930
R 50% (mm)	<input type="checkbox"/>	<input type="checkbox"/>	1170
R 100% (mm)	<input type="checkbox"/>	<input type="checkbox"/>	1125
Group SD (mm)	<input type="checkbox"/>	<input type="checkbox"/>	1545
Group SD (mils)	<input type="checkbox"/>	<input type="checkbox"/>	1545
Group Circle (mm)	<input type="checkbox"/>	<input type="checkbox"/>	1545
CX (mm)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	900
CY (mm)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	825
Dev X (mm)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1125
Dev Y (mm)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1020
Mid X (mm)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	885
Mid Y (mm)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	960

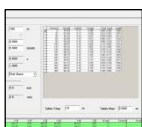
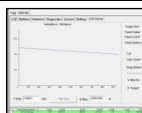
- **Three different, password-protected user levels** – Supervisor, Instructor, and Operator – keeps more complex and security relevant data separate from the day-to-day control operations. This separation allows the different skills required at each level to be learned more quickly.
- **Customisation** prior to shipment provides an integrated ‘Trial’ Tab specific to customer requirements. Each system has its own associated control tab on which the unit’s setup parameters can be configured.

- **All possible data** is recorded automatically as each shot is fired, ensuring minimal risk of transcription error. Data fields in the trial table can be switched on and off for the purposes of simplifying screen displays and printouts.
- **Common data format**, typically Microsoft Excel or Access, allows the user to undertake ‘desktop’ trials on historical data, thus reducing the need for costly and time-consuming live-firing trials.
- **Meteorological and environmental data** relevant to the trial may be recorded using MSI’s range of solid-state monitoring systems. Data from these units are recorded on a shot-by-shot basis.



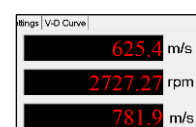
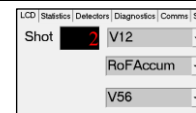
Calculation Mode	Default Flight Path	Follow Position	Min Alt
Flight Angle	00.00 deg	Slope Shot Angle	00.00 deg
Shot Tracking	00.00 m	Slope Shot Angle	00.00 deg
Tossion Height	00.00 m	Slope Shot Offset	01.13 deg
Barrel Length	00.00 m	Track Distance	03.15 m

- **Every event is synchronised** to improve the integrity of the data by eliminating false triggers.
- **Built-in tests** are performed by Ballistics DB at start-up on the communication, and all components of the range. Diagnostic test results are reported and errors are displayed.
- **Wide range of data analysis functions** is provided as standard, and additional functions are available as options. The statistical functions may be sub-divided according to various groupings and analysed separately, e.g. with different colours on the graphic display.



KINETIC is a special version of the Ballistics DB software that is typically used by forensic and ballistic material test establishments.

- It measures velocity
- Provides a range of ballistics models
- Analysis of velocity and rate-of-fire profiles



MS Instruments Ltd.

Unit 4, Ravensquay Business Centre, Cray Avenue
Orpington, Kent, BR5 4BQ, United Kingdom
Tel: +44 (0)1689 883 020
Fax: +44 (0)1689 871 392
contact@msinstruments.co.uk
www.msinstruments.co.uk

ISO 9001 SCS cert. No. 980010
950-571-ballisticsdbcontrolsoftware - Jul-17

The information in this document is correct at the stated time. MS Instruments Ltd has a policy of continuing development and reserves the right to make design changes/improvements to the products.



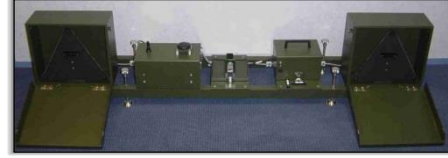
Universal Control

USED WITH

Acoustic Targets



Acoustic Target Type 530

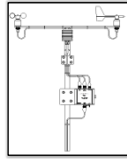


Acoustic Target Type 541

Atmospheric Instrumentation



*Meteorological Station
Type 574*



*Meteorological Station
Type 574-200*



Indoor Climate Monitor Type 598



Intelligent Infrared Light Source Type 788

Data Processors



Remote-Control Transceiver Type 573



Range Processor Type 663



Ballistic Data Acquisition System (BDAS) Type 680



Pressure Measurement Unit Type 683



Variable Delay Unit Type 769

Optical Targets



Large Area Optical Target (LAOT) Type 340



Optical Target Type 546

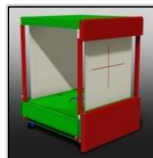


Optical Target Type 570

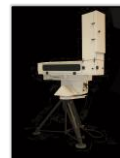
Projectile Analysis



Safety Firing System Type 157



*Shot Pattern Analyser
Type 616*



*Automated Flight-Follower
Type 631*



Mini Flight-Follower Type 632

MS Instruments Ltd.

Unit 4, Ravensquay Business Centre, Cray Avenue
Orpington, Kent, BR5 4BQ, United Kingdom
Tel: +44 (0)1689 883 020
Fax: +44 (0)1689 871 392
contact@msinstruments.co.uk
www.msinstruments.co.uk

ISO 9001 SCS cert. No. 980010
950-571-ballisticsdbcontrolsoftware - Jul-17

The information in this document is correct at the stated time. MS Instruments Ltd has a policy of continuing development and reserves the right to make design changes/improvements to the products.