BallAX 4.2

Ballistic Application Software





BallAX 4 is used for acquiring and analyzing of ballistic measurement data from firearms, guns, artillery, projectiles and grenades using different ammunition and explosive propellants.

Data gathered by the software aids in determining the accuracy and consistency of a projectile before it exits a firearm. Manufacturers of firearms ranging from basic hunting rifles to critical military artillery

will benefit from the precision data afforded by this industry specific software module. BallAX 4 works with all different type of data acquisition instruments from Elsys, with pressure sensors from any different manufacturer and a wide range of Kistler charge amplifiers.

Elsys AG Mellingerstrasse 12 CH-5443 Niederrohrdorf Switzerland

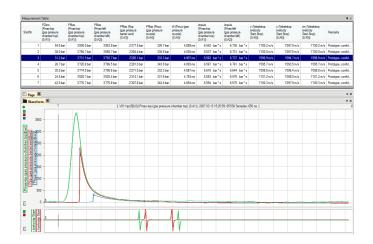
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Content

Key Specification	2
Veasurement Table	
Channel Configuration	
Report Generator	
Formula Editor	
Target	

Key Specification

- Single Shot and Continues Fire analysis
- Quick and easy configuration of many analog input channels
- Data visualization of complete test series
- Kistler Charge Amplifier Integration
- Closed Vessel analysis according to TL 1376-0600
- No programming required
- Target visualization
- More than 30 scalar functions to calculate ballistic specific parameters
- English and German version
- Data export to TPC5 and ASCII data format
- · Report generator, based on freely editable MS-Excel templates



Measurement Table

Parameters

The measurement table shows all measured and calculated data. After each shot, a new line is insert and the calculation of the wished parameters is started. A parameter can be either a predefined scalar calculation like Pmax, t1- 6, bullet speed or any results from a generic formula.

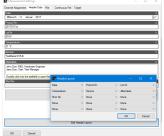
Statistic Calculation

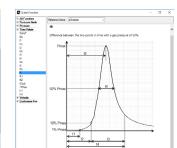
Statistic lines can be insert after any number of shots for calculation of Mean, Standard Deviation, Min and Max values.

Header Data

The header data can be modified and adapted to your needs. All these field and information can be re-used later on for generating the measurement report.

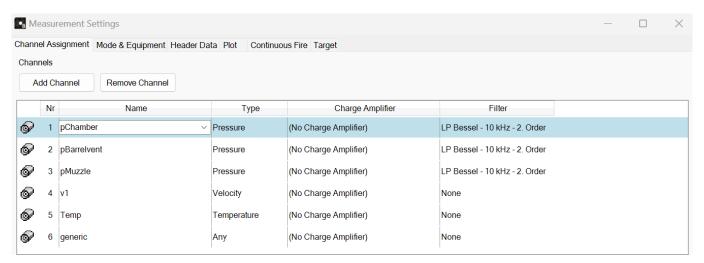






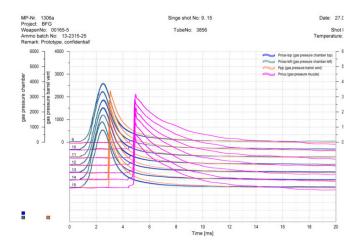
Channel Configuration

The signal chain is configured in the channel assignment. External charge amplifiers or signal filters can be set for each channel.

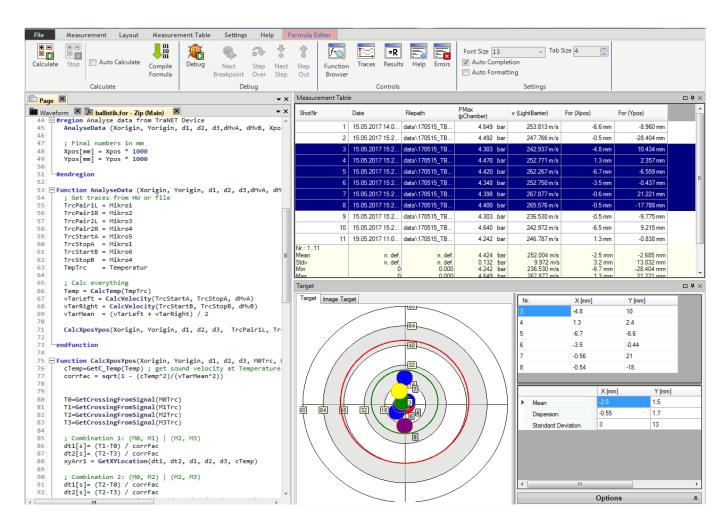


Report Generator

Measurement Reports are generated in BallAX with Excel Templates. Key Words in the template are replaced by the measurement data and header information once the report is generated.



Report	
Test Declaration	%TestDeclaration%
Location	%Location%
Job Number	%JobNumber%
MP-No.	%MPNo%
Project	%Project%
Ammo Batch Number	%AmmoBatchNo%
Tube Number	%TubeNo%
Shot Load	%Shotload%
Weapon Number	%WeaponNo%



Formula Editor

The Formula Editor is a powerful tool for post processing your measurement data or to calculate any parameter which is not already defined in the Scalar Function list of the measurement table.

Target

Target data can be visualized with the built-in Target display. BallAX is compatible with any kind of target hardware type and manufacturer. The calculation of the coordinates can be defined and modified in a formula file.