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Calibration Specification for Bullet Speed Measuring Devices

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(English Translation)

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Table of Contents

Introduction (II)
1 Scope (1)
2 Reference documents (1)
3 Overview (1)
4 Measurement characteristics (2)
5 Calibration conditions (2)
5.1 Environmental conditions (2)
5.2 Measuring equipment and other equipment(2)
6 Calibration items and calibration methods (3)
6.1 Calibration items (3)
6.2 Calibration method (3)
7 Expression of calibration results (5)
8 Recalibration interval (6)
Appendix A Calibration Original Record Format (7)
Appendix B Internal page format of calibration certificate (9)
Appendix C Evaluation Example of Measurement Uncertainty (10)
Appendix D Standard Time Interval and Speed Comparison Table (17)

8 Recalibration interval (6)

Appendix A Calibration Original Record Format (7)

Appendix B Internal page format of calibration certificate (9)

Appendix C Evaluation Example of Measurement Uncertainty (10)

Appendix D Standard Time Interval and Speed Comparison Table (17)

Introduction

This specification is based on JJF 1071-2010 "Rules for the Compilation of National Metrology and Calibration Specifications" and JJF 1059.1-2012 "Evaluation and Expression of Measurement Uncertainty" was compiled.

This specification is released for the first time.

Calibration specification for bullet speedometer

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1 Scope

This specification is applicable to bullet speedometers that use the photoelectric speed measurement principle and the speed range is 10m/s~1000m/s.

For calibration, this specification does not apply to bullet speedometers with other speed measurement principles.

2 Reference documents this specification refers to the following documents.

GA/T 718 The Forensic Scientific Identification Criteria of Firearms GA/T 824 Code for the construction of forensic science bullet inspection laboratory for dated reference documents, only the dated version applies to this specification; for undated reference documents, the latest version (including all amendments) is applicable to this specification.

3 overview

The bullet velocimeter is a measurement of various barrel shooting weapons (using tubular equipment to launch projectiles, usually smaller than 20mm) instruments or equipment with parameters such as the firing speed and specific kinetic energy of the metal or other material projectiles, which work the principle is that the bullet passes through the two layers of photoelectric screens in turn to generate photoelectric signals, and the time interval measurement unit measures the trigger light of the front and rear screens.

The time interval of the electrical signal is combined with the distance between the two screens for data processing to obtain the bullet speed. The bullet speedometer is generally composed of it is composed of photoelectric screen, speed measurement and display unit and output printing part, which is widely used in criminal investigation, Forensic appraisal and research on gun performance, etc.

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