



Member of the FM Global Group

**Examination Standard
for
Video Image Fire Detectors
for
Automatic Fire Alarm
Signaling**

Class Number 3232

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Foreword

This standard is intended to verify that the products and services described will meet stated conditions of performance, safety and quality useful to the ends of property conservation. The purpose of this standard is to present the criteria for examination of various types of products and services.

Examination in accordance with this standard shall demonstrate compliance and verify that quality control in manufacturing shall ensure a consistent and reliable product.

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1 INTRODUCTION

1.1 Purpose

- 1.1.1 This standard states testing and certification requirements for Video Image Fire Detectors (VIFD) for Automatic Fire Alarm Signaling.
- 1.1.2 Testing and certification criteria may include performance requirements, marking requirements, examination of manufacturing facility(ies), audit of quality assurance procedures, and a surveillance program.

1.2 Scope

- 1.2.1 This standard applies to Video Image Fire Detectors (VIFD), and Video Image Fire Detection Systems (VIFDS) for Automatic Fire Alarm Signaling for the protection of occupants, building space, structure, area, or object and designed to detect products of combustion in a specific location.
- 1.2.2 This standard applies to Video Image Fire Detectors intended for use in fire alarm signaling or extinguishing system applications that operate via the image within the field of view area as defined by the camera. This standard employs test protocol dependent on the installation and operating instructions provided by the manufacturer. This information assists in defining the limits for the overall application and certified use of the product.
- 1.2.3 A Video Image Fire Detector is a combination Video Image Smoke and Flame Detector (VIS&FD) and will be examined in accordance with this standard and will be listed as a Video Image Fire Detector.
- 1.2.4 Other types of commercially available video image detectors (such as Flame only) may not be applicable to the test protocol described in this document.
- 1.2.5 These detectors are intended to be installed in accordance with the manufacturer's installation instructions and in accordance with ANSI/NFPA 72 *The National Fire Alarm Code* and in a manner acceptable to the local Authority Having Jurisdiction. Other NFPA Standards may apply, such as those covering extinguishing system applications.
- 1.2.6 The Video Image Fire Detector is not intended to be a direct replacement for standard open area protection, but does offer detection capabilities not possible with conventional detectors. Special consideration must be given to Video Image Fire Detectors regarding the overall system's sensitivity and special care required to reduce the possibility of false alarms.

1.3 Basis for Requirements

- 1.3.1 The requirements of this standard are based on field experience, research and testing, and/or the standards of other organizations. The advice of manufacturers, users, trade associations, jurisdictions and/or loss control specialists was also considered.
- 1.3.2 The requirements of this standard reflect tests and practices used to examine characteristics of Video Image Fire Detectors (VIFD) for the purpose of obtaining certification. Video Image Fire Detectors having characteristics not anticipated by this standard may be certified if performance equal, or superior, to that required by this standard is demonstrated.