

## DS-QFV1002

### Vibration Fiber Optical Sensing Terminal



- Supports dual channel DAS vibration fiber.
- Supports long-distance detection with a single-channel detection distance up to 10 km.
- Supports simultaneous positioning and monitoring of multiple vibration points with high positioning accuracy of  $\pm 5$  m, frequency response range from 0.1Hz to 5kHz, and alarm response time  $\leq 1$  s.
- Effectively monitors intrusion in different scenarios including climbing, crossing, and excavation, reports information including the alarm type, time, latitude and longitude, and alarm level, and processes alarm events.
- Supports setting parameters for the scenario, sensitivity, and more with the integrated Hikvision algorithms.
- Strong environmental adaptability. With passive and flexible characteristics, the fiber can be installed in various complex terrains, not restricted by power supply conditions. It can withstand harsh environments such as moisture, temperature variations, and is resistant to ammonia, chlorine, salt spray, acid rain, and more.

*\*Distributed Positioning Vibration Fiber System is a detection system based on the coherent detection technology. It achieves precise positioning through the optical time domain reflectometry ( $\phi$ -OTDR), combined with a backend data analysis and processing module, enabling effective monitoring of vibrations. Additionally, the device significantly reduces false alarms with smart recognition capabilities for natural environmental interferences.*

## ▪ Specification

Basic Parameter	
Sensing Principle	Distributed Acoustic Sensing
Single-Channel Detection Range	10km
Channel	2
Fiber Type	Single mode (ITU-T G.652D)
Positioning Accuracy	±5m
Frequency Response	0.1Hz to 5kHz
Unit	Configurable. Configure according to fiber length and unit interval.
Alarm Response Time	≤ 1s
Storage	
HDD Storage	Support 1 256G SSD and 1 1T Mechanical HDD
Network	
Network Protocol	Support ISAPI、OTAP、TCP
Interface	
Audio Out	1 audio out interface
Power Interface	1 power input interface with 100~240V AC power input
Function Interface	6 USB 3.0 interfaces, 2 1000M network interface, 1 VGA interface, 1 HDMI interface, 1 DVI interface, 2 RS-232 interface, 3 SMA interface
General	
Power	Server : 100-240V ~ 50/60Hz 2.5A ; Processor : 100-240V ~ 50/60Hz 1.8A
Material	Metal
Dimension	Server : 186 mm x 483 mm x 475 mm (7.32" × 19.02" × 18.70") Processor : 145 mm x 483 mm x 498mm (5.7" × 19" × 19.6")
Package Dimension	Server : 370 mm x 660 mm x 650 mm (14.57" × 25.98" × 25.59") Processor : 270mm x 615 mm x 635 mm (10.63" × 24.21" × 25")
Color	Black
Weight	Server : Approx. 15 kg(33.07 lb.) Processor : Approx. 10 kg (22.05 lb.)
Operating Temperature	-15 °C to 55 °C (5 °F to 131 °F)
Operating Humidity	0% to 93% (± 2%)
Power Consumption	< 60 W
Laser Classification	Class 1

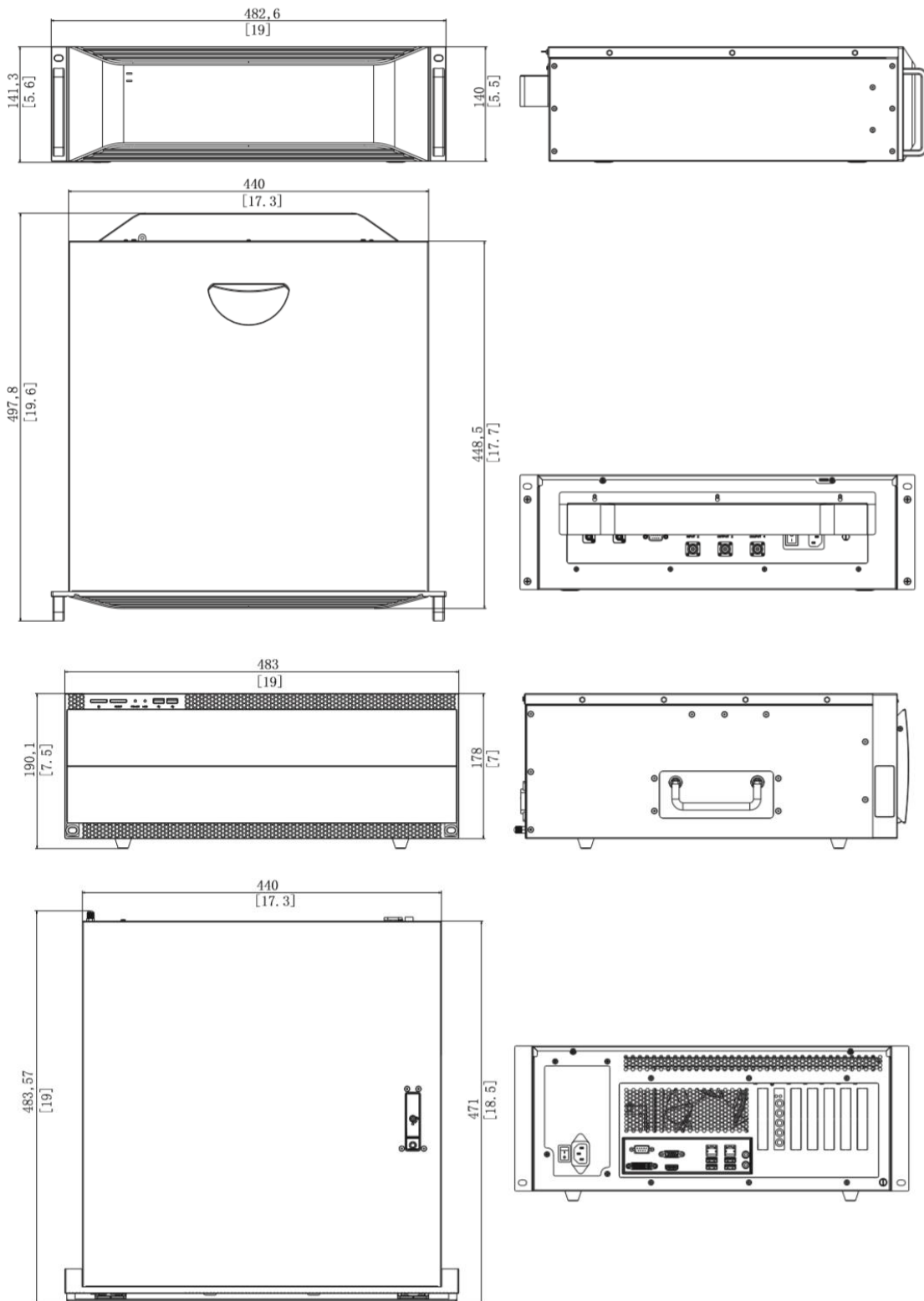
## ▪ Typical Application

Scenarios: airports, railways, cultural heritage sites, high-end buildings, business parks, schools, and basic facilities for energy, and more.

▪ Available Model

DS-QFV1002/套装

▪ Dimension





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