

DS-QFV0102W**Wall mounted Distributed Vibration Fiber-Optic Sensing Server 1KM Dual-Ch**

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 (ϕ -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.

- Supports dual channel DAS vibration fiber.
- Supports long-distance detection with a single-channel detection distance up to 1 km.
- Supports simultaneous positioning and monitoring of multiple vibration points with high positioning accuracy of ± 5 m, frequency response range from 10 Hz to 5 kHz, and alarm response time ≤ 2 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.
- 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.

▪ Specification

Basic Parameter	
Fiber Type	Single mode (ITU-T G.652D)
Channel	2
Single-Channel Detection Range	1km
Positioning Accuracy	1km : ±5m
Frequency Response	10Hz to 5kHz
Unit	≤ 120 per channel
Alarm Response Time	≤ 2s
Function	
Alarm Trigger	Intrusion alarm, Fiber cut alarm, Tampering alarm
LED Indicator	Power indicator: Solid blue: Device is connected to the power supply and powers on Blue light is not on: Device powers off Status indicator: Solid blue: Device works normally without any error Red light flashes slowly: Wired network error Solid red: Device error (including all-in-one model error, FPGA exception, HDD error, tampering alarm)
Buzzer	Stay buzzing for tampering alarm
Switch	Rocker switch for power
Communication	
Communication Method	Wired communication
Interface	
Fiber Interface	2 FC/APC fiber interfaces
Power Interface	1 power input interface with 24V DC power input
Function Interface	1 1000 M network interface, 1 RS-232 interface, 2 RS-485 interface, 2 USB 3.0 interfaces, 1 3.5 mm audio interface, 2 alarm input interfaces, 16 relay interfaces
General	
Material	Metal
Power	24 VDC ± 15%, max.60 W
Color	silvery
Power Consumption	< 60 W
Operating Humidity	0% to 93% (± 2%)
Laser Classification	Class 1
Dimension	417 mm × 337 mm × 151 mm (16.42" × 13.27" × 5.94")
Weight	Approx.10 kg (22.05 lb.)
Operating Temperature	-40 °C to 60 °C (-40 °F to 140 °F)

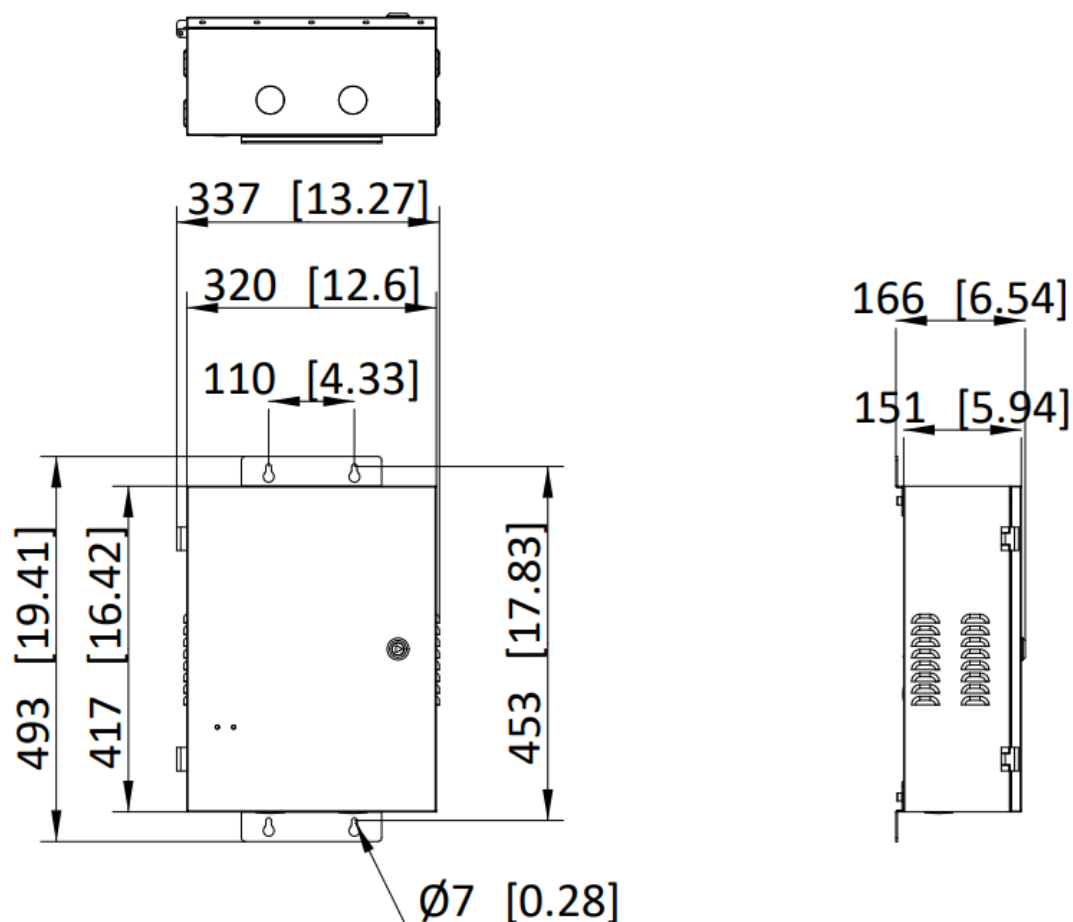
▪ Typical Application

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

▪ **Available Model**

DS-QFV0102W

▪ **Dimension**



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