

Single Element 25um Infrared Detectors Active Area 1x1mm Analog Output 2-14μM

Basic Information

- Place of Origin: SHENZHEN
- Brand Name: FOVA
- Certification: CE;FCC
- Model Number: YZT-TCQ-02
- Minimum Order Quantity: 3
- Packaging Details: 117 × 65 × 64 mm
- Delivery Time: 7-15 working day
- Payment Terms: T/T
- Supply Ability: 100000Pcs/Month



Product Features



Product Specification

- Pixel Pitch: 25 Microns
- Operating Temperature: -40 To 85 Degrees Celsius
- Output Type: Analog
- Weight: 0.4 Grams
- Dimensions: 5.3x5.3x4.4 Mm
- Response Time: Microseconds
- Active Area: 1x1 Mm
- Spectral Range: 2-14 Microns
- Highlight: **25um Infrared Detectors, Single Element Infrared Detectors, Analog Output Infrared Detectors**

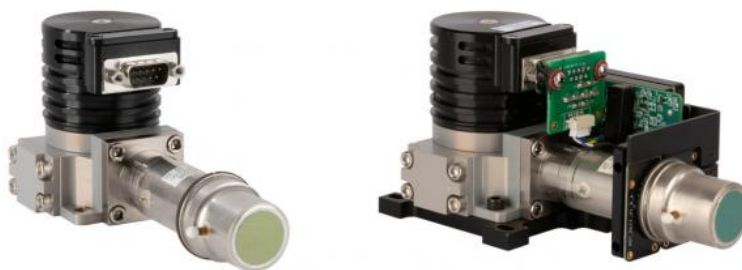


Product Description

Single Element 25μm Infrared Detectors Active Area 1x1mm Analog Output 2-14μm -40 to +85°C

Gas Detectors

YZT-TCQ-02 Medium Wave Narrowband Cooled Detector



Product Features



F-number
Options



High Integration



High Reliability



Low Power



Special Image
Algorithm



NETD

Product Features

F-number optional:	F1.2/F1.5
High Integration	
High Reliability	MTTF ≥ 8000h
Low Power	12W@23°C
Specially image algorithm	
NETD	15mK

Application Areas

Used for gas detection in industrial production, industrial bases that require safe and efficient long-distance detection. Used for industrial purposes such as construction, pipeline inspection, and line maintenance.

Technical Parameters

Detector	Detector Type	Mid-wave infrared small detector
	Resolution	640 × 512
	Pixel size	15μm × 15μm
	Response band	3.2μm ~ 3.5μm
	Effective pixel rate	≥ 99.5%
	Refrigeration time at room temperature (23°C)	< 7mins 30 s
	Refrigeration method	Integrated Stirling Cooler
	F-number	1.5
	Service life (MTTF)	8 000h
Video Output	Frame rate	2 5H z / variable frame rate
	Analog Output	PAL / NTSC
	Digital Output	Cameralink (14-bit raw data or 8-bit video data)
Control performance	Image Adjustment	Contrast, brightness, image polarity, shutter correction, background correction, detail enhancement, electronic magnification
	Cross-section	show/ Blanking
	Integration time	Continuously adjustable (50 ~ 150ms)
power supply	Input voltage	DC 24V ± 4V
	Power consumption	Cooling 2 4 W / Steady 1 2 W
Environmental parameters	Operating temperature	-40°C ~ +60°C
	Storage temperature	-50°C ~ +70°C
	Size	148.5 mm × 85.5 mm × 77 mm (without lens)

Physical properties		
	Weight	≤ 803 g (without lens)

Product Description:

With a response time of microseconds, our infrared small detectors are incredibly fast and provide accurate results every time. The active area of these detectors is 1x1 mm, making them ideal for use in small spaces where larger detectors may not be suitable.

Our infrared small detectors are highly sensitive, making them perfect for use in a variety of different applications. They are also designed to operate with a supply voltage of 3-5V, making them easy to integrate into a wide range of systems.

Whether you're looking for an infrared beam detector, an infrared camera module, or an infrared night vision telescope, our Infrared Small Detectors are the perfect solution. They are reliable, efficient, and provide accurate results every time.

Features:

Product Name: Infrared Small Detectors

Spectral Range: 2-14 Microns

Active Area: 1x1 Mm

Package Type: TO-5

Weight: 0.4 Grams

Dimensions: 5.3x5.3x4.4 Mm

This product is ideal for use in:

Infrared Night Vision applications

IR Security Cameras

Infrared Thermometer Cameras

Technical Parameters:

Package Type	TO-5
Features	High Responsivity, Low Noise, Wide Dynamic Range
Weight	0.4 Grams
Output Type	Analog
Active Area	1x1 mm
Response Time	Microseconds
Supply Voltage	3-5 V
Dimensions	5.3x5.3x4.4 mm
Detector Type	Single Element
Sensitivity	High

This Infrared Small Detector is ideal for use in Infrared Beam Detectors, Infrared Thermal Imaging Cameras, and Infrared Night Vision systems.

Applications:

The FOVA YZT-TCQ-01 Infrared Small Detector finds its application in a variety of fields such as Thermal Imaging, Gas Analysis, and Flame Detection. It is a great tool to detect and measure heat and gas leaks, and can also be used to detect the presence of flames in industrial settings.

In addition, this product can be used in IR Security Cameras, where it can detect and analyse thermal radiation and provide Infrared Night Vision capabilities. The FOVA YZT-TCQ-01 Infrared Small Detector can help to improve the accuracy and precision of IR Security Cameras, making them more effective in detecting intruders and potential threats.

The FOVA YZT-TCQ-01 Infrared Small Detector has a minimum order quantity of 3, and is delivered in packaging of 117 × 65 × 64 mm.

The product has a supply ability of 100000Pcs/Month and a delivery time of 7-15 working days. Payment terms for the product are T/T, making it easy to acquire. The product can operate in temperatures ranging from -40 to 85 degrees Celsius, making it ideal for use in a wide range of scenarios and applications.

FAQ:

Q: What is the brand name of the infrared small detectors?

A: The brand name of the infrared small detectors is FOVA.

Q: What is the model number of the infrared small detectors?

A: The model number of the infrared small detectors is YZT-TCQ-01.

Q: Where are the infrared small detectors manufactured?

A: The infrared small detectors are manufactured in SHENZHEN.

Q: What is the certification of the infrared small detectors?

A: The infrared small detectors are CE certified.

Q: What is the minimum order quantity for the infrared small detectors?

A: The minimum order quantity for the infrared small detectors is 3.

Q: What are the packaging details for the infrared small detectors?

A: The packaging details for the infrared small detectors are 117 × 65 × 64 mm.

Q: What is the delivery time for the infrared small detectors?

A: The delivery time for the infrared small detectors is 7-15 working days.

Q: What are the payment terms for the infrared small detectors?

A: The payment terms for the infrared small detectors are T/T.

Q: What is the supply ability of the infrared small detectors?

A: The supply ability of the infrared small detectors is 100000Pcs/Month.



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