FLIR QL320 Quantitative OGI Tablet

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Website

http://www.flir.com

Customer support

http://support.flir.com

Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.

General

The FLIR QL320 lifts your FLIR GF320, GFx320, Gx320, GF620, Gx620 or G620 camera to a level where recorded sequences give you an indication of the flow rate of the visualized gas leak. A powerful software algorithm, designed by Providence Photonics and sold exclusively through FLIR, enables simple use of the QL320 in the field for immediate results or as a post processing device when combined with Q-Mode from a FLIR OGI camera. Make the right decisions, based on leak rate indications rather than pure visualization. The included background validation checks for appropriate Delta T conditions as a requirement for accurate OGI results. Overall the FLIR QL320 is an easy to use in-field solution for those who want to visualize and quantify gas leaks in one working step.

Key features

- FLIR Branding & support
- Q-Mode compatible (does not require the QL320 to be “tethered” to the camera)
- Can now quantify leaks in terms of ppm*m (CL)
- Isopleth display of concentration profile where the color indicates the concentration density.
- Ability to measure concentration in a region of the FOV, in ppm*m.
- Single image snapshot with the colorized plume overlay and the 10-second rolling average result as an overlay on the image.
- Quantifies mass leak rates, volumetric leak rates and CL leak rates
- Gas colorization
- Delta T Screening tool
- Ruggedized IP65 Touch Screen Tablet
- Archiving
- Ability to perform multiple ”notches” on the plume extraction ring

Response Factor Calculations

How well the FLIR QL320 quantifies a specific gas compound is a function of how sensitive the camera is to that gas. This can be measured relative to a reference compound, with the resulting value called Response Factor (RF). For example, say an RF value for benzene is 0.755 in reference to propane (propane value = 1.000). This means when a FLIR OGI camera visualizes benzene, the image is 75% as strong as an image of propane. An RF value below 1.0 would signify a potentially weaker image, while an RF value above 1.0 signifies a stronger image (e.g. an RF of 1.75 means the image is 75% stronger).

To determine the RF value for other gases, check out the free RF Calculator at www.flir.com/response-factors.

System	
Compatible cameras	FLIR GF620, FLIR GFx320, FLIR GF320, FLIR Gx320, FLIR Gx620, FLIR G620
Gases detected	Methane, most hydrocarbons[1]
Measurement modes	Mass leak rates (g/h, lb/h, MT/h), volumetric leak rates (cc/min, L/min, or SCFH), or concentration length (ppm*m)
Measurement tools	Δ temperature screening, plume highlighting, colorized gas concentration profile
Image modes	Single image snapshot with colorized plume and quantitative result

1. See www.flir.com/quantify-gases for a list of nearly 400 potential gases.

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Hardware	
Display	11.6" sunlight readable TFT LCD capacitive touchscreen
Resolution	1920 × 1080
Touchscreen	Reinforced touchscreen; scratch and shatter resistant film
Input	On-screen keyboard; 6 buttons (1 user-definable)
Environment	• ANSI/ISA 12.12.01–2000 (Class I, Division 2) • IP65 ingress protection
Durability	MIL-STD-810G certified, IP65-certified sealed all-weather design
I/O interfaces	SD card reader (microSDXC), USB 3.0 (Type A) × 2
Communications	Bluetooth V 5.0, 4G LTE mobile broadband
Power	AC adapter 100–400 V, 50 Hz-60 Hz, 65 W
Battery	Li-Ion Battery, 11.1 V, 3.95 Ah, 8 hours
Dimensions	308 × 200 × 29 mm (12.1 × 7.88 × 1.12 in)
Weight	1.2 kg (2.7 lb)

Shipping information	
Packaging type	Reusable box with handle
Packaging contents	Tablet (battery included), AC Adapter/Power Cord (for the USA*), USB Cable, MicroSD card, and Documentation *) For other regions, please use an AC Power Adapter with the following specification: 19 V, 3.42 A, 65 W, 5.5 / 2.5 mm
Packaging weight	3.3 kg (7.3 lb), excluding USB Cable, MicroSD card, and Documentation
Packaging size	38.1 × 30.5 × 12.7 cm (15 × 12 × 5 in.)
Country of origin	USA

Compatible with the following products:

- N/A

TWINHEAD

CE

Declaration of Conformity

Twinhead International Corp.
11F, 550 Rueiguang Road, Neihu, Taipei, Taiwan 11492, R.O.C.

Tablet PC

Model No. : R11XXXXXX（X is 0~9, A~Z, blank or symbol）

Confirm to the following production Specifications:

----------Standards----------

2014/30/EU -EMC Directive			
Emission Standard EN 55032: 2015 / AC: 2016 Class B		Immunity Standard EN 55024:2010+A1:2015	
Conducted and Radiated Emission	EN 55032: 2015 / AC: 2016 Class B	Electrostatic discharge Immunity	EN 61000-4-2
		Radiated Immunity	EN 61000-4-3
		Electrical Fast transients / burst Immunity	EN 61000-4-4
Harmonics current emission	EN 61000-3-2	Surge Immunity	EN 61000-4-5
		Conducted Immunity	EN 61000-4-6
Voltage fluctuation Test	EN 61000-3-3	Power-frequency magnetic field Immunity	EN 61000-4-8
		Voltage dips and short interruptions Immunity	EN 61000-4-11

2014/35/EU -Low Voltage Directive (LVD)	
Information technology equipment – Safety	EN 60950-1

2014/53/EU -RED Directive	
EN 301 489-1	EN 300 440
EN 301 489-17	EN 301 908-1
EN 301 489-19	EN 301 908-2
EN 301 489-52	EN 301 908-13
EN 303 413	EN 50566:2017
EN 300 328	
EN 301 893	
2009/125/EC ErP Directive	
2012/19/EU WEEE Directive	
2015/863/EU ROHS Directive	

Additional information

Adaptor model： FSP065-REBN2

Software Version

Intel Wlfi&BTversion：20.80.0.5

Sierra LTE version：01.08.04.00_GENERIC_002.012_000

Authorized Representative:

Manufacturer: Twinhead International Corp. .

Address: 11F, 550 Rueiguang Road, Neihu, Taipei, Taiwan 11492, R.O.C.

Signature : James Lai 2020 2/20 .

Name : James Lai .

Date: 2020/2/20

MATERIAL SAFETY DATA SHEET

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UN Manual of Tests and Criteria, Part III, Subsection 38.3 (Test T1-T8) Independent Certificate

Model(s):
R11AH 3S1P
23+050802+02

Version 1.4
Nov. 12th,2021