



EPA OPTICAL GAS IMAGING STAKEHOLDER WORKSHOP

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# ADVANCEMENTS IN OGI TECHNOLOGY, TRAINING, AND REPORTING

TUESDAY, NOVEMBER 10, 2020

# PRESENTATION TOPICS

- ❖ In-camera quantification
- ❖ Geolocation mapping
- ❖ 3<sup>rd</sup> party reporting with file synchronization
- ❖ Virtual training offering



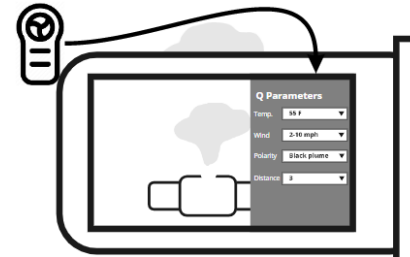
# CURRENT QOGI FLOW (WITH Q-MODE)



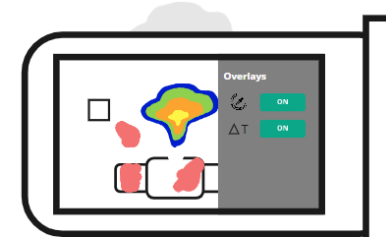
User finds leak with camera and chooses to quantify



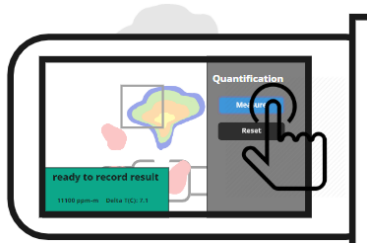
Use camera on a tripod



Necessary parameters are added in the camera



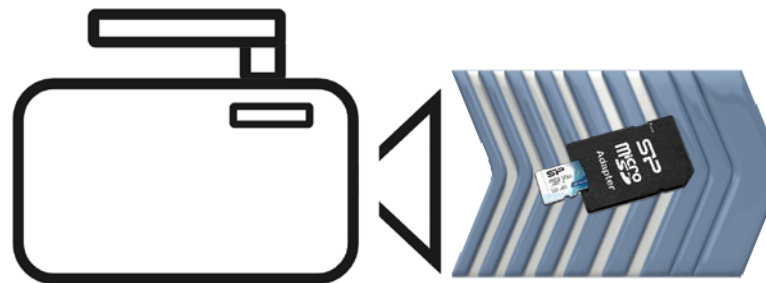
Turn on Delta T overlay if desired



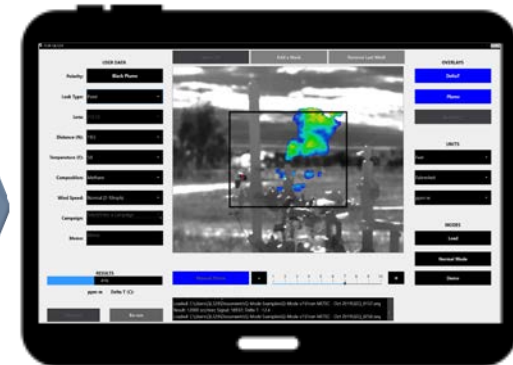
Click "Measure" to start quantification



Record ~10 seconds of leak for result (Q-Mode)

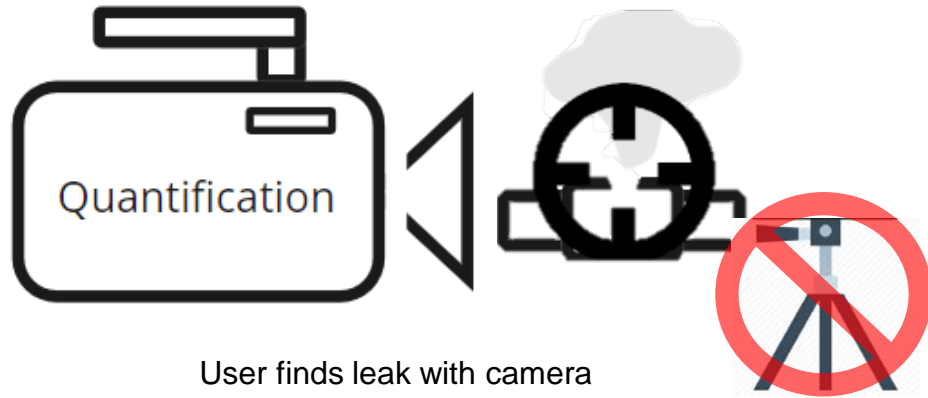


Transfer Q-Mode files to tablet via SD card

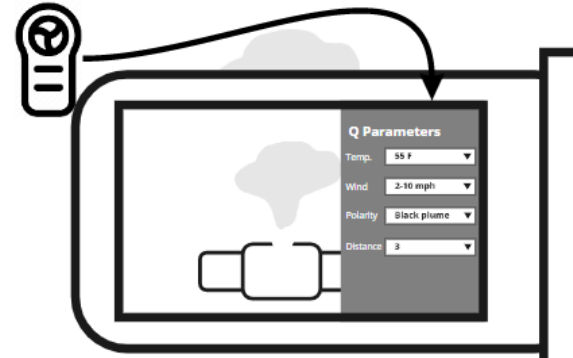


Process Q-Mode File in QL320 tablet

# QOGI IN CAMERA (PPM-M)



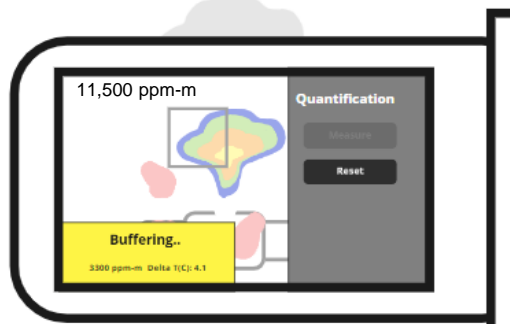
User finds leak with camera and chooses to quantify



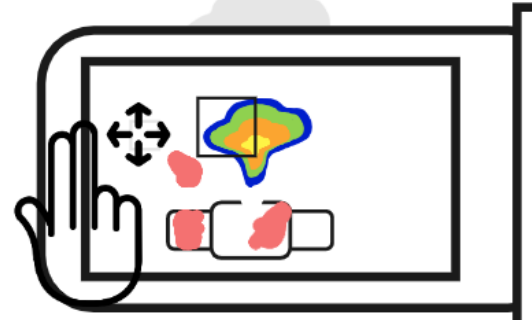
Necessary parameters are added in the camera



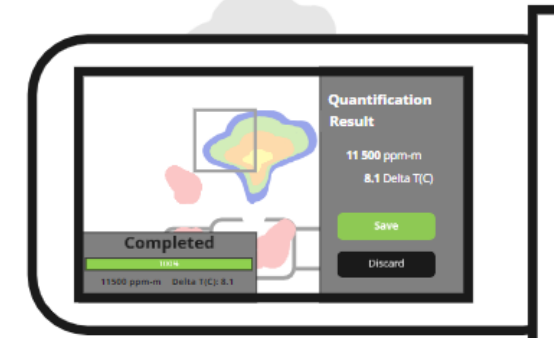
Overlays are added if desired



Camera shows reading with rolling result



Box is drawn over leak in frozen image

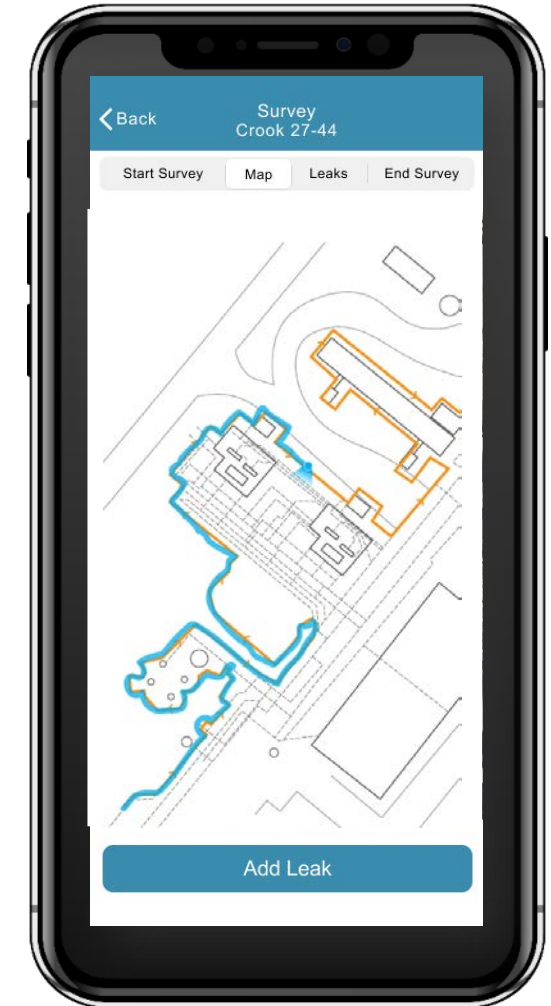
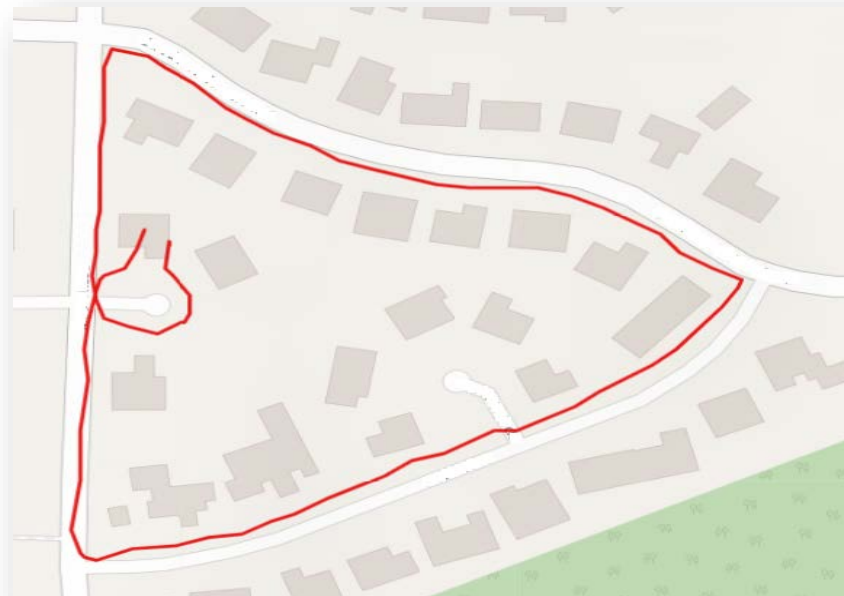


Display result and save file (if desired)

# GEOLOCATION MAPPING

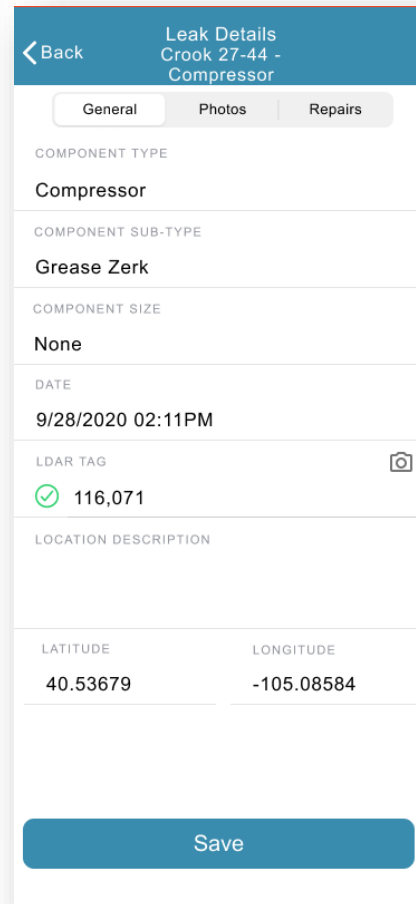
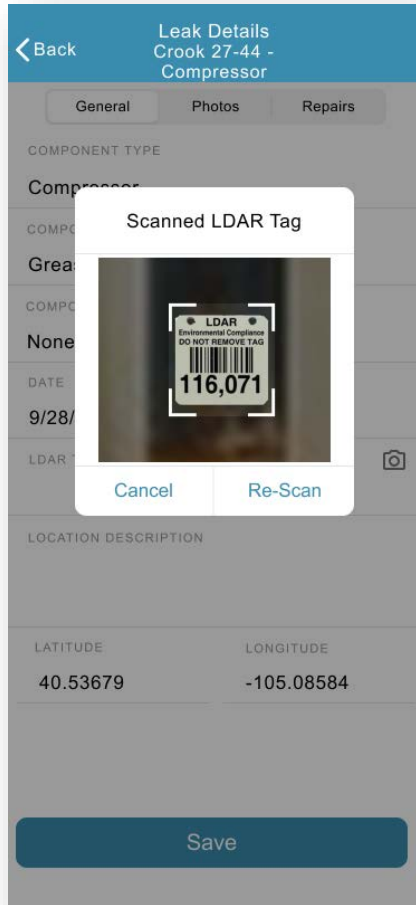
- ❖ Ensure observation path is followed during survey
- ❖ Extracting GPS data directly from instrument
- ❖ Potentially removes need to record video of the entire survey
- ❖ Validate data with 3<sup>rd</sup> Party Mobile App

N 32°57.536'	W 96°58.594'		
N 32°57.531'	W 96°58.593'	N 32°57.548'	W 96°58.604'
N 32°57.527'	W 96°58.66'	N 32°57.545'	W 96°58.596'
N 32°57.528'	W 96°58.61'	N 32°57.542'	W 96°58.597'
N 32°57.532'	W 96°58.61'	N 32°57.543'	W 96°58.597'
N 32°57.540'	W 96°58.61'	N 32°57.543'	W 96°58.597'
N 32°57.548'	W 96°58.61'	N 32°57.544'	W 96°58.597'
N 32°57.560'	W 96°58.66'	N 32°57.543'	W 96°58.598'
N 32°57.562'	W 96°58.66'	N 32°57.539'	W 96°58.599'
N 32°57.561'	W 96°58.66'	N 32°57.540'	W 96°58.597'
N 32°57.559'	W 96°58.66'	N 32°57.540'	W 96°58.599'
N 32°57.562'	W 96°58.61'	N 32°57.540'	W 96°58.600'
N 32°57.567'	W 96°58.61'	N 32°57.540'	W 96°58.600'
N 32°57.575'	W 96°58.61'	N 32°57.534'	W 96°58.604'
N 32°57.582'	W 96°58.66'	N 32°57.526'	W 96°58.600'
N 32°57.588'	W 96°58.66'	N 32°57.517'	W 96°58.598'
N 32°57.588'	W 96°58.66'	N 32°57.513'	W 96°58.592'
N 32°57.586'	W 96°58.66'	N 32°57.510'	W 96°58.588'
N 32°57.578'	W 96°58.66'	N 32°57.519'	W 96°58.584'
N 32°57.570'	W 96°58.66'	N 32°57.524'	W 96°58.583'
N 32°57.563'	W 96°58.66'	N 32°57.538'	W 96°58.584'
N 32°57.555'	W 96°58.66'	N 32°57.538'	W 96°58.582'
		N 32°57.538'	W 96°58.582'
		N 32°57.537'	W 96°58.584'



LEAKTRACKER PRO  
powered by Tribhydro

# STREAMLINED DOCUMENTATION



## ❖ Leak Documentation

- ❖ Leak Details and Description
- ❖ LDAR Tag
- ❖ Pictures & Videos
- ❖ Quantification (QOGI)

## ❖ Repair Documentation

- ❖ Scan LDAR Tag
- ❖ View Leak (Photos & Video)
- ❖ Repair & Confirm

# EFFICIENT RECORDKEEPING

## ❖ Mobile App Upload

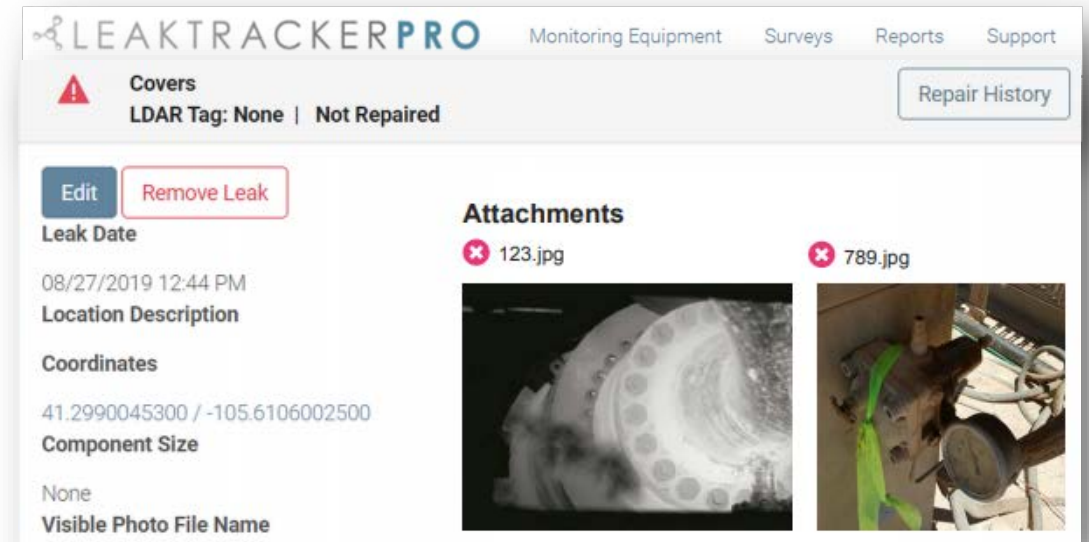
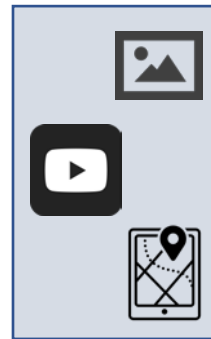
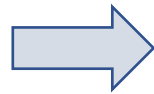
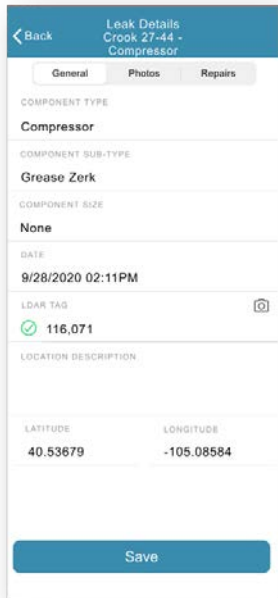
- ❖ Survey Details
- ❖ Leak Data
- ❖ Survey Path (GPS)

## ❖ OGI File Sync

- ❖ One-Click
- ❖ Pictures & Video
- ❖ Camera Path (GPS)

## ❖ Survey Completion

- ❖ Software Verified (GPS)
- ❖ Deviation Notes
- ❖ User Certified





# VISUALIZATION & REPORTING

**LEAKTRACKER PRO** Monitoring Equipment Surveys Reports Support

**Thief Hatch** | Produced Water Tank 2, Enardo 660  
LDAR Tag: TANK LEAK 1 | Not Repaired Repair History

Edit Remove Leak

**Leak Date**  
10/20/2020 12:20 PM

**Location Description**  
Produced Water Tank 2, Enardo 660

**Coordinates**  
40.1900317000 / -80.5900650000

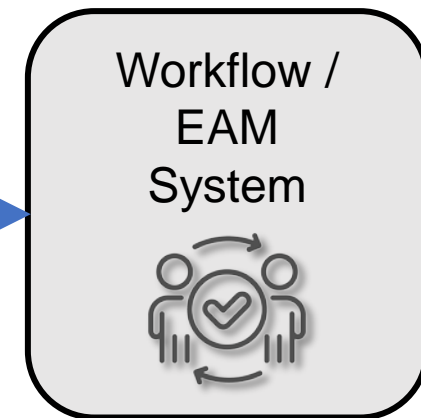
**Component Size**  
None

**Visible Photo File Name**  
DC\_1255

**Attachments**  
IR\_1255.jpg

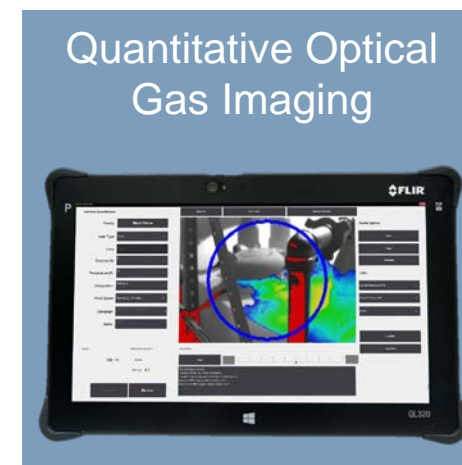
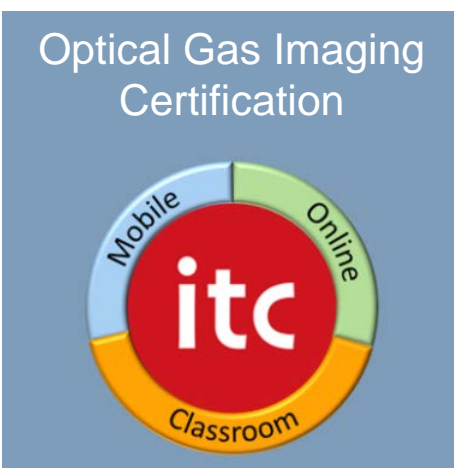
Add...

- ❖ Dashboard (Map & KPI)
- ❖ Leak & Repair Workflow
- ❖ Compliance Reporting
- ❖ Notifications



# VIRTUAL TRAINING CURRICULUM

- ❖ Courses from the Infrared Training Center for OGI Certification (trained hundreds to date)
- ❖ Meeting the Oil and Gas Industry demands for expanded Optical Gas Imaging offerings
- ❖ Virtual Courses include:
  - ❖ Optical Gas Imaging Certification: Live Training via Zoom with Full Certification
  - ❖ OGI Fundamentals: 3-hour course with Certificate of Completion with Feedback from EPA and Industry
  - ❖ QOGI Training: Introduction to QOGI and QL320 Operation





The World's **Sixth Sense**®