RANDOLPH COUNTY EMERGENCY SERVICES UAV PROGRAM



PROGRAM HISTORY

- July 2017 County Commissioner's budgeted \$15,000 for UAV Program
- July-September Researched platforms, needs assessments, etc.
- October 2017 Purchased UAV, first staff certified, began training on platform
- December 4, 2017 First mission



UAV PLATFORM AND PAYLOAD

- DJI Matrice 210
- Zenmuse XT (thermal camera)
- Z30 (30x optical zoom camera)
- DJI Crystalsky monitor
- \$22,960 Investment





TRAINING

- Teaching staff how to operate the drone
- Develop pre-flight, in-flight, post flight checklist
- Scenario based training (tower inspections, SAR, live burns, etc)
- Putting it all together

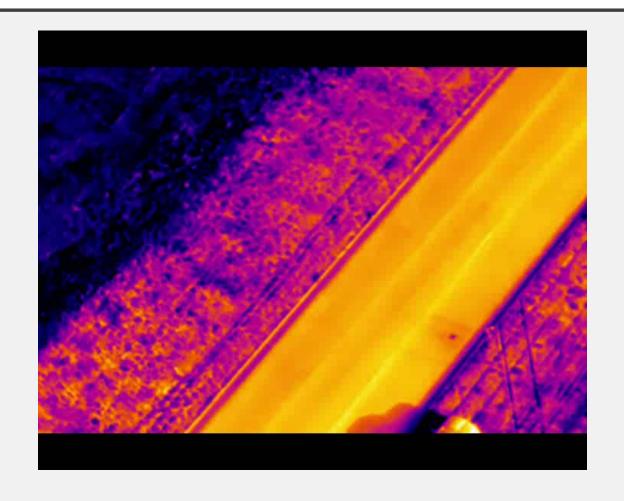


TOWER TRAINING



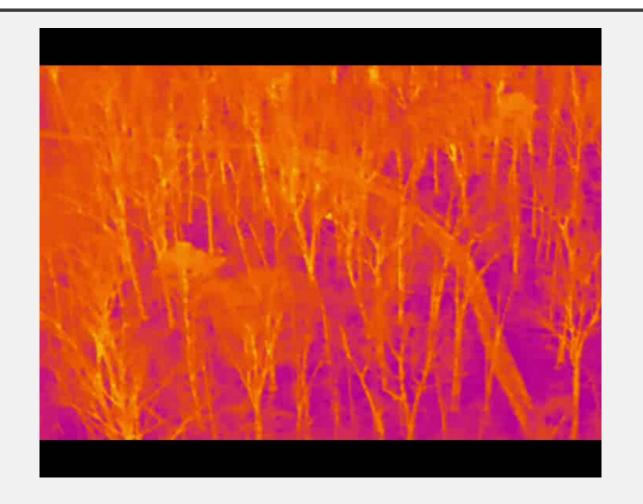


THERMAL TRAINING





MISSION







RANDOLPH COUNTY SHERIFF'S OFFICE DRONE PROGRAM



RCSO DRONE PROGRAM





- Drone is a DJI Phantom 3 Professional.

- Started testing the drone program in early Sept of 17.

- Nov 5th 17 SAR Mission for missing dementia patient.

- Nov 6th went public with drone program after finding missing dementia patient.

- We fly under the FAA part 107 provisions.

WHAT ITS USED FOR



- Main goal is to protect our citizens, solve cases and fight crime from above.

- Search for suspects who have escaped custody or committed a crime.

- Crime scene photography/Videography.

- Tactical missions.

- Search for contraband.

- Helping other agencies .

RCSO SAR MISSION 11/5/2017



SAR MISSION DEBRIEF



RCSO was the FIRST in North Carolina and the third in the country to successfully find a missing person with a drone, according to NCGAT at NC State University.

- Great communication between the deputies on the ground and the PIC, Adam Krolfifer.

- Quick mission, only 25 min from launch to locate.

- What we could have done better?
- I- Should have called out a visual observer.
- 2- Should have started a grid pattern search.

FUTURE OF PROGRAM



- More education for our citizens.
- Obtaining a COA (Certificate of Authorization).
- Educating our staff about what the program can and cannot do.
- Training new pilots and visual observers.
- Keep interest in the program both in the public and interoffice.
- More missions under our belt

- Work with other agencies to better our program.