Practical Application of UAV's for Fire

Innovative Case Studies for UAV Applications



David Herries, General Manager UAV Team: Chris Auchlin, Chris Scoggins, Robin Hartley

Application of UAV's in Fire Management

Thermal (infrared) camera's mounted on UAV's and smartphones / tablets

Fire Monitoring Hot Spot Detection

Acknowledgement to Timberlands for Facilitating this Implementation





UAV Equipment



CJI

Handheld Equipment

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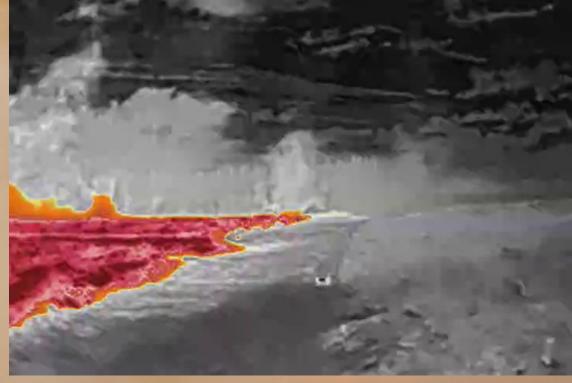
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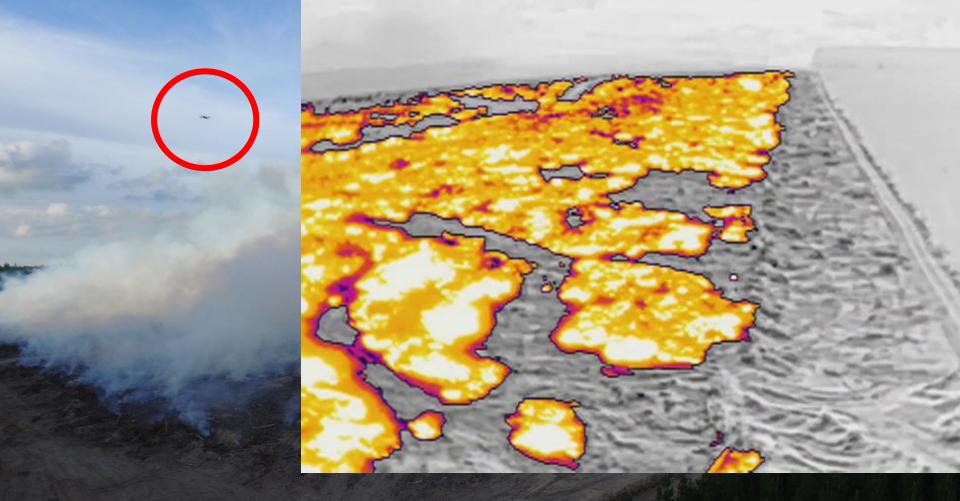












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Normal Helicopter Operator View

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Updated Post Fire Maps Onsite





Mop up

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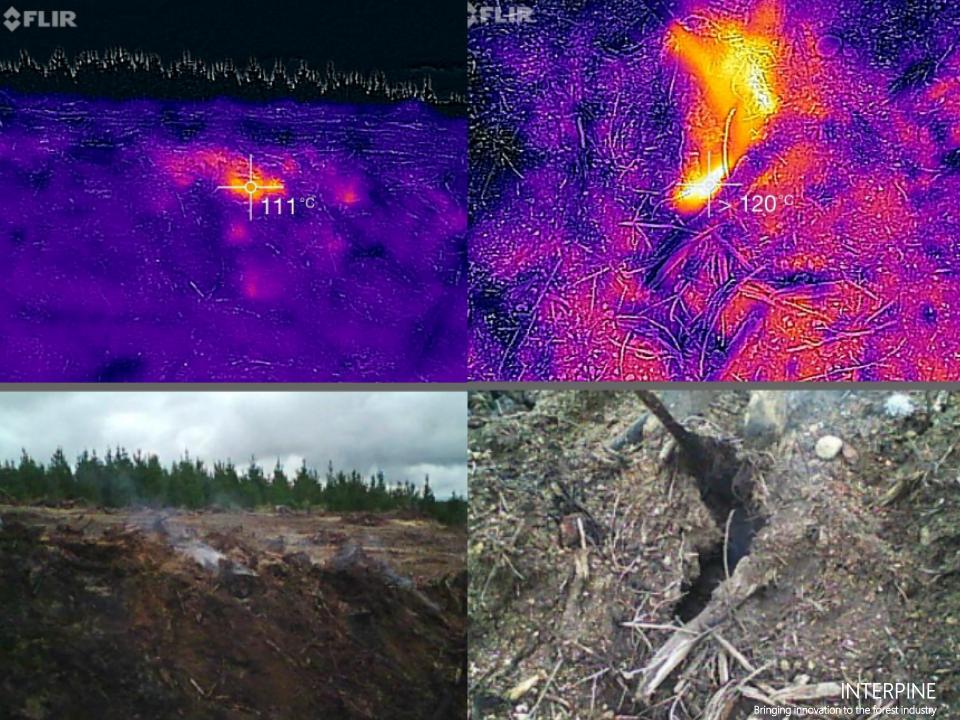


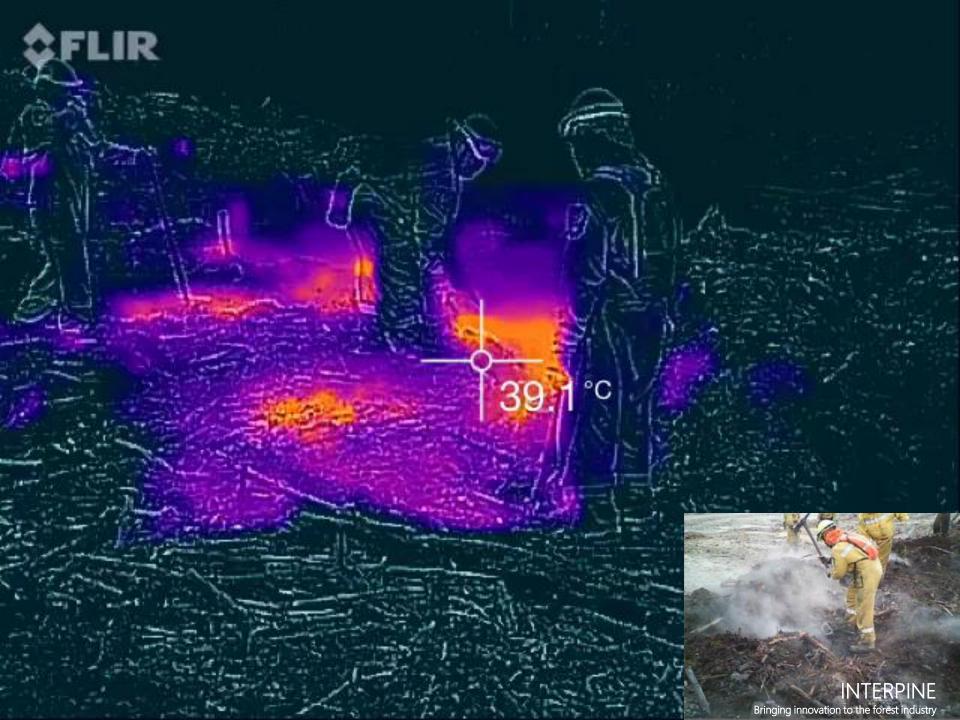
Mop up

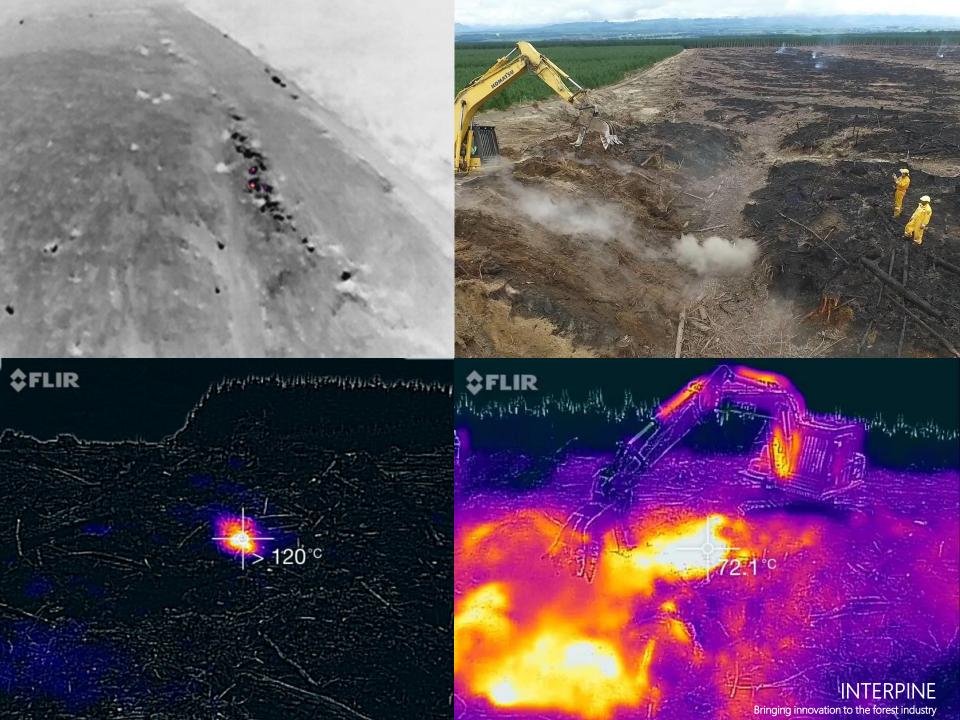












Area: 78.54 hect Distance: 13.20 km Connected

Max Speed: 15

Duration: 15n Batteries:

0

r M1

C 10 1290

Images: 164 Find Size: Medium 22 Find Temp: Mammal 4 Thermal Camera Applications Example Automated Flight for Heat Detection

3000000

Range: 547m @ 119* -100% 65% 100% 0 100% 10%

Twin Lakes

Horseshoe Lake

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0.7 km

59.9 m

01:28

14:36

15.0 m/s

Altitude AGL:

Images:

Detections: Inspections: Flight Time:

Remaining Time

Thermal Camera Applications Pest Management ?

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Bringing innovation to the forest industry (images on this slide are from Landcare Research)



Thermal Camera Applications Search and Rescue ?

Questions ? And Next Steps Talk to Our UAV Team for Deployment Throughout NZ

Interpine UAV Staff are: International ITC Level 1 Thermography Certification CAA Certified UAV Multi-Rotor Pilots NZQA Qualified Rural Fire Vegetation Firefighters

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MORE INFORMATION

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