



FORENSIC SERVICES

Courtroom proven in a number of different cases over the last eighteen months our in-house developed tools and extensive capabilities are now available to the wider legal fraternity to assist you in delivering comprehensive evidence through both our unique UAV (Drone based) Forensic Crime Scene Analysis and Video & Image Enhancement services.

In association with DroneMate Limited.

0508 376 637
www.precisiondatatechnology.co.nz



UAV Forensic

SERVICES



Crime Scene 3D Modelling

Using DroneMate's expert data acquisition techniques combined with the processing power and analytics of Precision Data Technology we bring the crime scene into the courtroom.

Eliminate confusion between all parties and focus on the facts using our globally accurate 3D models to navigate the crime scene. There are a number of different evidence based demonstrations you can provide using the 3D models and some examples of these are :

- Line of sight demonstrations.
- Verify locations of items in the evidence field.
- Precision distance and travel time measurements.
- Freely move through the crime scene in 3D space.
- Preserve the necessary details for investigation and trial.

360° Panorama Viewer VR

Drones have the ability to cover large distances and capture 360° images quickly and easily. Use a browser based platform or VR headset to seamlessly view and zoom into areas of the crime scene using the drone's high resolution imagery. This can be helpful to see perspectives from vantage points that are difficult to access in the real world. These different perspectives can give further valuable information on the course of events in a crime scene to inform investigators' theories.

UAV Metadata Analysis

If there is a UAV or UAV based evidence involved in a criminal investigation we can verify the UAV metadata to build a picture of the events that happened during the UAVs flight. By extracting the flight logs we can determine the UAVs position and height at any time interval. We can also verify if the UAVs camera was in use and the orientation during the flight. Other key information such as launching, waypoint logs and GPS available or unavailable during flight can also be analysed.



Video and Image Enhancement

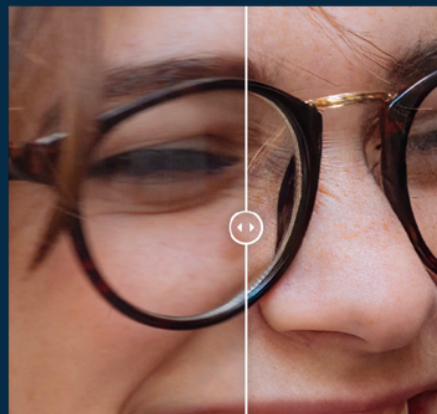
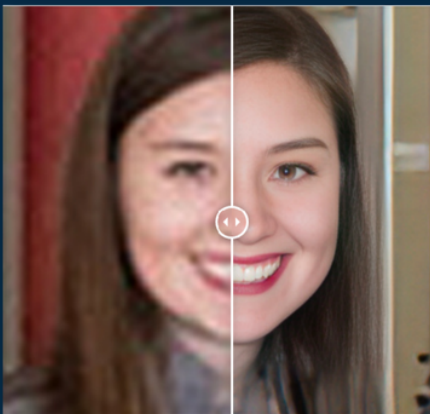
SERVICES



AI Powered Enhancements

Blurry, jittery and noisy footage/imagery can be run through our 3 step clean up process. By analysing the full scene at a pixel level, our software has the ability to retrieve missing detail and tidy up areas that lack viewable quality. We've seen impressive results running CCTV footage through our processes.

- Convert SD to HD or HD to 4k with stunning improvements in video quality.
- Remove visible image noise while preserving details to clean up your video.
- Naturally increase perceived sharpness in your video without adding artifacts.



Subject Tracking

Through video keyframing we can offer the service of tracking subjects through multiple camera angles. This is a powerful tool especially if there are crowds in scene where the subject may become difficult to see. It can be a clunky and tedious process scrubbing through hours of CCTV files and keeping a record of timestamps. We can build a sequence which contains only the footage you require whilst at the same time zooming into, following or highlighting subjects of interest.



FURTHER INFORMATION

Further more detailed information on the services we provide and how we can help you utilise them to their maximum potential in the legal environment is available by viewing our UAV Crime Scene Analysis and Video & Image Enhancement Service video demonstration at:

<https://youtu.be/3YEZ8GnuAGs>

or alternatively contact :

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ABOUT US

Originally part of sister company DroneMate; New Zealand's oldest drone operation, Precision Data Technology has been created to focus on and provide custom solutions and end-user products to a large number of different industries and applications utilising the increasingly wide scope of data primarily being acquired aurally.

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