

ORIGINAL UNCOMPRESSED IMAGE

SEETRUE CORRECTED IMAGE



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SEETRUE Algorithm

What is SeeTrue

Our revolutionary SeeTrue algorithm enables users to see clearly through fog, haze, mist, rain and smoke by handling live video images and displaying a visibility-enhanced live view of the actual scene. It does this without IR projection.

SeeTrue algorithm integrates with camera systems and strips off the unwanted weather-affected layers down to raw footage with no loss of resolution.

Why Choose Us

- 
All our system installations are carried out to strict standards by **Certified Auto Electricians** preserving manufacturer warranties.
- 
 All our systems are **fully approved and compliant** with FORS, CLOCS, Crossrail, RHA, Fitas Patrons, FTA and Crown Commercial Services.
- 
Customer service & support are a **top priority** for us. Get in touch to speak to one of our experts today.



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Fully Approved & Compliant with:



ABOUT SEETRUE

Unlike other systems that rely heavily on optical component-based laser and infrared or thermal technology, SeeTrue uses an algorithm-based software that seamlessly integrates with the camera system, it can also work as a post processing unit. SeeTrue can either be embedded to new cameras or added server side/ as an in-line filter to existing cameras.

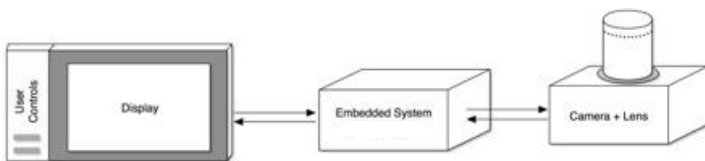


Key advantages of SeeTrue:

- ✔ SeeTrue technology can seamlessly integrate with virtually any kind of camera-based optical system.
- ✔ SeeTrue does not require specialised optical solutions (i.e. works with standard, visible-range cameras and glass optics).
- ✔ SeeTrue is capable of further visibility enhancement than the existing optical methods utilised for seeing through fog, haze, smoke, etc.
- ✔ SeeTrue technology optimises visual information in raw video data and provides best results when applied to uncompressed footage. It also works with compressed imagery.
- ✔ SeeTrue can significantly extend the visibility range in video and images - sharpness, contrast and colour of scene objects are recovered.
- ✔ Works in real time up to HD 720p/1080p/4k resolutions.

How SeeTrue Works:

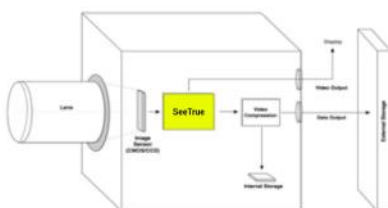
Option 1



Blueprint of real-time multi-component system based on SeeTrue technology

The system consists of three components, a camera + lens combination that gets the optical view of the relevant scene and feeds live image data towards a processing unit (an embedded system), where the data is processed by SeeTrue and finally a screen with processed live view displayed.

Option 2



Blueprint of a stand-alone camera with built-in SeeTrue real-time processing

The recorded image data is on-chip processed within the camera and afterwards compressed and stored in internal and external storages and optionally transmitted for a live display output.

SEETRUE VS LASER/INFRARED & THERMAL CAMERAS

1. Image clarity and definition

The very nature of laser/infra-red and thermal processing limits the image resolution, making images to appear blurry when scaled, image colour is also lost. SeeTrue eliminates this problem by applying the algorithm directly to camera systems without the need for extra processing with zero loss of resolution. This method dramatically increases visibility regardless of weather conditions.



Images showing pre and post SeeTrue processing with image enhancement

2. Wide-view vision and no extra calibration

Lasers work by focusing their beam and optics into a very small field of view. No wide view of a scene can be recorded in this way, making this type of technology unsuitable for most applications. In addition, the timing between laser pulse and aperture must be adjusted each time the distance is changed to preserve accuracy. This often requires special optical and mechanical solutions in place that can be quite costly.

The SeeTrue algorithm integrates with camera systems by stripping off the unwanted weather-affected layers down to raw footage. This method retains original field of view as well as eliminates the need for laser recalibration each time distance is changed – dramatically simplifying the process - saving time and cost.



Image produced by laser, IR and thermal cameras - poor resolution and limited field of view.

Applications of SeeTrue:



Security

CCTV, surveillance, border checkpoint scans, transportation



Aviation

ATC - Air traffic control towers



Transport

Passenger and cargo ships, trucks, trains, traffic cameras, self-driving technology



Fire-fighting, Search and Rescue

Fire vehicles, portable units or appliances



Marine

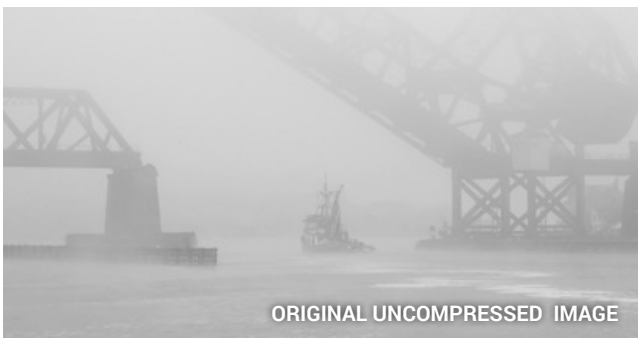
Ports, ships, fishing vessels, yachts

SEETRUE IN ACTION

Smog and dust - Original vs. SeeTrue



Marine haze and fog - Original vs. SeeTrue



Proud to be working with:



BOOK YOUR FREE DEMO:
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