

ClearID®

Forensic Image Clarification & Analysis

The ideal solution for any investigator • Clarification Filters and Workflows for Video, Images, Latent Prints

Regardless of where the images originate, be it proprietary CCTV digital video, analog video, camera stills, or scanned images, ClearID is where you can process them to unlock your hidden evidence.

ClearID is a suite of custom designed image clarification filters organized in a tabbed workflow interface that guides you through the image clarification process in a forensically sound and repeatable process. ClearID integrates Photoshop functions along with the expanded palette of ClearID clarification filters into the ClearID workflow. Each filter provides a realtime color preview and easy-to-use slider bars so you can quickly discover the optimal settings for clarifying your image evidence.

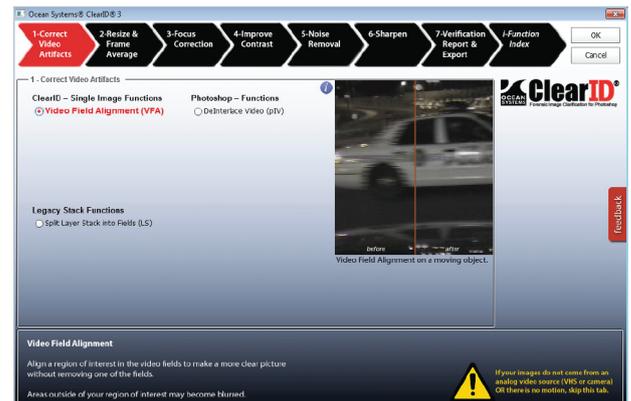
Once a filter is applied, ClearID automatically applies a SHA-1 hash value and documents your settings which can later be viewed in a Verification Report. With this report and your original evidence, your work can be easily reproduced for peer review or court room presentation.

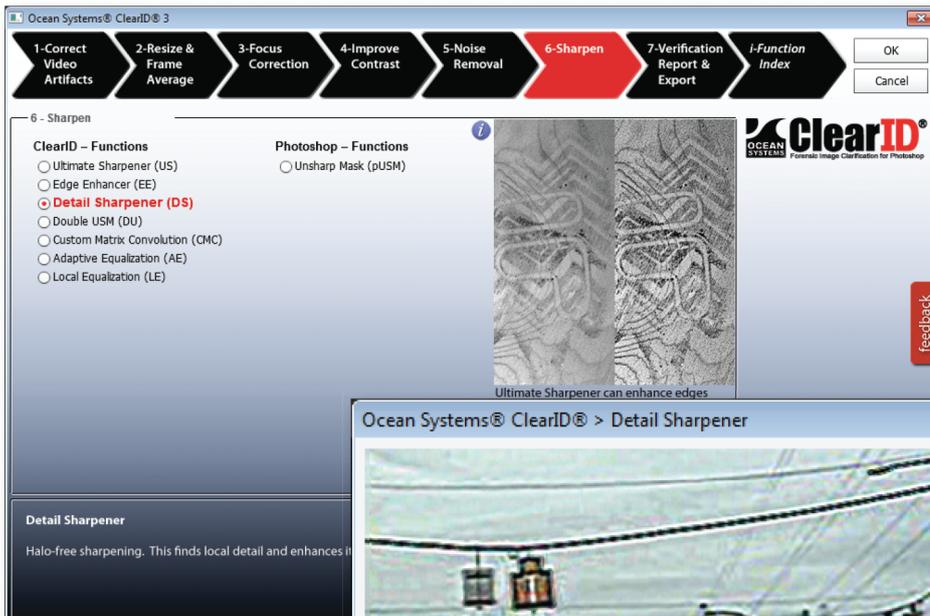
Clarified Compressed DVR Video

Interactive Deblur: Clarify out-of-focus Images



ClearID Workflow Interface





Each tab lists both ClearID and Photoshop functions

ClearID “Detail Sharpener” filter



Each tab has two columns of filters. On the right under Photoshop functions ClearID displays the Photoshop filters that are relevant for this stage of image clarification. On the left under ClearID function you see the expanded set of ClearID filters. Regardless of which filter you use from each tab, ClearID will document your settings to be included in the Verification Report.

ClearID Filter Overview

The screen in the forefront shows the “Detail Sharpener” filter as an example. Each filter has the following core functionality:

- Realtime color preview window with zoom in/out and panning.
- Easy-to-use adjustment controls.
- Preview on/off that allows for realtime preview of settings adjustments. Turn off preview to compare your settings to the original image.

Example of ClearID Verification Report

Ocean Systems® ClearID® Verification Report

Expand

Collapse

▼ Photoshop® Document Info:

Location = /c:/work/Case Files

Name = case-060814.psd

Type = RGB Color, 16 bits-per-channel

Dimensions = (387 x 387) pixels



▼ System Info:

Report Generated On: Mon Jun 08 2015 22:25:01 GMT-0400

ClearID® Version: 3.0.0

Photoshop® Version: CC (14.2.1)

Operating System: Windows 7/64 6.1 Service Pack 1

▼ Layer: CID DS:NR 5 CT 115 DE 110 #5DD9B0# v3.0.0/CC

SHA1 = 293E5F73951D8F6E3D1B20B40C3381E7FF5DD9B0 (image+alpha)

--> ClearID®: Detail Sharpener [Tab 6]

Photoshop® Layer Properties: Visible, Normal, Graphic Layer, Opacity 100%, Offset (H: 0, V: 0)

▼ Layer: Layer 1

SHA1 = 09642F3E3740B9399743478079051EDDB65C6C74 (image+alpha)

Non-ClearID® Layer

Photoshop® Layer Properties: Visible, Normal, Graphic Layer, Opacity 100%, Offset (H: 0, V: 0)

▼ Layer: Layer 0

SHA1 = 087C374EFA9806BEFEE1A0BFF7662342AB3A7BDB (image+alpha)

Non-ClearID® Layer

Photoshop® Layer Properties: Visible, Normal, Graphic Layer, Opacity 100%, Offset (H: 0, V: 0)

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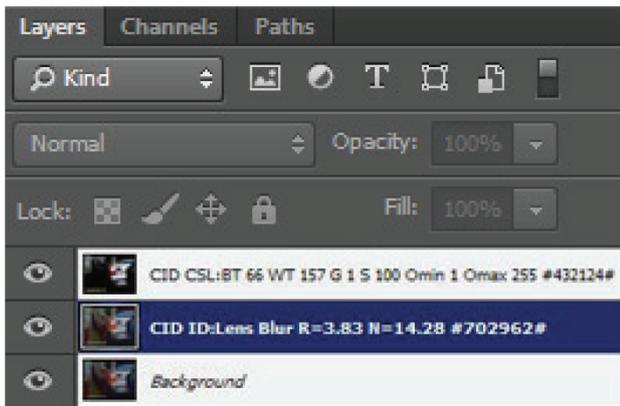
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How ClearID Works

ClearID forensic image clarification filters are accessed from the Photoshop "Filters" menu where you can launch the ClearID workflow interface that will document your work. Once you have your desired settings, apply the filter and ClearID will record the settings in the new layer. Adding the filters as a new layer ensures a non-destructive workflow.



The blue highlighted layer above shows the ClearID "Interactive Lens DeBlur" filter with the settings and a summary of the hash value #702962# that was calculated when it was applied.

Minimum Requirements

- Adobe Photoshop CS4 or later
- Windows 10, 8, 7, Windows XP
- 2GB RAM

Additional ClearID Examples

Pattern Remover, Ultimate Sharpener and Color Safe Curves

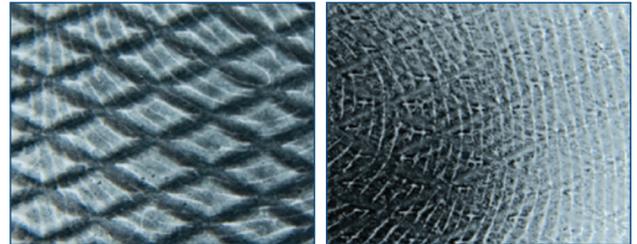
Multiple ClearID filters applied to a single image



ATM footage

Pattern Remover

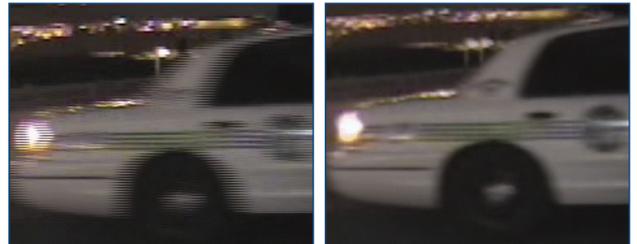
Removes Background Clutter



Fingerprint on paper towel

Video Field Alignment

Clarify Interlaced Images



Police cruiser in motion