Filmworkz
Create Incredible

DVO
DRY CLEAN
USER GUIDE

WHAT DOES IT DO?

DVO Dry Clean is a sophisticated software tool specifically designed for concealing various imperfections in video footage, such as **dust, dirt and film blemishes**. It provides advanced capabilities to effectively remove or reduce these unwanted elements, **enhancing the overall visual quality** of the content.

DVO Dry Clean supports *integer* and *floating-point* sources.

HOW DO YOU USE IT?

DVO Dry Clean works on the following platforms:

It's also coming soon to:
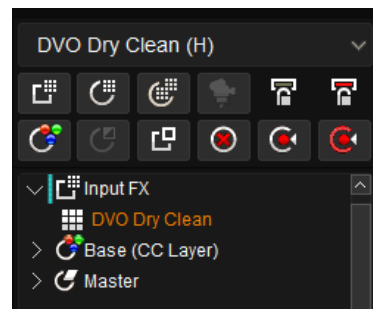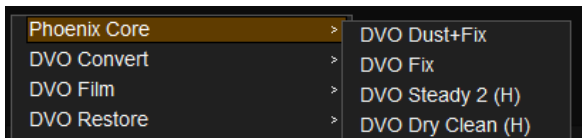
PHOENIX   **NUCODA**   **LOKI**

If you're already a Filmworkz veteran, you can jump right in and use **DVO Dry Clean**, however if you need some help getting going, check out these QuickStart Guides:
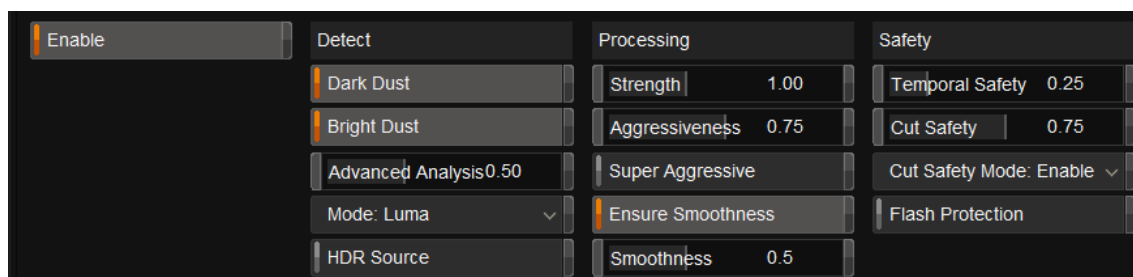
PHOENIX QUICKSTART GUIDE   NUCODA QUICKSTART GUIDE

GETTING STARTED

1. Launch your platform on your workstation.

2. Locate the toolbar, (positioned on the left-hand side of the interface)

Phoenix Core	>	DVO Dust+Fix
DVO Convert	>	DVO Fix
DVO Film	>	DVO Steady 2 (H)
DVO Restore	>	DVO Dry Clean (H)

3. Scan the toolbar options until you find the **DVO Dry Clean** tool.

DVO Dry Clean (H)

Input FX
    DVO Dry Clean
  Base (CC Layer)
  Master

4. Click on it and the control panel under appears

Enable	Detect		Processing		Safety	
	Dark Dust		Strength	1.00	Temporal Safety	0.25
	Bright Dust		Aggressiveness	0.75	Cut Safety	0.75
	Advanced Analysis	0.50	Super Aggressive		Cut Safety Mode: Enable ∨	
	Mode: Luma	∨	Ensure Smoothness		Flash Protection	
	HDR Source		Smoothness	0.5		

CONTROL PANEL EXPLAINED

DETECT

Dark Dust	
Bright Dust	

The basic detection settings select whether to locate *Dark* and/or *Bright* objects in the film.

DARK DUST

This will search for dark dust speckles and blotches. In RGB mode (see below) it will look for issues with an RGB *negative offset*.

BRIGHT DUST

This will search for light dust speckles and blotches. In RGB mode (see below) it will look for issues with an RGB *positive offset*.

ADVANCED ANALYSIS
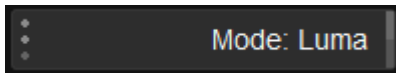
Advanced Analysis 0.50
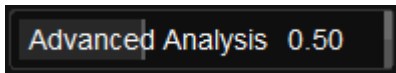
This sets a level of how much extra analysis will be performed after a detection.

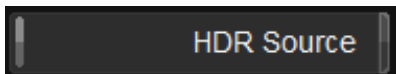It'll do a thorough search around the hit and try and find soft edges or thin scratches.

Higher values will take longer and increase the risk of false positives.

MODE

Mode: Luma

- **Luma:** Do the analysis in lumince mode
- **RGB:** Do the analysis in RGB mode (RGB mode is slower than Luma)

HDR

HDR Source

High Dynamic Range (HDR) processing can be enabled using the *HDR Source* button.

This is only valid when the tool is using an OpenEXR source and in float processing mode.

PROCESSING

STRENGTH

| Strength | 1.00 |

The Strength parameter sets the overall cleaning threshold. Good results should be achieved using processing values between 0 - 1.

A value of 1.0 uses a simplified estimation of the clip noise/grain level. For values above 1.0, *Dry Clean* can further process the media to brush off grain or noise.

Range: 0.00 - 2.00

Default: 1.0

AGGRESSIVENESS

| Aggressiveness | 0.75 |

Aggressiveness sets how far and how strongly *Dry Clean* will attempt to conceal problematic areas and consider the risks involved with complex material.

Range: 0.00 - 1.00

Default: 0.75

SUPER AGGRESSIVE

| Super Aggressive |

This will force the processing of detected dust even if considered unsafe. This limits many of the safety algorithms.

ENSURE SMOOTHNESS

| Ensure Smoothness |

When enabled, *Smoothness* will smooth harsh edges that might appear as a result of the concealment process.

SMOOTHNESS AMOUNT

| Smoothness Amount | 0.500 |

This defines how much the *Smoothness* will affect a harsh edge within the concealment.

Range: 0.00 - 1.00

Default: 0.500

SAFETY

TEMPORAL SAFETY
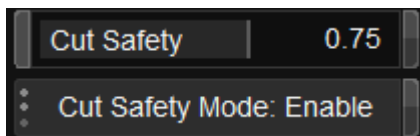
| Temporal Safety | 0.25 |
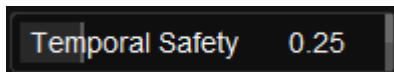
Temporal Safety will prevent false positives where unexpected objects appear or disappear from the image.

Range: 0.00 - 1.00

Default: 0.25

CUT SAFETY

| Cut Safety | 0.75 |
| Cut Safety Mode: Enable | |

Cut Safety will reduce false positives around *scene cuts* by increasing the safety algorithms on the nearby frames.

The *Mode* option lets you choose to enable or disable this safety setting or decide to not process the frame nearest the scene cut.
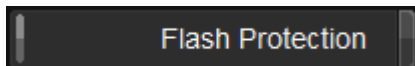
Range: 0.00 - 1.00

Default: 0.75

The *Mode* settings are:

- **Disabled:** Normal processing at scene cuts
- **Enabled:** Cut safety Enabled (**Default)**
- **Bypass:** The first and last frame of scene will not be processed.

FLASH PROTECTION

| Flash Protection |

Default: Disabled

Turn off processing if a flash frame is detected.

Examples include camera flashes in news reels or VFX shots that globally alter the luminance level for single frames.

WANNA KNOW
MORE?

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