

IMAGE ANALYST v3.20

USER GUIDE

LUMATICLAB | OFFLINE | REFERENCE EDITION

Purpose and safe interpretation

Image Analyst v3.20 is a read-only image diagnostic and tonal “what-if” utility. Image analysis uses a preview no longer than 1200 pixels on its longest side; results are not full-resolution forensic tests.

Findings are screening signals. They may be false positives or false negatives; use the full-size original to confirm.

Load an image

1. Click Open image or Load [L], or drop a supported image onto the workspace.
2. JPEG, PNG and WebP are supported. Maximum stated input is 32 megapixels and 32 MiB. RAW and animated formats are unsupported.
3. The bundled test card is displayed at startup and after Start over.

The top bar identifies the loaded image and current processing status. Original data is retained for the Original export.

Analysis mode versus analysis target

Choice	Function
Colour	RGB channel-oriented checks and colour histogram.
B&W	Luminance-oriented checks and monochrome display information.
Analyse: Source	Measure the untouched decoded source preview.
Analyse: Tonal Test	Measure the simulated tonal-preview result.

Choosing a Tonal Test display tab and choosing Analyse: Tonal Test are distinct operations. Check the analyse selector before exporting the report or tone map.

Diagnostics: viewing choices

View	What it shows / caveat
Clean	Image without diagnostic overlay.
RGB limits	Orange candidate markers for pixels reaching an RGB channel endpoint; not a colour gamut test.
Zebra	Indicators for near-white and near-black exits; not proof of lost scene detail.
Fringe	Candidate colour-edge artifacts; true subject colours can trigger warnings.

Banding	Candidate smooth-region step patterns; source structure and compression can trigger warnings.
Thirds	Rule-of-thirds composition grid; no finding generated.
Tone map	Seven-band luminance classification.
All markers	Combined screening markers with priority when regions overlap.

Marker intensity changes overlay strength. Screening sensitivity adjusts Fringe and Banding screening thresholds and can increase false positives.

Tonal Test and comparison

Tonal Test offers six simulated controls: Exposure, Highlights, Shadows, Whites, Blacks and Contrast. Changes are calculated again from the source preview rather than repeatedly applied to an already edited buffer.

Auto Test explores restricted tonal candidates. Reset tonal restores neutral values. Neither action creates an edited final photograph.

The curtain shows Source on the left and Test on the right. 0% gives full Test; 100% gives full Source. Show source [S] displays the source temporarily.

Slider scales are illustrative, not equivalent to ON1 Photo RAW values.

Measurements and Findings

Tab	Purpose
Histogram	Red, green, blue distributions in Colour mode; luminance in B&W.
Tone bands	Percentages across seven luminance ranges.
Markers	Overlay colour key and definitions.
Technical	Native/preview dimensions and technical measurement context.
Findings	Image-specific screening findings; access here rather than a permanent Assessment panel.

Measurements exclude non-opaque pixels. The checkerboard is for display only. A normal-looking histogram cannot guarantee an appropriate exposure.

Saving output

Output	Meaning
Tone map	PNG map at native image dimensions for the selected analysed state; transparency preserved.
Original	Unchanged bytes of the validated source image.
PDF report	Preview-based findings and diagnostic context for the selected analysed state.

Enter a Filename prefix before saving. The browser controls the downloaded files' destination. Do not mistake a tone map for a final edited image.

Keyboard shortcuts and help

Key	Action
L	Load image
Z	Zebra
S	Show source
E	PDF report
?	Open in-app Help
Escape	Close Help

Shortcuts are ignored while typing in editable fields or using sliders, as stated in the in-app guide.

Limitations and troubleshooting

- No RAW headroom measurement, International Color Consortium (ICC) conversion or proof of output gamut.
- No local masks, layers, lookup tables (LUTs), presets or full photographic edit export.
- If warnings look wrong, reduce sensitivity and compare with Clean at 100% in the original.
- If Tonal Test appears unchanged, check for neutral sliders, the curtain position and the analysis target.
- On compact displays, scroll within the relevant panel as necessary; avoid browser zoom that obscures controls.