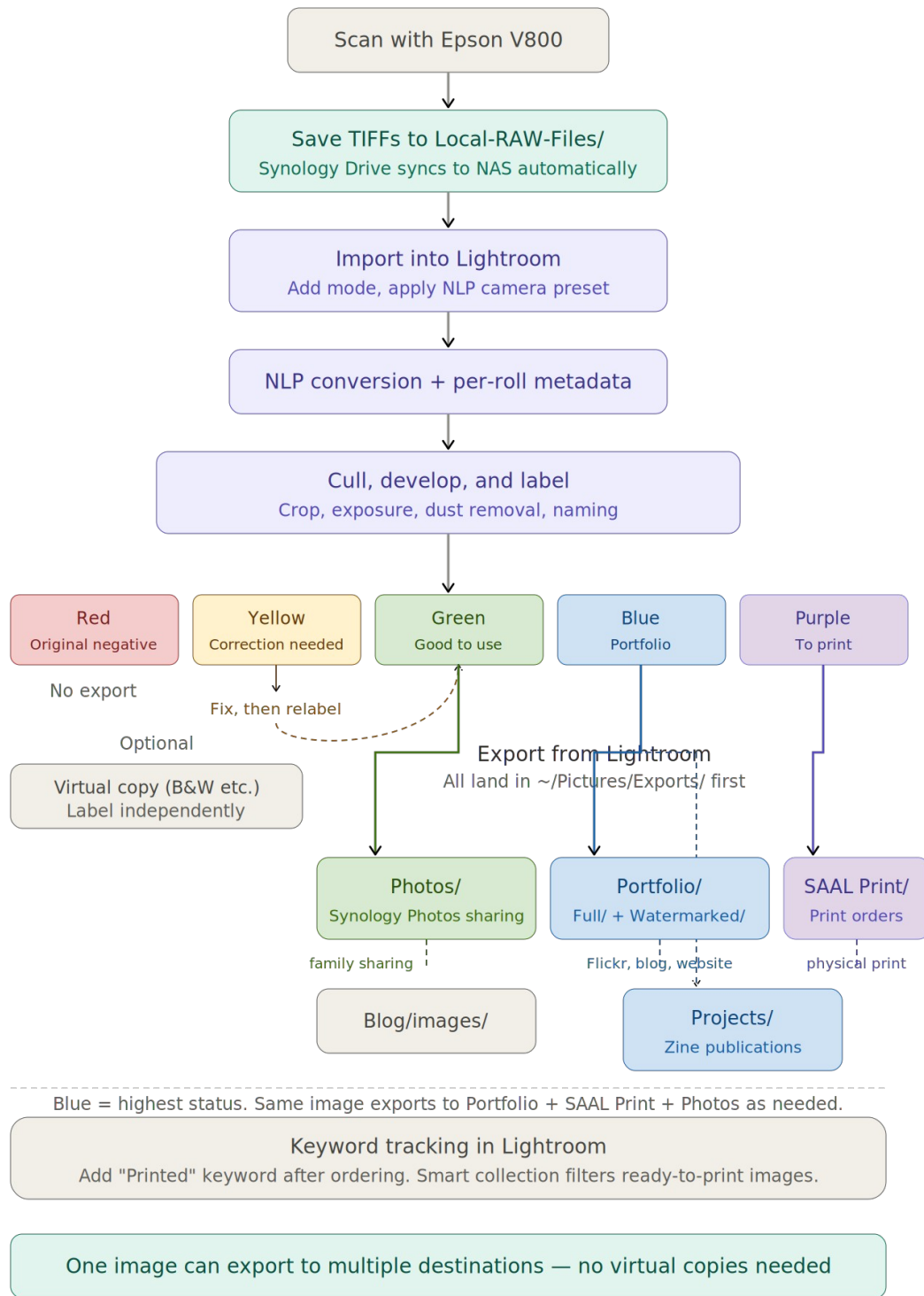


Lightroom Classic — Analog Film Workflow Cookbook

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A practical reference for the complete analog photography workflow: scanning, importing, converting, editing, labeling, exporting, and metadata management. All steps reference the confirmed Mac + Synology NAS architecture.

Environment: MacBook Air M5 / Lightroom Classic / Negative Lab Pro / Epson V800 / Synology NAS via Synology Drive



Lightroom analog film workflow: scan → label → export to multiple destinations

1. Scanning a New Roll

Setup

1. Mount film in Lomography 120 Film Mask (medium format) or 35mm holder
2. Open Epson Scan 2 on Mac

B&W scanning (saved preset: "Negative Scan B&W")

Setting	Value
Mode	Photo Mode
Document Type	B&W Negative Film
Image Type	16-bit Grayscale
Resolution	6400 DPI
Scanning Quality	High
Image Format	TIFF

Color scanning

Setting	Value
Mode	Photo Mode
Document Type	Color Negative Film
Resolution	4800 DPI
Scanning Quality	High
Image Format	TIFF

Advanced Settings — all OFF: Unsharp Mask, Color Restoration, Backlight Correction, Dust Removal, Grain Reduction, DIGITAL ICE Technology. NLP handles all corrections downstream — scanner corrections interfere with accurate NLP conversion.

File naming and saving

3. File Name: Pentacon Six TL R## ### (camera + roll + frame)
4. Folder: R##-LabNr (e.g., R44-9446)
5. Save TIFFs to: ~/Pictures/Local-RAW-Files/[Camera]/[Roll#-LabNr]/
Example: ~/Pictures/Local-RAW-Files/Pentacon Six TL/R44-9446/
6. Synology Drive syncs to NAS /Photography/RAW Files/ automatically in the background

Roll folder naming: R##-LabNr format (e.g., R37-0000). Roll number first — that's how you think and reference. Lab number preserved for cross-reference with the physical negative binder. Rename legacy lab-number-only folders gradually through Lightroom (right-click → Rename), not in bulk.

2. Importing into Lightroom

1. File → Import Photos and Video

2. Source: navigate to ~/Pictures/Local-RAW-Files/[Camera]/[Roll#-LabNr]/
3. Import type: **Add** (files are already in the right location — don't move or copy)
4. Right panel — Apply During Import:
 - Develop Settings: None
 - Metadata: select the appropriate NLP camera preset (see Section 8)
 - Keywords: add roll-specific keywords if desired
5. Click Import

No auto-adjustments on import. NLP needs the unmodified scan data for accurate conversion. Don't apply develop presets during import.

3. Negative Lab Pro Conversion

1. Select all images from the roll in Library or Develop module
2. Open NLP: File — Plug-in Extras — Negative Lab Pro
3. Set source: match your film type
 - B&W Negative for Ilford XP2 Super 400, FP4 Plus 125
 - Color Negative for Kodak Gold 200
4. Convert — NLP processes all selected images
5. Fine-tune individual images in NLP's editing panel if needed
6. Apply changes

After NLP conversion: The images are now positive. From this point, Lightroom's standard Develop module tools work normally — exposure, contrast, cropping, B&W treatment, etc.

4. Editing Workflow

First pass — cull and label

1. Switch to Library module — Loupe view (E key) or Survey view (N key)
2. Go through each frame. Apply color labels:

Label	Meaning	Keyboard shortcut
Red	Original negative — no export, reference only	6
Yellow	Correction needed — revisit later	7
Green	Good to use — candidate for sharing or projects	8
Blue	Portfolio — your best work	9

Purple (To Print) is applied later — requires creating a virtual copy, soft-proofing against SAAL's ICC profile for silk paper, and adjusting develop settings for print output.

3. Flag obvious rejects (X key) — don't delete yet, just flag

Second pass — develop

4. Switch to Develop module (D key)
5. Work through Green and Blue labeled images:
 - Crop and straighten
 - Exposure and contrast refinement
 - Local adjustments (masks, gradients) if needed
 - Sharpening: respect film grain — it's a feature, not a flaw
 - Dust spot removal: these are scanner artifacts, worth fixing

Grain vs dust: Grain and motion softness = authentic film characteristics, leave them. Dust spots = scanner artifacts, clean them up. Sharpness from difficult conditions = earned. Focus error = consider swapping frames if an alternative exists.

B&W conversions from color originals

6. If a color image works better in B&W (e.g., Sedona Kodak Gold CPL recovery shots):
 - Right-click — Create Virtual Copy
 - Apply B&W treatment on the virtual copy
 - The original keeps the color correction
 - Label the virtual copy independently (Blue if portfolio-worthy)

Naming

7. Select the image in Library module
 8. Metadata panel → Title field: enter the published title
Format: Title R##|###
Example: Clouds over Deep Time R35|013
 9. To rename the file: Library → Rename Photo (F2)
Use Lightroom's file rename template to match the title format
Example filename: Clouds over Deep Time R35-013.jpg
-

5. Color Label Workflow

Custom Color Label Set (must be configured on Mac):

Metadata → Color Label Set → Edit...

Red: Original Negative
Yellow: Correction Needed
Green: Good to Use
Blue: Portfolio
Purple: To Print

This custom set must match between machines. If labels show as grey, the set doesn't match.

Key principle: Labels are STATUS, not routing.

An image labeled Blue (portfolio) can be exported to Portfolio/, Photos/, Projects/, and Flickr.

Blue is the highest quality tier for screen/web use. Purple is specifically for print — a virtual copy of a Blue image, soft-proofed against SAAL Digital's ICC profile for silk paper, with develop settings adjusted for physical output.

Label hierarchy

Label	Status	Can export to
Red	Reference only — no export	—
Yellow	Needs work — fix, then relabel	—
Green	Good to use	Photos/ (family sharing), Blog/
Blue	Portfolio — best work (screen/web optimized)	Portfolio/, SAAL Print/ (when no proof adjustment needed), Photos/, Projects/, Blog/, Flickr
Purple	Print-ready — virtual copy with proof-adjusted develop settings for SAAL silk paper + ICC profile	SAAL Print/ (only when proof adjustment is needed)

Label lifecycle

Stage	Action
Import	All images start unlabeled
First cull	Apply Red (reference only), Yellow (needs work), Green (good)
After editing	Yellow → Green or Blue once corrected. Don't leave images yellow permanently.
Portfolio curation	Promote Green → Blue for your best work
Print selection	If image needs proof adjustment for silk paper: create virtual copy → soft-proof against SAAL ICC → adjust develop settings → label Purple. If image prints fine as-is: export directly from Blue original.

Tracking prints with keywords

Use keywords to track print history:

Keyword	When to apply
Printed	After ordering from SAAL Digital

Create two smart collections for workflow management:

Smart Collection	Rules
Portfolio Collection not Printed	See nested rule structure below
Printed	Keywords contains "printed"

Smart collection nested rules (using the # button):

Lightroom smart collections support nested rule groups via the # button. Click # to create a subset of rules with its own logic (All/Any/None of the following). This lets you combine AND/OR logic:

Portfolio Collection not Printed:

Match: **any** of the following rules:

- └─ **All** of the following are true:
 - └─ Keywords *doesn't contain* "printed"
- └─ **Any** of the following are true:
 - └─ Label Color is blue
 - └─ Label Color is purple

This catches all Blue and Purple images that haven't been printed yet — your entire best-work pool.

How these work together: "Portfolio Collection not Printed" shows both Blue originals and Purple virtual copies that haven't been printed yet. After ordering a print, add keyword Printed to whichever version was printed (Blue or Purple). It drops out of the first collection and appears in the second.

Export destinations by purpose

One image can go to multiple destinations. The label tells you what it is; you decide where it goes:

Destination (NAS)	Purpose	Typical label
Photography/ Portfolio/Full/	Full-res portfolio archive	Blue
Photography/ Portfolio/ Watermarked/	Flickr, web sharing	Blue
Photography/SAAL Print/[order name]/	Print orders	Blue (no adjustment needed) or Purple virtual copy (proof- adjusted)
Photos/YYYY-MM-DD	Family sharing via	Green or Blue

Destination (NAS)	Purpose	Typical label
Event Name/ Photography/ Projects/YYYY-MM- Title/	Synology Photos Zine publications	Blue (project-driven selection)
Blog/images/	Website blog posts	Green or Blue

Example: Your best Arizona shot is Blue. You export it to Portfolio/Full/, Portfolio/Watermarked/ (for Flickr), and Photos/2025-10 Arizona/ (for your wife). For a print: if it prints fine as-is, export the Blue original to SAAL Print/Grand Canyon/. If it needs adjustment for silk paper, create a virtual copy, soft-proof against SAAL's ICC profile, adjust develop settings, label it Purple, then export. Either way, add keyword "Printed" after ordering.

6. Exporting

Export presets to create

Preset 1: Portfolio Full-Res

Setting	Value
Export Location	~/Pictures/Exports/ (move to NAS after)
File Format	JPEG
Quality	100
Color Space	sRGB
Image Sizing	Don't resize
Sharpening	Screen, Standard
Watermarking	Off
File Naming	Custom Name - Original File Number or title-based template

Preset 2: Portfolio Watermarked

Same as Preset 1, except:

Setting	Value
Watermarking	On — select your watermark preset

Creating a watermark preset: Lightroom — Edit — Edit Watermarks. Design your watermark (text or graphic), save as a preset. It's then available in any export dialog under the Watermarking section.

Preset 3: SAAL Print

Use for both Blue originals (when no proof adjustment needed) and Purple virtual copies (when proof-adjusted):

Setting	Value
Export Location	~/Pictures/Exports/ (move to NAS after)
File Format	JPEG
Quality	100
Color Space	Match SAAL ICC profile (soft-proof in Develop before export)
Image Sizing	Don't resize
Sharpening	Matte or Glossy, Standard (match your paper — silk)
Watermarking	Off

Print proofing workflow (only when adjustment needed): Create a virtual copy, label it Purple. In Develop module: View → Soft Proofing → select SAAL Digital's ICC profile for silk paper. Adjust develop settings while soft-proofing is active. These adjustments stay on the virtual copy — the Blue original is untouched. If the image prints fine without adjustment, skip this step and export the Blue original directly.

Preset 4: Family/Trip Sharing

Setting	Value
Export Location	~/Pictures/Exports/ (move to NAS after)
File Format	JPEG
Quality	85-95 (balance of quality and file size)
Color Space	sRGB
Image Sizing	Resize to fit: Long Edge, 3000-4000px (sufficient for sharing)
Sharpening	Screen, Standard
Watermarking	Off

After export: move to NAS

All exports land in ~/Pictures/Exports/ first. Then move to the appropriate NAS destination via Finder → Connect to Server (smb://10.0.0.5/home/):

Export type	Move to
Portfolio full-res	Photography/Portfolio/Full/
Portfolio watermarked	Photography/Portfolio/Watermarked/

Export type	Move to
Print (Blue or Purple)	Photography/SAAL Print/[order topic]/ (e.g., Grand Canyon/, Zion/)
Family/trip sharing	Photos/YYYY-MM-DD Event Name/
Zine project	Photography/Projects/YYYY- MM-Title/
Blog images	Blog/images/

Filename convention for all exports: Title R##-###.jpg (e.g., Clouds over Deep Time R35-013.jpg). The title is the published name, the R##-### suffix traces back to the master TIFF. Consistent across all destinations.

7. Virtual Copies

When to create

Create a virtual copy when you want a genuinely different interpretation of the same master:

- B&W conversion of a color original
- **Print preparation (only when needed)** — virtual copy of a Blue image, soft-proofed against SAAL's ICC profile for silk paper. The Blue original stays screen-optimized, the Purple copy carries print-specific develop adjustments. If the image prints fine without adjustment, skip the virtual copy and export the Blue original directly.
- Significantly different crop (square vs landscape)
- Different tonal treatment for a specific publication

Right-click the image — Create Virtual Copy. The copy appears with a turned page icon in the filmstrip. Both reference the same master TIFF — zero disk space cost.

When to delete

Delete virtual copies that were scratch experiments. If you tested a crop or a preset and it didn't work — remove it. Virtual copies are free to create but clutter the catalog if left as orphans.

Labeling

Apply the same color label system to virtual copies. The original and the virtual copy can have different labels. If the B&W version is portfolio-worthy, label it Blue. If the color original is just a reference, label it Red. They're independent.

8. Negative Lab Pro Metadata Presets

Where to see NLP metadata in Lightroom: Library module – Metadata panel – change the dropdown at the top from "Default" to "**All Plug-in Metadata**". NLP fields are only visible in this view.

Presets don't survive Windows – Mac migration. Recreate them on Mac: Metadata panel – Preset dropdown – Edit Presets.

Create one preset per camera+lens combination. Apply per roll after import. Fill in film-specific fields per roll.

Pentacon Six TL – Biometar 80

Field	Value
Camera Make	VEB Pentacon Dresden
Camera Model	Pentacon Six TL
Lens Make	Carl Zeiss Jena
Lens Model	Biometar 80mm f/2.8
Focal Length	80mm
Film Format	6x6
Scan Method	Home Scan (or Lab Scan — per roll)
Scan Equipment	Epson V800
Film Holder	Lomography 120 Film Mask

Pentacon Six TL – Biometar 120

Field	Value
Camera Make	VEB Pentacon Dresden
Camera Model	Pentacon Six TL
Lens Make	Carl Zeiss Jena
Lens Model	Biometar 120mm f/2.8
Focal Length	120mm
Film Format	6x6
Scan Method	Home Scan
Scan Equipment	Epson V800
Film Holder	Lomography 120 Film Mask

Pentacon Six TL – MIR 38B

Field	Value
Camera Make	VEB Pentacon Dresden
Camera Model	Pentacon Six TL
Lens Make	Arsenal

Field	Value
Lens Model	MIR 38B 65mm f/3.5
Focal Length	65mm
Film Format	6x6
Scan Method	Home Scan
Scan Equipment	Epson V800
Film Holder	Lomography 120 Film Mask

Pentacon Six TL — Biometar 80 + Arsenal 2x Teleconverter

Field	Value
Camera Make	VEB Pentacon Dresden
Camera Model	Pentacon Six TL
Lens Make	Carl Zeiss Jena
Lens Model	Biometar 80mm f/2.8 + Arsenal 2x TC
Focal Length	160mm
Film Format	6x6
Scan Method	Home Scan
Scan Equipment	Epson V800
Film Holder	Lomography 120 Film Mask
Gear Notes	Arsenal 2x teleconverter

Pentacon Six TL — Biometar 120 + Arsenal 2x Teleconverter

Field	Value
Camera Make	VEB Pentacon Dresden
Camera Model	Pentacon Six TL
Lens Make	Carl Zeiss Jena
Lens Model	Biometar 120mm f/2.8 + Arsenal 2x TC
Focal Length	240mm
Film Format	6x6
Scan Method	Home Scan
Scan Equipment	Epson V800
Film Holder	Lomography 120 Film Mask
Gear Notes	Arsenal 2x teleconverter

Zeiss Ikon Ikonta 521/2

Field	Value
Camera Make	Zeiss Ikon
Camera Model	Ikonta 521/2

Field	Value
Lens Make	Carl Zeiss
Lens Model	Tessar 10.5cm f/4.5
Focal Length	105mm
Film Format	6x9
Scan Method	Home Scan
Scan Equipment	Epson V800
Film Holder	Lomography 120 Film Mask

Zeiss Ikon Contina Ila

Field	Value
Camera Make	Zeiss Ikon
Camera Model	Contina Ila
Lens Make	Zeiss
Lens Model	Novar Anastigmat 1:3.5 45mm
Focal Length	45mm
Film Format	35mm
Scan Method	Home Scan
Scan Equipment	Epson V800

Holga 120 GCFN

Field	Value
Camera Make	Holga
Camera Model	120 GCFN
Film Format	6x6
Scan Method	Home Scan
Scan Equipment	Epson V800
Film Holder	Lomography 120 Film Mask

Per-roll fields (fill in after applying camera preset)

Field	Common values
Film Stock	Ilford XP2 Super 400, Ilford FP4 Plus 125, Ilford HP5 Plus 400, Kodak Gold 200
Film ISO	400, 125, 400, 200
Shot at ISO	Same as Film ISO (unless pushed/pulled)
Scan Equipment	Epson V800 (home scans only)
Developed At	Lab name or Home

Field	Common values
Developer	Developer chemistry if known

9. Roll Folder Structure

Each roll folder under a camera contains masters and the contact sheet. No export subfolders.

```

Pentacon Six TL/
├── R37-0000/
│   ├── Pentacon Six R37 001-positive.tif
│   ├── Pentacon Six R37 002-positive.tif
│   ├── ...
│   ├── Pentacon Six R37 013-positive.tif
│   └── R37.pdf ← contact sheet
├── R38-0000/
└── ...

```

What goes where:

In the roll folder: Master TIFFs + contact sheet PDF. That's it.

NOT in the roll folder: JPEG exports. Those go to their destinations (Portfolio/, Projects/, SAAL Print/, Photos/).

10. Complete Roll Processing Checklist

End-to-end from receiving scans to final exports:

1. **Scan** (or receive lab scans)
2. **Save TIFFs** to ~/Pictures/Local-RAW-Files/[Camera]/R##-LabNr/
3. **Save contact sheet PDF** alongside the TIFFs as R##.pdf
4. **Import** into Lightroom (Add, no develop settings, apply NLP camera preset)
5. **Apply NLP per-roll metadata:** Film Stock, Film ISO, Scan Equipment
6. **NLP convert** — select all, run Negative Lab Pro
7. **First cull** — apply color labels (Red/Yellow/Green)
8. **Develop** — edit Green and Blue candidates
9. **Title** — add Lightroom titles in Title R##|### format
10. **Promote** — Green → Blue for portfolio picks
11. **Virtual copies** — create for B&W conversions or alternative treatments, label independently
12. **Export** — one image, multiple destinations as needed:
 - Blue → Portfolio/Full/ + Portfolio/Watermarked/
 - Purple virtual copy (proof-adjusted) or Blue original (if no adjustment needed) → SAAL Print/[order topic]/
 - Green or Blue (trip photos) → Photos/YYYY-MM-DD Event Name/

- Zine curation — Projects/YYYY-MM-Title/
- Blog — Blog/images/

13. **Move exports** from ~/Pictures/Exports/ to NAS destinations
 14. **Upload** watermarked to Flickr if desired
 15. **Track prints** — add "Printed" keyword to the Purple virtual copy after ordering from SAAL
 16. **Clean up** — delete scratch virtual copies, change Yellow → Green/Blue once fixed
-

Quick Reference: File Paths

What	Mac path	NAS path
Lightroom catalog	~/Pictures/ Lightroom/Catalog/	Backed up to /Photography/Light room Backup/
RAW Files (masters)	~/Pictures/Local- RAW-Files/	/Photography/RAW Files/
Export staging	~/Pictures/ Exports/	— (local only, temp)
Portfolio	—	/Photography/ Portfolio/Full/ + Watermarked/
SAAL Print	—	/Photography/SAAL Print/[order topic]/
Projects (zines)	—	/Photography/ Projects/
Family sharing	—	Photos/YYYY-MM-DD Event Name/
Blog images	—	Blog/images/

Quick Reference: Keyboard Shortcuts

Action	Shortcut
Library module	G (grid) / E (loupe)
Develop module	D
Survey view	N
Flag as Pick	P
Flag as Reject	X
Red label	6
Yellow label	7
Green label	8
Blue label	9

Action	Shortcut
Purple label	No default shortcut — apply via right-click or Metadata menu
Remove label	Press same number again
Rename photo	F2
Create virtual copy	⌘' (Cmd + apostrophe)
Export	⌘ ↑ E (Cmd + Shift + E)

Future Considerations

Legacy scanned slides (~5000 images)

Approximately 5000 color slides from the 1970s onward have been scanned on the Epson V800 and currently live in Photos/ on the NAS (Synology Photos personal space). These span multiple cameras across decades:

- Kodak Instamatic
- Voigtländer (with Color-Skopar f/2.8 lens)
- Praktica MTL3 / Revueflex (rebranded) with f/2.0 multicoated lens
- Pentax MZ 50 (standard zoom ~30-80mm, Tokina ~210mm telephoto, plus the Praktica lens)

Decision: Keep legacy slides separate from the analog workflow.

These stay in Photos/ under Synology Photos — not in Photography/. Goal is to correct and share via Synology Photos, not to manage them in the Lightroom analog workflow catalog.

Approach: Create a **separate Lightroom catalog** for legacy slide work. Access slides via SMB mount (`smb://10.0.0.5/home/Photos/`). Import images needing correction into the legacy catalog, edit, export corrected versions back to the same Photos/ location. Synology Photos picks up changes automatically. No need to manage all 5000 in Lightroom — only the ones that need work. Photos stay in their existing YYYY-MM event folder structure.

Keyboard shortcuts shown are Lightroom Classic defaults for macOS. Verify in Lightroom — Keyboard Shortcuts if any differ on your installation.

Companion document to the Storage Architecture plan. April 2026.