

Cosmic Throttle Astrophotography

Professional print-size and file-use guide

COSMIC THROTTLE • ASTROPHOTOGRAPHY PROOF SET

Natural print direction • real Pixel 9 DNG photographs • non-generative refinement



1 MOUNTAIN ARC

Elegant horizon • strongest phone / desktop candidate



2 ALPINE SIGNAL

Diagonal Milky Way • strongest website hero candidate



3 WIDE SIGNAL

Tall sky and treeline • versatile wallpaper / print



4 MILKY WAY CORE

Space-forward composition • strongest pure-sky option

Approval Gate 1 • Select the direction and any images to exclude before final format production

Four authentic Pixel 9 night-sky photographs, processed from Lightroom RAW edits and finished with non-generative chroma-noise reduction and restrained output sharpening. Star and terrain geometry remain photographic.

Print size recommendations

The source capture is 4064 x 3056 pixels (4:3). Print quality depends on viewing distance, paper, lab equipment, and sharpening. The sizes below are conservative working targets.

Finished size	Effective source PPI	Recommended use
13.5 x 10.2 in	300	Maximum close-detail quality
16 x 12 in	254	Excellent close and framed viewing
20 x 15 in	203	Very good normal wall viewing
24 x 18 in	169	Good large wall art; use Enhanced file
27 x 20.25 in	151	Upper recommended size; view from 3+ feet

Which print file should I use?

Use Print Native (4064 x 3056) through 16 x 12 inches and whenever the lab performs its own resampling. Use Print Enhanced (8128 x 6112) for 20 x 15, 24 x 18, or 27 x 20.25 inch work when the lab prefers a 300-PPI-ready container.

Important: the Enhanced file is a careful 2x non-generative resample. It improves edge smoothness and lab handling, but it does not invent new captured detail. At 27 x 20.25 inches its underlying photographic detail is equivalent to about 151 PPI.

For sizes above 27 x 20.25 inches, request a small proof section from the lab before ordering the full print.

Screen editions

Edition	Pixels	Aspect	Intended use
Phone	1440 x 3200	9:20	Modern tall phones; crop-aware focal placement
Desktop	3840 x 2160	16:9	4K monitors, laptops, TVs
Ultrawide	3440 x 1440	21:9	Common ultrawide desktop displays

Professional lab instructions

Use these settings to protect the night-sky color and shadow detail.

1. Color

Files carry the standard sRGB ICC profile. Tell the lab to honor the embedded profile and disable automatic color correction.

2. Cropping

Order a 4:3 print size or ask the lab for no crop. The native composition matches 16 x 12, 20 x 15, and 24 x 18 inches exactly.

3. Sharpening

Disable automatic sharpening where possible. The files already contain restrained output sharpening designed to preserve natural stars.

4. Paper

Lustre or satin is the safest all-purpose choice. Metallic or acrylic can increase perceived depth, but request a proof because deep shadows may appear darker.

5. Proofing

For an expensive or oversized print, first order an 8 x 10 or a representative cropped proof from the same lab and material.

6. Viewing

Judge the print under neutral lighting and at its intended wall distance. Large prints are not meant for pixel-level inspection from a few inches away.

Technical summary

Camera: Google Pixel 9. Source grid: 4080 x 3072. Lightroom active image: 4064 x 3056. Delivery: high-quality JPEG, embedded sRGB ICC, 300-PPI metadata for print editions. The full technical manifest includes dimensions, byte sizes, and SHA-256 checksums for every asset.

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