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Framing Charts

Best Practices:

- The ideal framing chart clearly indicates the captured resolution and aspect ratio, as well as the intended active picture's resolution and aspect ratio. This guides downstream teams in correctly mapping (cropping or scaling) the Original Camera Footage (OCF).
- Use a pixel-accurate digital framing chart (synthetic chart) that can be printed on large paper and shot during technical camera tests (physical framing chart).
- Deliver both the synthetic and physical charts to dailies, editorial, and DI teams for reference in scaling and cropping.

Example chart usage:

- Capture resolution: 6048 x 3190 (sensor mode "6K 17:9 Full Frame"). Indicated by dark grey/middle grey arrows.
- Largest extraction at aspect ratio 1.78:1 is 5670 x 3190 pixels. Indicated by middle grey/black outlined arrows.
- Intended active image resolution is 5386 x 3030 pixels (~5% crop). Indicated by light grey/red arrows.
- Additional elements include crosshairs (center), Siemens focus charts, and dotted outlines showing maximum allowed crop for 4K/UHD.

Uses:

- 1st AC prints and shoots the chart to create accurate framelines in the camera viewfinder.
- Dailies vendors use the chart for correct scaling/cropping in review and editorial files.
- VFX teams reference it to identify screen area for effects.
- Conform editors use it for timeline setup and image framing.

Recommendations:

- When capturing above 4K/UHD resolutions, include a 3-10% safety margin to assist stabilization, reframing, and post-processing. Its availability for editorial/grading varies by project.

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- Use a 50mm or similarly low-distortion lens when shooting physical charts for edge alignment.
- Include Siemens charts to verify camera-to-chart perpendicularity.
- Create unique framing charts for different cameras or setups within a project.

For anamorphic shooting:

- Two charts are needed: an unsqueezed chart displaying circles as circles for physical shooting, and a squeezed chart showing circles as ovals (commonly 2:1 squeeze) for synthetic framing.

Archival Delivery:

- Include framing charts with archival assets to aid future remastering.
- Deliver both synthetic and physical charts for each camera setup in production packages.]