



KODAK VISION3 AHU Camera Negative Films

Talking points for Filmmakers

- Kodak is excited to announce enhancements to our trusted and beloved VISION3 Color Negative films. We're introducing a new VISION3 Camera Negative Film structure – without remjet backing. This new structure incorporates an Anti-Halation Undercoat layer, or “AHU.”
- More than 8 years in the making and in effort to continue to offer Motion Picture customers the most premium photographic products, these enhancements have been masterfully achieved by the film design and manufacturing experts at our factory in Rochester, NY.
- Kodak will gradually introduce the NEW film structure for all KODAK VISION3 Color Negative Films: 5/7219, 5/7213, 5/7207, and 5/7203. This change has been extensively trade tested and will be implemented across all formats from Super 8 to 65mm.
- This change does not alter sensitometric performance, nor does it require any adjustments in processing while product with remjet is still in the market. During the period there is both remjet-backed VISION3 film and the new VISION3 AHU film structure in the market, there is no issue with combining remjet and AHU product together in any workflow. From capture to processing and post-production, the two film structures work together seamlessly.

So, what's NEW?

- The “REMJET” carbon layer on the backside of KODAK motion picture color negative films will no longer be applied during manufacturing. **Why?**
 - Remjet has been applied to the base side of color motion picture films for nearly a century (!), but along with its advantages (spark/halation and scratch protection), it can also be a source of dissatisfaction (namely, dirt).
 - The new film structure eliminates the need for remjet with two added features:
 - incorporation of a process-surviving anti-static and scratch resistant back side layer, which trials have shown produces a cleaner film for scanning and printing
 - addition of an anti-halation protective undercoat layer (“AHU”) on the emulsion side of the film, which washes away during processing

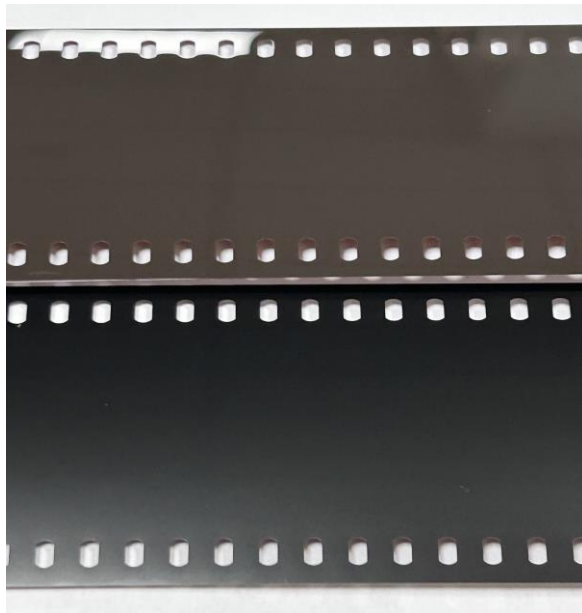
- The new film support remains an ACETATE base. If splicing, it will perform the same as the current product. The base side layers of the new film structure provide scratch protection and post-processed anti-static protection.
- Extensive internal testing of the new film structure has been performed by Kodak, along with various customer trials over the past several years. The feedback has been very positive – the product performs equally to the current VISION3 products, yet with cleaner results.
- The new product also has advantages for labs. Upon full conversion to the new film structure, it is expected that water and energy usage will be significantly reduced with the elimination of remjet removal, which currently requires more extensive pre-bath wash processes.

Questions and Answers:

Q: Can I use the current and new film structures interchangeably?

A: Yes, the sensitometry and handling of the new film structure is identical to the current VISION3 product.

Q: Why does the raw/unprocessed film look different?



A: The current product has remjet on the back side of the film, which is deep black in color with a slightly matte appearance. The new film structure incorporates a transparent based-side anti-static layer and an emulsion-side halation protection layer. Without the remjet layer, the color of the new base-side is dark brown with a glossy appearance.

Q: What is the new anti-halation undercoat layer?

A: AHU is a gel-based layer which is coated beneath the emulsion layers of the film. It is manufactured as part of the emulsion coating process and contains silver and other chemical components, which have been scientifically balanced for optimal sensitometric performance. The density in this layer which protects against halation is removed in processing. There is no change to the product's sensitometry nor are any workflow adjustments required in processing, scanning, and printing workflows.

Q: Why will the new structure be cleaner during scanning?

A: Remjet-backed film loses its antistatic layer (remjet) during processing, while the new film structure incorporates a process surviving anti-static layer which tests have demonstrated acts as a repellent to dust particulates.

Q: What about Archival Integrity?

A: There is no change to the archival performance with the new film structure.

Considerations for Filmmakers:

1. The new Anti-Halation layer is a technically advanced formulation containing proprietary components and SILVER. This will result in significantly higher densities in a skip-bleach process. Please speak with your lab or Kodak representative if you're interested in alternative processing.
2. While side by side comparisons have shown the new AHU film structure controls halation even more successfully than remjet, customer testing is recommended for shot compositions including a highly specular light source pointed directly towards the lens at 8 stops or above normal exposure settings. Certain cameras fitted with highly polished chrome, rail-design back pressure pads may produce additional flare. In this case, Kodak recommends speaking with your camera rental company about alternative **black** back plates to eliminate reflection.
3. Kodak has established new catalog numbers for each VISION3 AHU film product. This is an internal requirement of our systems, and the remjet catalog numbers will slowly be phased out. However, tradenames of each VISION3 product remain the same (with the addition of "AHU" in the catalog). You can continue to reference your film choices by the names you know and love: 5219/7219 500T, 5213/7213 200T, 5207/7207 250D, and 5203/7203 50D.