

Image Analysis for ArcGIS FAQs¹



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How Do I Apply a Look Up Table (LUT) Stretch to My Image?

Use the Image Analysis extension to apply a LUT Stretch to an image. LUT stretches are often useful for visually enhancing features within an image (with a continuous data type). This document describes how to apply a LUT Stretch to an image using Image Analysis for ArcGIS.

What You Will Need and Other Assumptions

- An image to be stretched for visual analysis (ERDAS Imagine format)

Overview of Steps

1. Use the Radiometric Enhancement tools of the Image Analysis extension in ArcMap to save a LUT stretch as a new image.
2. Inspect the results.

Step-by-Step Example

1. Start ArcMap from your Desktop, or on the Windows Taskbar click **Start | Programs | ArcGIS | ArcMap**. Ensure the Image Analysis extension is visible. If not, from ArcMap's main menu select: 1) **Tools | Extensions** and enable **Image Analysis**; and 2) **View | Toolbars** and enable **Image Analysis**.
2. Use the **Add Data** button on the main toolbar of ArcMap to add your multispectral image to the Data Frame.
3. From the **Image Analysis** extension, click **Image Analysis | Radiometric Enhancement | LUT Stretch**.
4. In the LUT Stretch dialog, set the **Input Image** to your image, and specify a location and filename for your new **Output Image**. Click **Save**, and then **OK**.
5. Inspect your results.

Note: images that have been stretched should not be used for any further spectral analysis. The original spectral data have been modified, and do not correspond to actual reflectance of ground features.

¹ Produced by the USDA Forest Service RSAC (<http://fsweb.rsac.fs.fed.us>). A Forest Service version of Image Analysis for ArcGIS was used to develop this reference document. No warranty is made as to completeness or accuracy.