

Leaf Aptus Backs and Ultra-Wide Angle Photography

Part 1

While researching the “centerfold phenomenon” with Leaf Aptus digital camera backs, we have discovered that specific lens models can have a dramatic effect on the centerfold phenomenon and on errant colorcasts.

The following lenses have been tested with the Leaf Aptus series, and were found to produce either very minimal, or no negative effects whatsoever:

- Schneider Digitar 28mm f/2.8-L
- Rodenstock Apo-Sironar digital HR 28mm f/4.5
- Rodenstock Apo-Sironar digital HR 35mm f/4
- Schneider Super-Angulon XL 38mm f/5.6
- Rodenstock Apo-Sironar digital HR 60mm f/4

Using one of the above lenses is likely to eliminate the need to utilize custom gain files and wide-angle correction utilities for the purposes of centerfold and color cast corrections.

In addition, because all of the above listed lenses have a Flange Focal Distance of 50mm+ (when focused at infinity), they can be used on most 2x3 and 4x5 view cameras or specialty wide cameras, such as Alpa, Cambo Wide DS, and so on, when mounted in a helical focus mount. This means photographers can use their existing view cameras with the Leaf Aptus digital camera back for ultra-wide angle photography.

Part 2

The following lenses, while optically outstanding, have been found to produce the strongest centerfold and color cast problems. Use of these lenses with the Leaf Aptus series will almost certainly require regular use of custom gain files and/or the Leaf Custom Gain Adjustor:

- Schneider Apo-Digitar XL 24mm f/5.6
- Schneider Apo-Digitar XL 35mm f/5.6
- Schneider Apo-Digitar XL 47mm f/5.6

Note: These results should not be construed as an endorsement of any particular lens or brand of lenses, nor did these specific tests include any lenses other than those listed above. These tests utilized products and software current as of the date of testing, Spring 2007.

For more information refer to the Cast Effects in Wide Angle Photography Technical Bulletin at the following location: http://www.leaf-photography.com/imgs/uploads/technical%20bulletins/Cast_Effects_in_Wide_Angle_Photography.pdf