

## Basler offers Theia's ultra wide, undistorted lenses as an accessory to their cameras



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Basler now offers Theia Technologies' SY110 Fixed Focal Megapixel Lens as an accessory lens for use with their IP camera product line. Theia's 1.7 mm lens provides up to 110 degrees horizontal field of view (HFOV) with Basler's box IP camera models BIP-640c/-dn, BIP-1000c/-dn, and BIP-1300c/-dn. This provides the opportunity to cover more area with a single camera, potentially reducing the overall cost of system ownership.

According to Gerrit Schreiber, Product Manager for IP Components at Basler, "Theia's megapixel resolution lenses complement our high definition, megapixel IP cameras. Their ultra wide, undistorted field of view supports the full coverage provided with our megapixel solutions. We believe this will add a valuable option for our customers."

Theia's patented Linear Optical Technology® enables an image with less than 1% barrel distortion. By contrast, most wide angle lenses above 80 degrees horizontal field of view produce an image with noticeable levels of barrel distortion, also known as fisheye distortion. Distortion in typical wide angle lenses compresses data at the edges of the image, causing a loss of information, which translates into degraded image resolution in those areas. Theia's technology doesn't compress or lose information, but instead maps the subject over more pixels providing improved image resolution at the image edge and increasing the chance of recognition of individuals and objects.

Same camera (5mpix) and position:

2.5 – 4mm lens (at 2.5mm):	Theia SY110M:
	

Theia's lenses correct barrel distortion in the optics of the lens without the use of de-warping software for a faster, real time solution. Image information lost due to the barrel distortion of typical wide angle lenses cannot be recovered even with the use of de-warping software.

And the SY110 lens is IR corrected so maintains its crisp, clear megapixel resolution image in IR illumination making it a perfect accessory for Basler's box day and night cameras, with their removable infrared-cut filter. Theia's ultra-wide angle lens with Basler's megapixel network cameras broaden the possibilities by further enhancing the crisp, clear images provided through Basler's camera technology.

## About Theia

*Theia Technologies provides high quality megapixel lenses for security and machine vision applications. Their patented, award winning Linear Optical Technology® corrects barrel distortion and improves image resolution over typical lenses. Theia lenses are designed and marketed from the US, and manufactured to ISO 9001 standards. Theia also provides optical engineering and custom design services. Theia has several issued and pending US and foreign patents for lens technologies. For more information, contact Andrea Iñiguez, +1 (503) 570-3296, or visit [www.TheiaTech.com](http://www.TheiaTech.com).*

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## About Basler

*Basler Vision Technologies is a leading German manufacturer of digital cameras for industrial applications, medical devices, traffic systems, and the video surveillance market. Basler has more than 20 years of experience in image processing. They have designed and manufactured high-quality digital cameras for over 10 years. Their products are world famous for excellent image quality, high reliability, ease of use, and ease of integration. For more information, call +1 610-280-0171 or visit [www.basler-ipcam.com](http://www.basler-ipcam.com).*

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