

3M Optical Systems

Vikuiti™ Image Directing Film II (IDF II)



Many flat panel displays do not naturally transmit their images at the best angle for the viewer. Vikuiti™ Image Directing Film II (IDF II) from 3M can help. A transparent optical composite, Vikuiti IDF II takes the image created by your flat panel display and redirects it to the optimum viewing angle.

Incorporating Vikuiti IDF II into your display is easy. It can be used either within the lighting system or above the display.

When used in the lighting system, Vikuiti IDF II is simply inserted into the backlight or laminated to another material for rigidity. The film is less than 0.006" thick and therefore adds virtually no weight or thickness to your display.

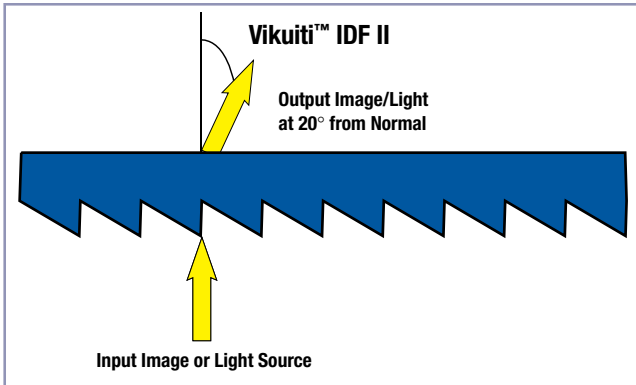
You can use Vikuiti IDF II to direct the image on almost any flat panel display. You can also combine it with other Vikuiti™ Display Enhancement Films to boost screen brightness, improve lighting uniformity and cut power consumption.



Vikuiti™ Image Directing Film II (IDF II)

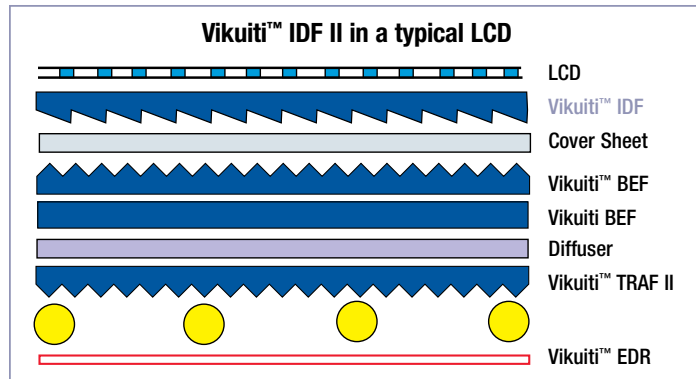
How it works

Using the principles of refraction and reflection, Vikuiti IDF II directs incident light at a controlled angle. And since nearly all of the light that falls on the film is transmitted through it, the redirected images are virtually distortion-free.



Vikuiti IDF II in a typical display application

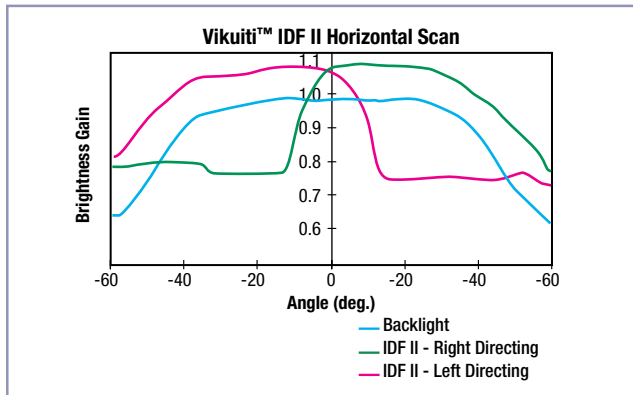
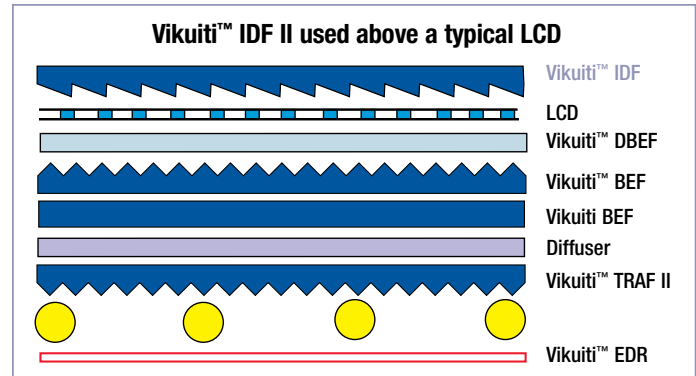
The diagrams below illustrate how you can use Vikuiti IDF II in conjunction with other Vikuiti™ Display Enhancement Films to increase screen brightness, enhance screen uniformity and improve the angle of view.



Nominal film properties

Film properties	Vikuiti™ IDF II 10
Repeating Micro-replicated Prism <ul style="list-style-type: none"> Prism Pitch Deviation Angle 	50µm 20°
Material <ul style="list-style-type: none"> Prismatic Structure Substrate Backing 	Modified Acrylic Resin Polyester
Physical Characteristics <ul style="list-style-type: none"> Form Nominal Thickness 	Film 155µm

The technical data for the products described are typical, based on information accumulated during their life, and are not to be used in the generation of purchase specifications which define property limits rather than typical performance.



Important Notice to Purchaser

The following is made in lieu of all warranties, express or implied, including any implied warranties of merchantability or fitness for a particular purpose. 3M warrants that, at the time of shipment, product will meet 3M's published specification or that specification agreed in writing between 3M and purchaser. Should product not meet specifications at time of shipment, 3M will replace or refund the purchase price of such quantity of the product found not to meet specifications. Purchaser shall determine the suitability of the 3M product for purchaser's application. 3M shall not be liable under any legal theory, including in contract or in tort, for any injury, loss, or damage, whether direct, indirect, incidental, special or consequential, arising out of the use of or the inability to use the product. **The warranties and remedies set forth herein are purchaser's sole and exclusive warranties and remedies.**



Optical Systems Division

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For more information, visit our website
3M.com/display films

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