Putting the future in the rear view mirror.

3M™ Reflective Polarizing Mirror (RPM)
3M™ Contrast Enhancement Film (CEF)

A dual-function eMirror.
Safer at a glance.

Integrating information into the rear view mirror allows the driver to more safely glance up. Connect the eMirror to sensors and video cameras and enable:

- Augmented reality
- Unobstructed views of objects behind the vehicle
- Visual safety alerts
- Blind spot monitoring
- Parking guidance
- Capability to monitor passengers like small children in the back seat

Brightness efficiency enables power reduction.

3M™ Reflective Polarizing Mirror (RPM) film is designed to replace the 50/50 metalized mirror while delivering brightness and efficiency improvement in the electrified state.

In full mirror mode, with LCD off, 3M RPM reflects as proficiently as a conventional mirror and because it is optically flat; the image won’t be distorted. When the backlight is on with film and LCD transmission axes aligned, >90% of light is transmitted, significantly boosting the brightness of the image display by ~60%. A brightness increase like this means fewer LEDs can be used, reducing power and heat.
Design a narrow bezel while reducing glare.

Thin, lightweight and warp-resistant, 3M™ Reflective Polarizing Mirror allows you to build an eMirror with a thinner profile. With 3M™ Contrast Enhancement Film (CEF) you can design it with a narrow to zero bezel. 3M CEF is an optically clear adhesive in sheet form which reduces glare from ambient light by filling in air gaps between surfaces. It conforms well to curved edges, making it an optimal choice for narrow bezel designs.

Mirror mode

<table>
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<tr>
<th>P</th>
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<tbody>
<tr>
<td>3M™ RPM</td>
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<tr>
<td>TFT LCD (OFF)</td>
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<td>Backlight</td>
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LCD mode

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RPM used in place of the silvered mirror
S = S-polarized light.
P = P-polarized light.

Bench to bench collaboration

Contact your 3M representative to find out more about how we can enable your eMirror designs.

3m.com/eMirror