E-mirror
External rear and side-view

Enhanced field of vision

In traffic, good visibility is essential, especially in critical situations on narrow streets or on highways. HARMAN’s new approach is to assist the driver in an intelligent and intuitive way and increase safety, comfort and convenience. HARMAN E-mirrors enhance or replace traditional rear- and side-view mirrors. The mirrors are further augmented by valuable information such as distance to other vehicles or their speed. Where E-mirrors replace conventional mirrors entirely, video of all three views (left/mid/right) appears in the center display or digital rear-view mirror.

The thinking mirror

The HARMAN E-mirror is not merely another in-car display – it is an intelligent assistant that delivers the view the driver needs. For example, the mirror activates or dims automatically based on user gaze. The system can even detect moving objects and sound an alarm if things get too close. During overtaking, the mirror enlarges the view most important to the driver. Furthermore, the system corrects distortions and provides helpful additional information such as distances while parking and maneuvering.

Making Time in the Car,
Time Well spent

Mobility is more than getting from one place to another. It’s about shifting from one state of being to the next. HARMAN ExP doesn’t just move people from one place to another, it delivers in-vehicle experiences that put people first, so time in the car, becomes time well spent.

HARMAN ExP bundles advanced technologies to deliver meaningful consumer experiences, enables OEMs to unlock new market opportunities, and empowers HARMAN to create value today while positioning our customers to thrive tomorrow.

HARMAN ExP maximizes consumers’ time and quality of life in four key consumer benefits:

- Accomplishment,
- Well-being,
- Social Connection, and
- Enjoyment.

Key highlights

E-mirrors enhance or replace the traditional rear- and side-view mirrors

The intelligent Compute Platform always delivers the right view

Driving safety is greatly enhanced by features like blind-spot warning and lane-change assist

The modular system enables integration in different car segments
HARMAN E-mirror system components

Technical details

Options
- Mirror fully integrated into compute platform or using a standalone ECU
- Option A: single camera, single display for internal rear-view mirror replacement (1:1:1 configuration)
- Option B: left/right rear-view mirror and two displays (2:1:2 or 2:2:2 configuration)
- Option C: 3:1:3 configuration

Technical features
- Image distortion correction
- Mirror augmentation
- Curbside view

Safety features
- ASIL B compliant
- Blind spot warning
- Lane change assist
- Rear collision warning

HARMAN

More than 50 million automobiles on the road today are equipped with HARMAN audio and connected car systems. Our software services power billions of mobile devices and systems that are connected, integrated and secure across all platforms, from work and home to car and mobile. HARMAN’s latest innovations leverage Samsung’s connected lifestyle and hardware expertise, allowing automakers to create an ecosystem of unique, smart, enhanced and rich in-vehicle experiences. Together HARMAN and Samsung are architects of experience, designing the most intuitive and immersive interactions with in-vehicle technology. HARMAN is a wholly-owned subsidiary of Samsung Electronics Co., Ltd.
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