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(57) Abstract :

A smart mirror device (100) with integrated blind spot cameras (104a, 104b), night vision sensor (105), and semi-transparent display (102) provides enhanced driving safety. The device uses AI-based object detection (106) to highlight threats within blind spots and low-light environments. The system automatically activates based on vehicle indicators or ambient light conditions, ensuring intuitive operation. The mirror maintains reflective properties while overlaying sensor data to assist drivers without causing distraction, offering a compact, retrofit-friendly solution for enhanced visual awareness.

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