



#### FCC Caution:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### FCC Notes:

The manufacturer is not responsible for and radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.



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Azentek, LLC.  
6070 S. Saginaw Rd.  
Grand Blanc, MI 48439 USA  
(866) 281-1250  
<http://www.azentek.com>



# SmartMirror™

## SM-450 / SM-451

BLUETOOTH GPS REAR-VIEW MIRROR

## INSTALLATION GUIDE



## Introduction

The Azentek SmartMirror is intended to assist you in safe driving by providing directions, hands-free phone connectivity, and a broader view during reversing. The driver is solely responsible for safe vehicle operation and passenger safety according to laws of the country and local traffic regulations. Do not use any features of this system to the extent it distracts you from safe driving. Your first priority while driving should always be the safe operation of your vehicle. Azentek cannot accept any responsibility for accidents resulting from failure to observe these precautions.

1. Any unauthorized modifications or damage to the products may result in electrical shock. Handle all components with care. Inspect regularly for damage to components and cabling.
2. Installer is responsible to ensure that the installation of this product does not void or affect the vehicle manufacturer's warranty. Azentek is not liable in any part for improper installation resulting in loss or damage to your property, or for voiding all or part of the vehicle manufacturer's warranty.
3. Do not apply excessive force to any of the components contained within this kit. Excessive force used before, during or after installation that results in a damaged or non-functional product shall void all warranties.
4. Please follow all procedures contained within this installation manual. Improper installation or modification of this product shall void all warranties.



## Specifications

CPU	Samsung S3C2440A-400MHZ
RAM	64MB
Memory card	2GB
LCD	4-inch / 480x272 pixel
Touch Screen	Four-line resistive touch
Speakers	Internal 8Ω/1W
GPS	Switzerland-UBLOX-LEA4S
Bluetooth	Version 1.2
Power Supply	12VDC
Power Consumption	<10W
Current Draw	<500 mA
Video Format	PAL/NTSC
Video Input	1Vp-p@ 75 Impedance
Operating Temperature	0 °C - 60 °C

## Maintenance

The Azentek SmartMirror requires little care, however to maintain it in optimum condition, follow the procedures below:

1. Keep SmartMirror away from excessive moisture, extreme heat or cold and magnetic fields.
2. Keep liquids away from the display.
3. Do not place external devices or other objects on the top of SmartMirror.
4. Occasionally clean mirror glass with a soft cloth moistened with water or window cleaner.

## Installation

1. Install universal windshield mount to SmartMirror using supplied screws. There are multiple holes to allow proper mirror placement. Do not over tighten screws.



2. Mount Smart Mirror to windshield by sliding universal mount over factory button on windshield. Tighten screw using supplied allen key.

3. Find suitable mounting location for microphone. For best results place microphone within two (2) feet of the drivers' head. The top of the A-pillar or above mirror in center of windshield are recommended locations. Route wire to mirror and plug into 1/8" jack.

4. Plug in supplied power harness and route to suitable location to make power connections. Connect wires to car as follows:

Yellow	12-Volt Constant
Red	12-Volt Switched (Ignition)
Black	Chassis Ground
Green	Reverse Light
Video 1 RCA	Additional Camera
Video 2 RCA	Reverse Camera Input

## Introduction

### Parts Included:

- SmartMirror
- Wire harness
- Universal mount & screws
- Universal button
- Allen key
- External GPS antenna (not used with all installations)

### Tools Recommended for Proper Installation:

- Safety Glasses
- DC voltmeter or test light
- Crimping pliers
- Wire strippers

### Preparation

- Inspect mirror for damage
- Check parts list for accuracy.

Note: Azentek does not recommend installing this mirror if your vehicle has airbag sensors in the headliner area or if your vehicle is equipped with OnStar.

If your car, truck or suv mirror is mounted within the windshield, not stuck on like the wedge mount or camlock style, detachment is not recommended. If your windshield wipers have a sensor mounted to your rearview mirror, installation of this mirror will inactivate that function.

## Introduction

The Azentek SmartMirror is packaged with a "universal" wedge style mount for attaching to the windshield. Camlock and other mounting adapters are sold separately. For a complete list of available mounting hardware, visit <http://www.azentek.com>.

### The two most common mirror mounting styles are:



**Wedge mount** - Generally standard on vehicles manufactured in the United States, regardless of vehicle make. This style of mirror can be found with or without a screw. See page 5 for removal instructions.



**Camlock mount** - Generally standard on vehicles manufactured outside of the United States. This style of mirror must be removed by turning the mirror 90 degrees so that it is perpendicular to the dash, and pulling down on the mirror.

## Factory Mirror Removal



### Screw Wedge Mount

Using a screwdriver or torx bit, loosen the screw in the base of the mirror. After loosening screw, gently lift upward to slide mirror off of mirror mount.

### Screwless Wedge Mount

Using a small 1/8" (4 mm) flat-blade screwdriver, insert the flat end into the opening at the bottom of the mirror mount at the windshield. Slide the screwdriver into the center of the mirror mount until resistance is felt. Gently apply a small amount of additional upward force to lift away locking spring in the mount. While still applying upward pressure with the screwdriver, grasp the mirror bracket and wiggle side to side. Lift mirror up toward the headliner and off the windshield mount button.

### Camlock Mount

Grasp the base of the mirror. Rotate 90 degrees left or right. Slide mirror downward toward dash to remove.