

iBeam TE-MICM

iBeam Micro Camera Black Fixed Angle User Manual

Model: TE-MICM

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your iBeam Micro Camera Black Fixed Angle (Model TE-MICM). This camera is designed to enhance vehicle safety by providing clear visual assistance. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

- Always disconnect the vehicle's battery before beginning any electrical installation.
- Ensure all wiring is properly insulated and secured to prevent short circuits or damage.
- Do not obstruct the driver's view or interfere with vehicle controls during installation.
- Consult a professional installer if you are unsure about any part of the installation process.
- This product is intended as an aid and should not replace safe driving practices.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- iBeam Micro Camera Black Fixed Angle (TE-MICM)
- Mounting Hardware (8MM threaded bolt, nuts, washers)
- Wiring Harness
- Instruction Manual (this document)



Image: The retail packaging for the iBeam Micro Camera, showing the camera and its model number on the box.

4. PRODUCT OVERVIEW

The iBeam Micro Camera (TE-MICM) is a compact, fixed-angle camera designed for various vehicle applications, including backup assistance. It features a durable, water-resistant design and provides a clear image for enhanced visibility.



Image: A close-up view of the iBeam Micro Camera, highlighting its compact black housing and the camera lens.

Key Features:

- **Compact Design:** Small footprint for discreet installation.
- **Water Resistant:** IP68 rated for reliable performance in various weather conditions.
- **Image Sensor:** 1/4 CMOS image sensor for clear video output.
- **Switchable Image:** Mirror/Normal image option for versatile mounting (e.g., rear view or front view).
- **Mounting:** Features an 8MM threaded bolt for secure mounting.

5. SETUP AND INSTALLATION

Follow these steps for proper installation of your iBeam Micro Camera:

1. **Choose Mounting Location:** Select a location that provides an unobstructed view and allows for secure mounting. Common locations include above the license plate, on the bumper, or integrated into a vehicle panel. Consider the 18.7mm height of the camera housing for clearance.
2. **Prepare Mounting Surface:** If drilling is required, ensure no existing wiring or components will be damaged. Drill a hole appropriate for the 8MM threaded bolt.
3. **Mount the Camera:** Insert the 8MM threaded bolt through the prepared hole and secure the camera using the provided nuts and washers. Ensure the camera is oriented correctly for the desired view.
4. **Wiring Connections:**
 - Connect the camera's power wire (typically red) to a 12V power source that is activated when the camera is needed (e.g., reverse light circuit for a backup camera, or ignition-switched power for a front camera).
 - Connect the camera's ground wire (typically black) to a clean chassis ground point.
 - Connect the video output cable from the camera to the video input of your display monitor or head unit.
5. **Test Functionality:** Before reassembling vehicle panels, test the camera's operation. Turn on the vehicle and engage the appropriate gear (e.g., reverse) to activate the camera. Verify that the image appears clearly on your display.
6. **Secure Wiring:** Route all cables safely away from moving parts, heat sources, and sharp edges. Use zip ties or electrical tape to secure wiring.



Image: Illustration showing two common mounting options for the iBeam Micro Camera: a flush mount and a lip mount using the threaded bolt.

6. OPERATING INSTRUCTIONS

Once installed, the iBeam Micro Camera operates automatically when power is supplied to it and the connected display is active.

- **Backup Camera Use:** If connected to the reverse light circuit, the camera image will automatically appear on your display when the vehicle is shifted into reverse.
- **Front/Side Camera Use:** If connected to an ignition-switched power source or a manual switch, the camera can be activated as needed.
- **Image Orientation:** The camera supports switchable mirror/normal image output. Refer to your installer or the

camera's wiring diagram for instructions on how to change this setting, typically by cutting a specific wire loop.

7. MAINTENANCE

The iBeam Micro Camera is designed for low maintenance. Follow these guidelines to ensure longevity:

- **Cleaning:** Periodically clean the camera lens with a soft, damp cloth to remove dirt, dust, or water spots that may obstruct the view. Do not use abrasive cleaners.
- **Inspection:** Regularly check the camera's mounting and wiring connections to ensure they remain secure and free from damage.
- **Avoid High-Pressure Washing:** While water-resistant, avoid directing high-pressure water sprays directly at the camera lens or housing, as this could potentially compromise the seal.

8. TROUBLESHOOTING

If you experience issues with your iBeam Micro Camera, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No image on display	No power to camera or display; Loose video connection; Incorrect video input selected on display.	Check power and ground connections; Ensure video cable is securely connected; Select correct video input on monitor.
Flickering or distorted image	Poor power connection; Ground loop interference; Damaged video cable.	Verify power and ground connections are solid; Install a ground loop isolator if necessary; Inspect video cable for damage.
Image is reversed (mirror vs. normal)	Incorrect image setting.	Adjust the mirror/normal image setting on the camera (refer to wiring diagram for specific wire to cut/connect).
Image is blurry or unclear	Dirty lens; Condensation on lens; Damaged camera.	Clean the camera lens; Allow time for condensation to dissipate; If persistent, camera may be damaged and require replacement.

9. SPECIFICATIONS

Feature	Detail
Model Name	iBeam Micro Camera Black Fixed Angle
Model Number	TE-MICM
Image Sensor	1/4 CMOS
Water Resistance	IP68
Mounting	8MM threaded bolt
Camera Housing Height	18.7mm
Image Output	Switchable Mirror/Normal



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BACKUP CAMERAS 17 THIRD BRAKE LIGHT TE-3BFT FORD COMMERCIAL THIRD BRAKE LIGHT CAMERA NIGHT VISION ... TSSC TE-RRSC TE-RSC TE-SBC TE-SRBC TE-SSA TE-SSC TE-SSIR TE-THC TE-TSSC **TE-MICM** TE-MIIRB TE-MIIRW TE-MIFM TE-BPC TE-BPCIR TE-BPTC TE-BPLTC TE-3BMC ...
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MIFM/TE-MIIRB/TE-MIIRW MICRO CAMERAS SALES 386-257-2956 TE-MIIRB

Black 8mm threaded bolt for mounting 18.7mm .75 height of camera housing IR LEDs
1/4 CMOS image sensor Water Resistant: IP68 Mirror/Normal Image: Swi...

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