



Infrared Night Vision Camera System

INTERFACE COMPONENTS

- TE-IFD Interface • Power harness • Video harness • USB & Wi-Fi cable
- Night vision infrared front camera • Rear camera • Camera extension cables (2)
- License plate mount with infrared lights • Infrared driver

INTERFACE FEATURES

- Includes a night vision infrared front camera
 - Daytime video resolution – 1920 x 1080p
 - Nighttime video resolution – 1280 x 720p
 - 120 degree wide lens angle
 - 170 degree diagonal lens angle
 - 100-200m night vision range
 - Strong fog penetration
- Includes a rear camera
 - Video resolution – 1280 x 720p
 - 120 degree wide lens angle
 - 170 degree diagonal lens angle
 - Aperture F2.0
- Digital recorder supporting up to 32GB USB flash drive
- Automatic recording up to 28 hours
- Can be viewed in the day or at night
- Built-in g-force sensor detects collisions
- H.264 video format
- JPEG image format
- Loop recording support
- Built-in motion sensor
- 3-year warranty

TABLE OF CONTENTS

Introduction.....	2
Installing the TE-IFD	2-3
User guide	4
Features.....	4
TE-IFD Layout.....	5

TOOLS REQUIRED

- Wire cutter • Crimp tool • Solder gun • Tape
- Connectors (example: butt-connectors, bell caps, etc.)

CAUTION! All accessories, switches, climate controls panels, and especially air bag indicator lights must be connected before cycling the ignition.

INTRODUCTION

The I-Beam TE-IFD is a camera system that utilizes a front facing infrared night vision camera to monitor and digitally record oncoming traffic and obstacles at night. A front mounted license plate with high power infrared L.E.D.'s assist the camera in providing a clear image at night. A standard rear mounted camera has been provided as well to complete the package. Both camera images will be shown through either an aftermarket radio, or a stand-alone monitor (not provided).

Supporting up to a 32GB USB flash drive (not included), the TE-IFD can record up to 28 hours of continuous recording, automatically while you are driving, through both the front and rear cameras. A built-in g-force sensor will detect a collision which will then lock and protect the video files from being overwritten. The TE-IFD can also record images while the vehicle is parked with the help of a built-in motion sensor located within the front camera. Recorded videos can be easily retrieved and played back, and used as evidence if need be.

Color instructions are available using the QR code below or visiting:

http://ibeamusa.com/index.php?main_page=product_info&cPath=33_36&products_id=200



INSTALLING THE TE-IFD

- > **Front Camera:** Find a suitable place on the inside of the windshield to install the night vision infrared front camera. Behind or near the mirror would be best. Before unpeeling the tape to install the camera, adjust the camera lens to face forward. The camera lens will simply rotate up or down. Clean the windshield, unpeel the double sided tape, and then adhere the camera to the windshield. Route the cable to the location where the TE-IFD will be installed at, then connect the camera to the TE-IFD interface. (Figure A on next page)
- > **Rear Camera:** Using (2) stainless steel Phillips screws provided, install the camera labeled "Rear Camera" to a location in the center of the rear of the vehicle. The license plate area in most vehicles is a good location. Leave the adjustment screws loose until the camera has been adjusted. Once the camera has been adjusted, tighten the screws. Route the cable into the vehicle, and then to the location where the TE-IFD interface will be installed at. Connect the camera to the TE-IFD interface. (Figure A on next page)
- > **License plate mount with infrared lights:** Remove the license plate from the front of the vehicle and install the license plate mount with infrared lights between the license plate and the vehicle. Connect the infrared driver, then route the **Black** and **Yellow** wires to the battery. Connect the **Black** wire to the negative post, and the **Yellow** wire to the positive post. Connect the **Red** wire to an accessory power source.
- > **Video harness:** Connect the **Yellow** RCA jack to an aftermarket radio or stand-alone monitor providing the camera image. If the radio/monitor has a reverse trigger wire, connect the **Red** wire to the reverse trigger wire. If not, tape off and disregard the **Red** wire. Connect the harness into the TE-IFD interface.

Continued on the next page

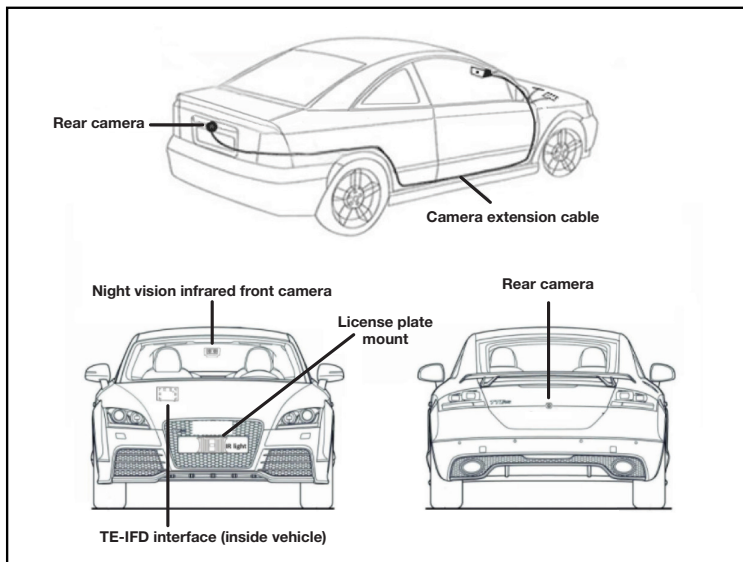
INSTALLING THE TE-IFD (CONT.)

- > **USB & Wi-Fi cable:** Connect the cable to the TE-IFD interface, then route the USB end of the cable to a location that is hidden, yet accessible to the owner of the vehicle. This is where the USB flash drive (not provided) will connect to.

Note: This cable also includes the Wi-Fi antenna internally and must be connected, regardless if a USB flash drive will be used or not.

- > **TE-IFD interface harness:**

1. Connect the **Black** wire to chassis ground.
2. Connect the **Yellow** wire to battery power.
3. Connect the **Red** wire to accessory power.
4. Connect the harness into the TE-IFD interface.



(Figure A)

USER GUIDE

Button function

Power Button:

- > Pressing the power button will switch between: Night Vision/Front View/Rear View/Off

Note: Turning the TE-IFD off will also close the app.

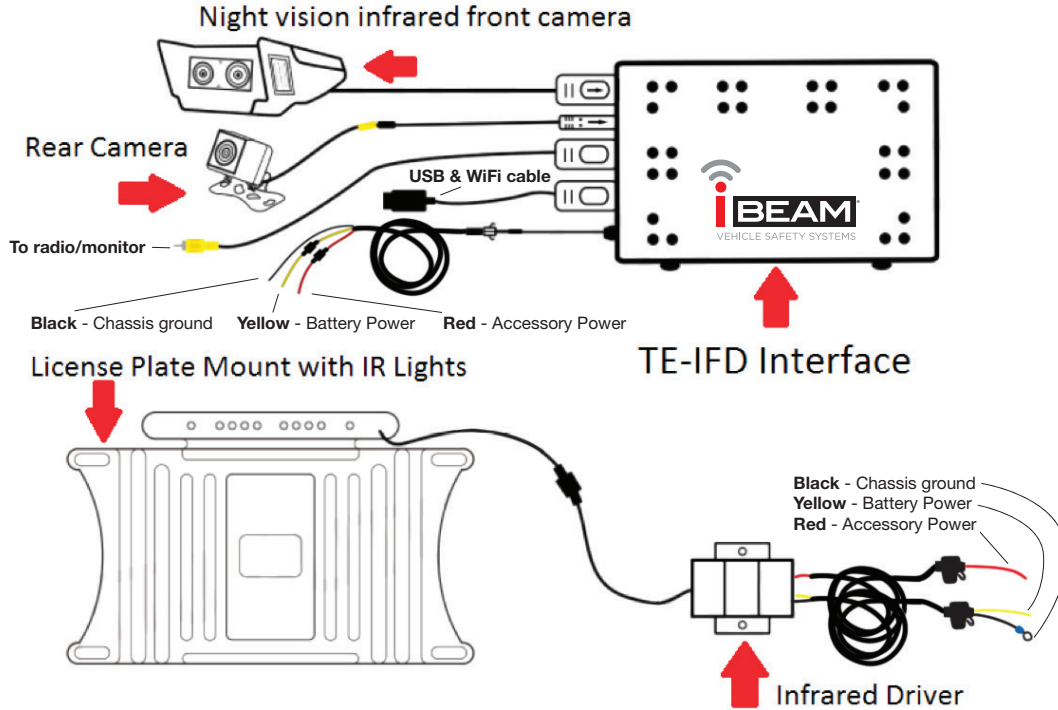
M Button:

- > Disregard this button, it will not be used in this application.

FEATURES

- > **Automatic recording:** After the vehicle has been started, the TE-IFD will start recording. When the vehicle is turned off, the TE-IFD will then save the recorded files to a USB flash drive (not provided), and then turn off. When the USB flash drive is full, older files will be deleted.
- > **Motion detection (optional):** While the vehicle is in parked and unattended, the TE-IFD can be triggered by motion when an object moves within the sensing area in the front of the vehicle. To enable or disable this feature, the software in the TE-IFD will need to be updated online. Instructions on how to perform this update are also available online. Please refer to the website link or QR code in the beginning of the instruction booklet.
- > **Video lock/unlock:** This will allow files to be locked or unlocked.
- > **Sync time:** This will allow the date and time from the mobile phone to sync to the TE-IFD.
- > **Video playback:** This will allow a selected video file to be played backed.

TE-IFD LAYOUT





Lined writing area on the left side of the page, consisting of 17 horizontal lines.

Lined writing area on the right side of the page, consisting of 17 horizontal lines.





TE-IFD INSTALLATION INSTRUCTIONS



IMPORTANT

If you are having difficulties with the installation of this product, please call our Tech Support line at 1-800-253-TECH. Before doing so, look over the instructions a second time, and make sure the installation was performed exactly as the instructions are stated. Please have the vehicle apart and ready to perform troubleshooting steps before calling.



KNOWLEDGE IS POWER

Enhance your installation and fabrication skills by enrolling in the most recognized and respected mobile electronics school in our industry. Log onto www.installerinstitute.com or call 800-354-6782 for more information and take steps toward a better tomorrow.



**Metra recommends MECP
certified technicians**