Specifications

Power Consumption	Max 4.2W (IR on)
Operating Voltage Range	9 to 14 VDC (powered by recorder)
Operating Temperature Range	-4 to 122°F (-20 to 50°C)
Field of View (FOV)	H: 171 V: 88
Resolution	1080p
Infrared LED Lamps	4 high efficiency LEDs
Minimum Illumination	B&W, IR LEDs on: 0 lux
Enclosure Size	Height: 2.1" (53.55 mm) Width: 2.7" (68.6 mm) Depth (with bracket): 2.5" (63.74 mm)
Enclosure Material	Die-cast aluminum (powder-coated)
Environmental Rating	IP67
Bracket Material	SUS304
Dome	Polycarbonate
Connector Cable Length	12" (30 cm)
Weight	0.39 lbs (177 g)

Routine Maintenance

Most liquid cleaners or graffiti gel can be used to clean your camera enclosure. Do not use abrasive cleaners that can scratch the window and reduce visibility of the camera.

Service
If your HD3U series Ultra-Wide Camera is to be returned for service, please call toll free **1.877.630.7366**, or **1.844.899.7366**, and provide the model and/or serial# of your unit. Ask for a Return Merchandise Authorization (**RMA**) number. An RMA# allows the Service Technicians to better track your product when it comes in for service. Please show the RMA# on the outside of the package. **ANY PRODUCT SENT WITHOUT AN RMA# MAY BE REFUSED.**

Technical Support
Email: **PTsupport@safefleet.net**
Phone: **1.844.899.7366**

Documentation
Information is subject to change without notice. Please check the Safe Fleet Community for the latest version, as well as additional copies of this guide and other supporting documentation.

https://community.safefleet.net

HD3U Ultra-Wide Camera
Quick Installation Guide

Installation Kit Contents

The kit includes the following components:

- 1 HD3U camera with pre-inserted grommet on connector cable
- 1 Mounting bracket
- 2 x #10 ¾" self-drilling screws
- 1 Torx T10 security key
- 1 drilling template
- 1 *Quick Installation Guide*

> **WARNING**: **Harness Compatibility**
>
> This camera requires a special Analog High Definition (AHD) harness - as indicated by a blue band in front of the connectors. Note that a standard harness may appear to work on a small analog screen, but the image will be significantly degraded during subsequent playback.
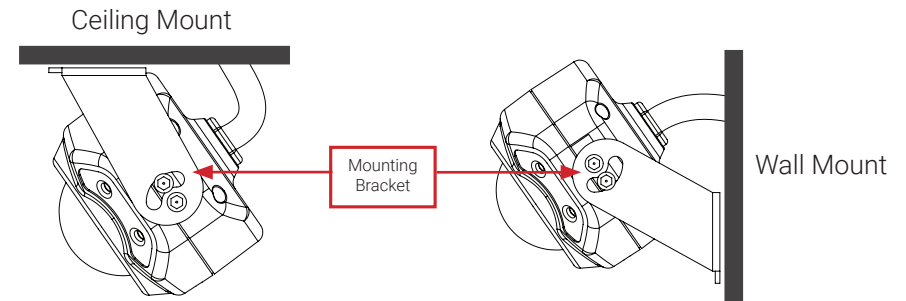
Step 1: Choose Camera Location

The mounting location must meet the following requirements:

- a solid surface (to minimize vibration)
- away from access panels, hatches, or doors which may block the camera view
- away from heat sources

Cameras are usually installed with cabling running inside wall panels.

Step 2: Choose Mounting Orientation

The HD3U can be mounted in two orientations: "ceiling mount" (bracket arms angled down from the mounting surface), or "wall mount" (bracket arms angled up):

Ceiling Mount

Mounting Bracket

Wall Mount

To select an orientation, consider the mounting surface and range of motion (camera tilt and bracket wall pivot or ceiling pan) that provides the required field of view (see Step 3, below). The most common position will be ceiling mount, with the camera tilted downward (approximately 45 degrees below the horizon).
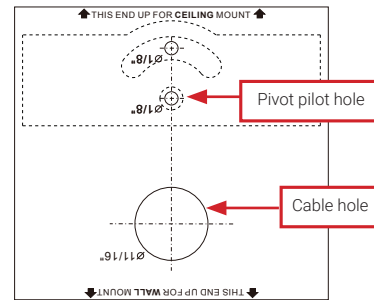
Step 3: Install the Mounting Bracket

1. Use the supplied Torx key to loosen the two security screws on each side of the camera housing and remove the mounting bracket.

2. Use the supplied drilling template to mark the cable hole (11/16") and pilot holes (1/8") on the panel.

> **Important: Ensure the drilling template is positioned correctly, according to your mounting orientation.**
>
> The template indicates which end should face upward for ceiling mount or wall mount.

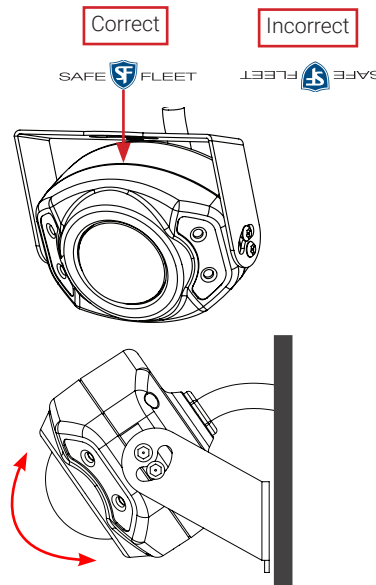3. Drill the pivot pilot hole (see the image on the right).

> **Note:** The template image on the right is not to scale. The actual template is included with the HD3U Installation Kit.

4. Use a single #10 ¾" self-drilling screw in the pivot pilot hole to hold the bracket in place.

5. Position the camera on the mounting bracket:

   Ensure Top Side of Camera Faces Upward

   The camera housing is stamped with "Safe Fleet" branding on both its top and bottom. Looking into the lens, when the camera is right-side-up, the branding reads "Safe Fleet". If it does not, flip the camera (i.e. rotate 180 degrees).

6. Connect the camera to the recorder and check the image displayed. Confirm the mounting position and range of motion (camera tilt and bracket wall pivot or ceiling pan) provide the required field of view, and that the image can be properly aligned.
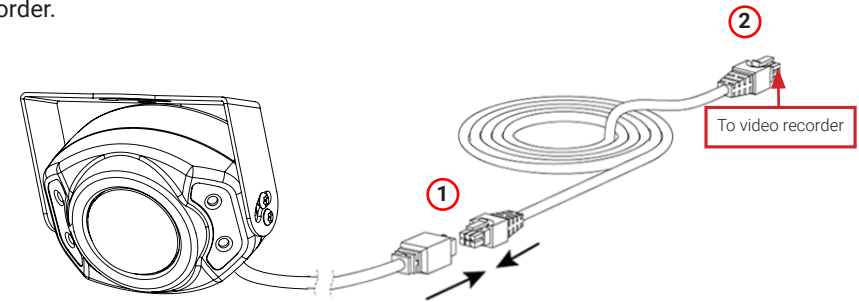
   If necessary, choose a different mounting orientation and/or location and repeat steps 2 through 4 above.

7. Remove the screw and the bracket from the mounting surface.

8. Use the template marks and drill the other 1/8" pilot hole and the 11/16" cable hole (use a step-bit to drill the cable hole, and a regular bit for the pilot hole).

THIS END UP FOR **CEILING** MOUNT

Ø1/8"

Ø1/8"

Pivot pilot hole

Cable hole

Ø11/16"

THIS END UP FOR **WALL** MOUNT

Correct | Incorrect

SAFE SF FLEET | SAFE SF FLEET

9. Place the bracket on the mounting surface, in the orientation and pivot/pan position identified above.

10. Use the two #10 ¾" self-drilling screws to attach the bracket to the mounting surface.
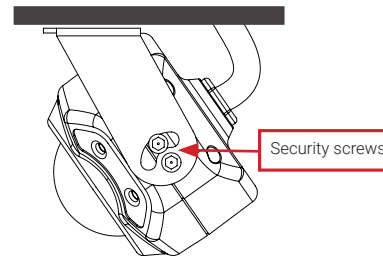
Step 4: Connect the Camera

1. Connect the camera cable to the extension harness through the panel cable hole.

   Important: Ensure the extension harness has a blue band in front of the connectors, indicating it is AHD-compatible.

2. Connect the extension harness's 2x3 Microfit connector to a compatible digital video recorder.

②

To video recorder

①

3. Use the grommet on the camera cable to plug the hole in the vehicle panel.

Step 5: Install the Camera

Use two security screws on each side to attach the camera housing to the mounting bracket (*leave the screws finger-tight*).

Security screws

Step 6: Aim the Camera

1. With the camera connected to the recorder and both powered on, access the recorder using a monitor connected to the local video out.

2. Set the camera's tilt position.

3. Use the supplied Torx key to tighten the 4 security screws.

> **Warning: Do not Open the Camera**
>
> Adjust the camera on the bracket only. Opening the camera housing voids the warranty.

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