

Owner's / Installation Manual



200FR Performance Series Ceiling or Dash Mount Front /Rearview Camera



Mounting the Camera from the Ceiling

Front View

Rear View

- 1) Select a position to mount the camera that is free of obstructions and moving parts and has a proper viewing angle of the desired area around the vehicle. The lower camera will angle toward the driver, the upper camera will look forward at the road.
- 2) Once you have selected the position with a clear front view, use the upper Ram Mount plate as a template to drill your screw holes. Secure the upper Ram Mount to the metal headliner and route camera cables above the headliner and toward the A-pillar.

Mounting the Camera on the Dash

- 1) Remove the cameras from the mount, and flip them for Dash mounting. The forward facing camera should be higher than the camera facing the rear. Select a clear, flat area near the centerline of the dash and mark the screw holes on the mounting plate. Secure the Ram Mounting plate with appropriate fasteners (not supplied), and mount the camera to it.
- 2) Route the camera cables, then angle the lower camera towards the driver, and the forward facing camera toward the center of the driving lane in front of the vehicle

Maintenance

Although this Camera requires little care, you can still maintain its condition and performance by following these steps: * Occasionally clean the camera lens with damp soft cloth. Should you experience any problem with the camera please refer to the troubleshooting guide below prior to returning your camera for repair. *Note: The user should not attempt to service the unit beyond that described in the operating instructions. All other servicing should be referred to qualified personnel.*

Troubleshooting

Symptoms	Solutions
Cloudy Image	Clean Dirty Camera Lens
No Power / Image	Check Power Connections
Upside Down Image	Check for the position of the Camera label, it needs to be on the down side, loosen, and rotate Camera.
Unstable Image	Check Mounting Hardware and Camera Power Connection for tightness

Specifications

Road Camera Image Sensor:	1/2" CCD	Cab Camera Image Sensor:	1/2" CCD
Resolution:	768 x 582	Resolution:	768 x 582
Lens:	f/2.5mm	Lens:	f/1.7mm
Lens Angle:	96° x 70°	Lens Angle:	81° x 62°
Lux:	0 Lux (LED on)	Lux:	0 Lux (LED on)
Microphone:	Yes	Microphone:	No
IP Rating:	IP68	IP Rating:	IP68
DC Power:	12V	DC Power:	12V
Operating Temperature:	-30° ~ 70° C	Operating Temperature:	-30° ~ 70° C
		IR Range:	45ft

Warranty and Support Information

Subject to the provisions described below, this CT product is protected for 1 year against defects in material and workmanship. Should a product fail to perform as described above within the warranted period, it will be repaired or replaced with the same or functionally equivalent product by CT. This warrant does not apply if, in the judgement of CT, the product fails due to damage from shipment, handling, storage, accident, abuse or misuse, or if it has been used or maintained in a manner not conforming to product manual instructions, has been modified in any way. Repair by anyone other than CT or an approved agent will void this warranty. The maximum liability of CT under this warranty is limited to the purchase price of the product covered by the warranty. All defective products should be returned to CT with shipping charges prepaid. CT will not accept collect shipments.