

NCDOT ARRA Vehicle Camera Project

Presented by:

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Project Description

- NCDOT ARRA project to add camera systems to approximately 1600 community transportation vehicles.
- Committee comprised of NCDOT officials and operators worked on this project.
- Vendors were allowed to participate in this open selection process.
- Two sites were chosen to test equipment- ICPTA and ICATS.
- Testing was concluded on October 15, 2010

Vendors

- Each vendor was allowed to install their equipment on-board two vehicles- one LTV with wheelchair lift and one Lift equipped Conversion Van.
- Initial scope called for three cameras on the Conversion Van with Lift, and four cameras on-board the LTV.
- During the project the scope was changed to four cameras on each vehicle type.

Vendor Requirements

- Clarity of views, durability, and easy of use playback features were conditions set out to be tested.
- Wanted hard drives on the vendor's vehicle DVR to capture at least one week minimum of normal operations recording.
- Continuous recording of video and audio
- Map and GPS coordinates
- **Vehicle Speed**
- G-Force and panic button (driver) tagging
- Secured on vehicles with management only access
- Test for a minimum of 15 workdays
- Wi-Fi capable downloads, or live video recording if requested by a system.

Participating Vendors

- AngelTrax
- REI
- SEON
- Roscoe Vision
- Apollo
- Fortress

Why Cameras?

- Assist in the investigation of complaints and accidents.
- Serves as on-board tool for driver evaluations/ride-alongs
- Driver Training
- Verifies that drivers are following proper procedures in areas such as DVI reports (pre-trip lift checks), wheelchair loading/unloading and securement, etc.
- Verification of customer service requirements
- Assists in helping us determine what is really going on in our vehicles
- Ability to pin-point the exact time and location an incident has occurred.
- Protects the bus driver so they can fully focus on driving

Four Camera Views

- Wheelchair Lift- deployed to the ground
- Driver and Passengers
- Passenger Entry Door
- Windshield View

Wheelchair Lift Deployed to Ground



Driver and Passenger View



Passenger Entry Door



Driver Front Windshield View



Actual Camera Video

For ease we are showing only a few vendors saved clips