

Addendum I

Laredo Independent School District

Bus Security Specifications

February 8, 2010

I. Scope and Intent

Laredo Independent School District is interested in accepting sealed proposals for an in-vehicle Digital Video Recording (DVR) System for the visual monitoring of rider and driver activity in district school buses and other vehicles, with optional Global Positioning System (GPS) tracking capabilities. There will be three (3) cameras per bus (ex. Front to Rear, Rear to Front, Mid Point and Driver/Stairwell, etc). Not to exceed 125 School Buses/Vehicles.

II. Specifications

A. DVR SYSTEM Minimum Specifications:

- Standalone mobile DVR for capturing video and audio of bus riders and drivers. System can also record geographic location data that is time stamped.
- All recorded information must be stored on removable, shock-resistant hard disk storage tray or an optional Compact Flash card.
- USB 2.0 Port for playback of recorded video and data downloading
- Each DVR system can be optionally outfitted with a GPS receiver and cellular modem allowing online and offline tracking.
- GPS information and alarm-driven image snapshots can be sent back to the server over the mobile data network.
- Still image transmission to server
- SMS alarm notification to cell phones and or email address
- System integrates with navigation/tracking software for live tracking of vehicle and monitoring of alarms and viewing image transmissions
- Removable hard disk
- MPEG-4 compression
- Minimum operating temperature range with CF Card: -10~+70 °C
- Minimum operating temperature range with fan less HDD: 5~+55 °C
- Fan less design
- Low power consumption: Max: 12W

- Back up via CF card, USB, or LAN
- Watch dog function
- Overwrite function
- Motion/Video loss/Alarm/Pre/Post recording modes
- Vandal-resistant “dome” and other video cameras sufficient to capture both student and driver activities
- 2.5 Grms (5 ~ 500 Hz) of pattern anti-vibration design
- System can be outfitted with optional vandal-resistant DVR lockbox

B. Optional DVR “Live View” Minimum Specifications

- System can optionally be outfitted with ruggedized PC and 3G air card module for remote viewing of live video streams from all bus-mounted cameras in a particular bus at a time.

C. Optional Vehicle Tracking Software and Hardware Minimum Specifications:

System can optionally be outfitted with GPS tracking and locating system with the following specifications:

- Must produce records that can be accessed only on the internet using a secure user name and password.
- Must allow multiple users to access to view real time and historical data at the same time.
- Must save all data on co-located servers for the duration of one year and allow access to older data based off-site beyond that point.
- Records stored for at least 3 years and accessible for at least 12 months.
- Scheduled event reports/records can be sent via e-mail.
- Must allow users to export all data records using Microsoft Excel and Adobe Acrobat.
- System must be compatible with Windows 2000, XP, Windows 7, Internet Explorer 6 & 7 or higher and Mozilla Firefox.
- Antenna can be mounted internally or externally.
- Device can be mounted in either the horizontal or vertical position, must be inside the vehicle and concealed.
- Device must be able to integrate with major radio frequency identification “RFID” readers.
- Must provide MILEAGE records using the ignition switch or other event trigger of the vehicle to indicate a start and stop session. Report must include a start time and date, physical start location with hyperlink to interactive map, physical stop location with hyperlink to interactive map, end time and date, editable comment section, and record delete feature.