

REQUEST FOR QUOTATION	<p style="text-align: center;"><b>TROY SCHOOL DISTRICT</b></p> <p style="text-align: center;">1140 RANKIN, TROY, MICHIGAN 48083</p> <p style="text-align: center;">248-823-4052</p> <p style="text-align: center;">FAX: 248-823-4077</p>	REQUISITION
No. <b>9506</b>		
DUE DATE <b>4/14/08</b> NO LATER THAN <b>3 p.m.</b>		DATE <b>3/28/08</b>

**REQUEST FOR QUOTE – NOT AN ORDER**

THIS FORM MUST BE UTILIZED WHEN RESPONDING TO THIS REQUEST  
 BID ENVELOPE ENCLOSED

**THE RFQ NUMBER MUST APPEAR ON ALL QUOTATIONS AND RELATED CORRESPONDENCE, THIS IS NOT AN ORDER**

Quantity	DESCRIPTION	UNIT PRICE	AMOUNT
	<p>Please supply us with your bid to furnish the Troy School District with <b>DIGITAL BUS SURVEILLANCE SYSTEM</b>, per attached specifications</p> <p style="text-align: center;">Copies of the bid are available at:  <a href="http://www.troy.k12.mi.us/purchasing/items_out_for_bid.htm">www.troy.k12.mi.us/purchasing/items_out_for_bid.htm</a></p> <p style="text-align: center;">Bid recaps will be available at:  <a href="http://troy.k12.mi.us/purchasing/index.htm">troy.k12.mi.us/purchasing/index.htm</a></p> <p style="text-align: center;"><u>FACSIMILE BID IS NOT ACCEPTABLE</u></p> <p>Bids will not be accepted if submitted after the deadline specified (local time) in the advertisement to bid or in the information to bidders. The late submission of a bid makes the bid nonresponsive and is a material defect which shall not be waived by the Board of Education. Delays in the mail will not be considered. All Late bids in the mail will be returned to the bidder unopened.</p> <p>Proposal for the submission of alternatives by vendors will be accepted and reviewed. However, if any substitution or departure is not clearly noted and described, it will be understood that the bid intends to exactly meet the specifications.</p> <p>The Board of Education shall be the sole judge as to whether the proposed goods are "equal" or "approved". Quotations must be mailed or delivered to the Purchasing Office, 1140 Rankin, Troy, MI 48083 no later than 3 p.m. on the date shown above. Michigan State Sales and Use Taxes and Federal Excise Taxes do not apply unless otherwise indicated. Exemption certificates will be furnished when necessary. This request imposes no obligations on the buyer. The Board of Education reserves the right to accept or reject any or all bids or to split awards by items or to accept bids, which will best serve the Board of Education.</p>		

**THIS AREA MUST BE FILLED IN**

DELIVERY TIME	PRICES FIRM FOR	NAME OF COMPANY	TELEPHONE NO.
TERMS		NO. & STREET	FAX #
FOB DELIVERED	ALL DELIVERY CHARGES MUST BE INCLUDED IN PRICES SHOWN	CITY, STATE & ZIP CODE	E-MAIL
CONTACT PERSON (PLEASE PRINT)		SIGNATURE	DATE

**AFFIDAVIT OF BIDDER**

The undersigned, the owner or authorized officer of \_\_\_\_\_(the “Bidder), pursuant to the familial disclosure requirement provided in the \_\_\_\_\_ (the “School District”) advertisement for construction bids, hereby represent and warrant except as provided below, that no familial relationships exist between the over(s) or any employee of \_\_\_\_\_ and any member of the Board of Education of the School District or the Superintendent of the School District.

List any Familial Relationships:

**BIDDER:**

\_\_\_\_\_

By: \_\_\_\_\_

Its: \_\_\_\_\_

STATE OF MICHIGAN    )  
  )ss.  
COUNTY OF \_\_\_\_\_)

This instrument was acknowledged before me on the \_\_\_\_\_ day of \_\_\_\_\_, 2008, by \_\_\_\_\_.

\_\_\_\_\_  
\_\_\_\_\_, Notary Public  
\_\_\_\_\_County, Michigan  
My Commission Expires: \_\_\_\_\_  
Acting in the County of: \_\_\_\_\_

# Troy School District Bus Surveillance System Bid 9506

The Troy School District is seeking qualified bids for the supply and installation of school bus security camera system. Awarded vendor shall be responsible for the supply of specified components, complete installation and training of district personnel in the operation of these units. At this time, the district is seeking five (5) complete units (camera, lockbox, mounting, etc.) and an additional five (5) decoy boxes which can be converted into fully functional monitoring systems as required by transportation personnel.

	Unit Price
Radio Engineering Industries (REI) Part # R-1001 Mobile Digital Video Recorder System	\$ _____
Shipping Cost	\$ _____
Installation	\$ _____
Training	\$ _____
REI Part # 710133 Lock Box	\$ _____
Shipping Cost	\$ _____
Installation	\$ _____
REI Hybrid Camera System (includes Pt # 512002, #512168, #710139, # 710133)	\$ _____
Shipping Cost	\$ _____
Installation	\$ _____

Troy School District  
Bus Surveillance System  
Bid 9506

**Specifications – Radio Engineering Industries Bus-Watch System or Equivalent Alternate**

Mobile DVR

- Fanless: The DVR must be fan-less, with the ability to self regulate temperature of the system (i.e. no moving parts)
- Recording Medium: 2.5" Removable Hard Disk Drive Module
- Display Capability: On Screen Display and embedded video stream data
- GPS: Time Synchronization, Latitude, Longitude, Speed, Heading & Mapping
- Video Input: 4 Channel Inputs, 1V pp / 75 ohm
- Video Output : 2x Composite Video, 1x Ethernet and 2 x USB 2.0
- Image Resolution: 720 (H) x 486 (V)
- Video Compression: MPEG-4 (8 quality settings)
- Frame Rate: 1 to 30 fps Selectable
- Audio Input: 4 independent channel inputs
- Recording Modes: Continuous, Ignition, Scheduled & Event Triggered
- Playback: Search by Alarm, Date, Time & Camera
- Video Loss Detection

Hi-Res Infrared Camera

- Choice of Fixed Lens: 2.8mm, 4mm, 6mm, 8mm
- Color, Day/Night with Audio
- Camera Dimensions: 3.44"W x 1.90"D x 1.93"H
- Mount Bracket Dimensions: 3.56"W x 1.36"D x 2.36"H
- Heavy Duty Cast Metal Housing, Metal Mount Bracket Included
- 12 Volt DC
- Manual Pan/Tilt: 50 Degree Pan (when installed)
- Weight: 8 oz.

Advertisement System

- Video Playback format: MPEG
- Video Out: BNC Out on the back panel, RCA Out on the front panel
- Play List Method: By Sequence & Rolling Message Displaying
- Updating Method: Removable Hard Drive, Ethernet, and USB

Input / Output

- 2 x USB 2.0 Ports (one Host, one Slave)
- 1 x 10/100base-T Ethernet Port
- 8 x Vehicle Sensor Inputs
- 1 x GPS Input
- 1 x Accelerometer Input
- 1 x Transmission Pulse Speedometer Input

## Environment

- Relative Humidity: 10%~95% at 40.C, Non-Condensing
- Operating Temp: -40C ~ +65C
- Shock: 225Gs 2ms (Operating) / 900Gs 1 ms (Storage / Transit)
- Vibration: 1.0G, 5 ~ 500Hz (Operating), 5.0G, 5 ~ 500Hz (Storage / Transit)
- Power Requirement: 12VDC @ 2A / 24VDC @ 1A
- Power Consumption: 24W Maximum
- EMC and Safety: CE, FCC

## Features:

- 80 GB Hard Drive
- Ultra compact extruded aluminum housing, low weight, high temperature and vibration resistant
- Low-voltage, low-current architecture designed for harsh mobile environments
- USB removable hard drive modules with tamper-resistant lock and secure controls
- All DVRs fully support NTSC and PAL, Fahrenheit and Celsius, KM/H and MPH
- Communications are supported through a TCP / IP network interface and a USB connection to PCs
- Each DVR comes with a hand-held IR remote control with on-screen display (OSD) for configuration and control of the DVR
- The DVR features a 2.5" removable mobile HDD module with internal anti-vibration and shock resistance
- 4 channels for video input, full-motion (30fps/camera) continuous video recording and display. 4 channels for high-fidelity, digitally recorded, 4 independent synchronized audio channels matched to 4 independent video channels
- Secure, constant recording while system is powered with event bookmarks for easy event searching
- Utilizes MPEG-4 video compression for high video quality, low storage requirements and long record times.
- User-selectable settings for quality and audio record enable / disable for each video channel
- Multi-level password protection for settings, playback, remote access and more
- Integrated and filtered power supply for cameras, sensors, relays and other accessories
- Multiple alarm inputs with selectable pre-alarm and post-alarm recording
- Full event logging of every operation controlled by the DVR
- TV output channel for recorded, live and advertised video

## Video Viewing

- Streaming video output for advertising, entertainment and information
- DVD-quality streaming audio/video channel with independent NTSC or PAL television output
- Convenient HDD, USB or TCP / IP media updating and status file downloading
- Simultaneous and independent operation of DVR and streaming advertising

#### Video Retrieval and Archiving

- Ethernet and USB ports on the front panel for easy video retrieval on the vehicle with a notebook computer
- Two sets of RCA video and stereo audio outputs for monitor viewing on the vehicle
- USB 2.0 connections on both DVR and removable hard drives for fast file transfer utilizing PC-based file formats
- Easy to use PC-based software application for playback, file transfer, archiving management and video file format conversion
- Vehicle management PC software interprets audio, video and vehicle data for driver and vehicle use assessment
- Video event search software allows intelligent searching of video based on event information

#### Supplemental Data and Driver Management Modules

- External GPS antenna module for embedded digital information of GPS location, speed, heading and time
- External 3-axis inertia sensor for embedded digital information or trigger of video-matched motion events for accident reconstruction

#### **Specifications – Radio Engineering Industries Lock Box or Equivalent Alternate**

Dimensions: 8.69" W x 5.3" H x 15.93" D

Weight: 10 lb 14 oz

Construction: 16 gauge steel, full length piano hinge, barrel lock key

Finish: powder coated (provide color options)

Requirements: Must fully integrate with above specified digital surveillance system

#### **Specifications – Radio Engineering Industries Hybrid Camera System or Equivalent Alternate**

- 1) The hybrid system must be able to convert into a full functioning system in a simple and efficient method.
- 2) Lock Box must utilize a piano door hinge for easy accessibility.
- 3) Camera must be protected in a heavy duty, cast metal housing with metal mounting bracket included.
- 4) Camera lens must be a fixed lens.
- 5) Camera must have an operating temperature range of -20 Degrees C to 50 Degrees C.
- 6) Camera must utilize an automatic Back Light Compensation (BLC) that allows for night-vision during low-light operation.
- 7) Camera must operate off of 12 Volt DC and draw 240mA or less.

**TROY SCHOOL DISTRICT  
 BID# 9506  
 BUS SURVEILLANCE SYSTEM**

	<b>Anticipated Quantity</b>	<b><u>Unity Bus Parts</u></b>		<b><u>Cynergy Wireless Products</u></b>		<b><u>Seon Mobile Surveillance</u></b>	
Mobile Digital Video Recorder	5	\$ 1,225.00	\$ 6,125.00	\$ 1,552.50	\$ 7,762.50	\$ 1,295.00	\$ 6,475.00
Shipping (recorder)	5	included		included		\$ 25.00	\$ 125.00
Installation (recorder)	5	\$ 250.00	\$ 1,250.00	\$ 250.00	\$ 1,250.00	\$ 200.00	\$ 1,000.00
Lock Box	10	\$ 129.00	\$ 1,290.00	\$ 187.50	\$ 1,875.00	included with recorder	
Shipping (Lock Box)	10	included		included		included	
Installation (Lock Box)	5	\$ 50.00	\$ 250.00	\$ 50.00	\$ 250.00	included	
Hybrid (decoy) System	5	\$ 430.00	\$ 2,150.00	\$ 1,615.50	\$ 8,077.50	\$ 315.00	\$ 1,575.00
Shipping (Decoy)	5	included		included		\$ 25.00	\$ 125.00
Installation (Decoy)	5	\$ 250.00	\$ 1,250.00	\$ 300.00	\$ 1,500.00	\$ 200.00	\$ 1,000.00
Training		Free		Free		Free	
Additional Cameras		N/A		N/A		\$ 150.00	optional
Stand Alone Infrared Illuminator		N/A		N/A		\$ 95.00	optional
	<b>TOTAL</b>		<b>\$ 12,315.00</b>		<b>\$ 20,715.00</b>		<b>\$ 10,300.00</b>

**NOTE:** The bid from Seon is for an alternate camera system.

Capital City Intl - No Response  
 Cardinal Bus Sales - No Response  
 CATS Co - No Response  
 Safety Vision - No Response