REQUE QUOT	ST FOR ATION				RE	QUISITION
No.	9661		TROY SCHOOL DISTRICT			
DUE DATE	NO LATER T	HAN	1140 RANKIN, TROY, MICHIGAN 48083			
2-24-10		3 p.m.	248-823-4052			
			FAX: 248-823-4077		DATE	02-09-10
			REQUEST FOR QUOTE – NOT AN ORDER			
		THIS FORM	MUST BE UTILIZED WHEN RESPONDING TO THIS REQUEST BID ENVELOPE ENCLOSED			
THE R	FQ NUMBE	R MUST APPEAR	ON ALL QUOTATIONS AND RELATED CORRESPONDENCE	E, THIS IS N	OT AN	ORDER
Quantity			DESCRIPTION	UNIT PRI	CE	AMOUNT
		oply us with your bi iing Boxes for Scl				
		Со				
	ww	w.troy.k12.mi.us/				
		Е				
	ww	w.troy.k12.mi.us/p				
	bidders. The la	accepted if submitted after the submission of a bid ma tion. Delays in the mail wi				
		e submission of alternative oted and described, it will b				
	be mailed or de Michigan State will be furnished	elivered to the Purchasing Sales and Use Taxes and d when necessary. This re	judge as to whether the proposed goods are "equal" or "approved". Quotations must Office, 1140 Rankin, Troy, MI 48083 no later than 3 p.m. on the date shown above. I Federal Excise Taxes do not apply unless otherwise indicated. Exemption certificates equest imposes no obligations on the buyer. The Board of Education reserves the right it awards by items or to accept bids, which will best serve the Board of Education.			
		THIS ARI	EA MUST BE FILLED IN			
DELIVERY TIME PRICES FIRM FOR		PRICES FIRM FOR	NAME OF COMPANY	TELEPHONE NO.		
TERMS		<u> </u>	NO. & STREET FAX #			
ALL DELIVERY CHARGES FOB MUST DELIVERED BE INCLUDED IN PRICES SHOWN			CITY, STATE & ZIP CODE	E-MAIL		

DATE

SIGNATURE

CONTACT PERSON (PLEASE PRINT)

Note: All bidders are specifically reminded that a completed Affidavit of Bidder (Familial Disclosure) MUST be completed and submitted with the bid response. Failure to include a completed copy will be grounds for disqualification of bid. The Affidavit of Bidder is required to be notarized for construction bids only. All others only require completion and signature.

AFFIDAVIT OF BIDDER

The undersigned, the owner or authorized o (the "Bidder), pursuant to the familial disclosure re (the "School District") advertise	quirement provided in the
represent and warrant except as provided below between the over(s) or any employee of	_
School District or the Superintendent of the School	mber of the Board of Education of the District.
List any Familial Relationships:	
	BIDDER:
	By:
STATE OF MICHIGAN)	Its:
COUNTY OF)ss.	
This instrument was acknowledged before me on the by	day of, 2010,
	,Notary Public
	County, Michigan
	My Commission Expires:
	Acting in the County of:

Troy School District Bid # 9661 School Bus Security Cameras

The Troy School District is seeking qualified vendors to provide and install digital security cameras on District owned school buses. The District is seeking unit prices for both the camera system and the mounting boxes, with the intent to install as many units as our budget will accommodate. Responding vendors are asked to provide pricing for individual units as well as bulk purchases. To maintain consistency and compatibility, the following specifications for camera and mounting boxes/hardware are applicable:

Brand

SEON EXPLORER MX4 SYSTEM or other compatible system incorporating the specifications listed below. Bidders proposing alternate make/model of camera and/or mount must be willing to provide, free of cost, a test unit for District's usage. Such unit to be mounted within District owned bus on trial basis for not less than five (5) school days.

Digital Video Recorder (DVR) Minimum Specifications

- DVR shall record \4 independent channels of video simultaneously <u>"Switching"</u> systems are not acceptable
- DVR must have dual stream for lower bandwidth applications for all video channels. Each channel of video must record two independent video streams; each stream shall be independently configurable for resolution. The purpose of this feature is to allow for high quality recording at all times with the ability to stream the second channel of video through lower bandwidth transmission mediums
- DVR must support data storage on 2.5" mobile ruggedized hard drives
- DVR hard drive must connect to a PC or laptop via a USB cable
- DVR hard drive must be hot-swappable, and mounted in a removable, locking carrier
- DVR must be able to transfer recorded video and audio to a removable USB Flash drive
- DVR must offer a "One Touch Download" feature to download recordings with a single key press
- DVR must be capable of both vertical and horizontal mounting, including under seat
- DVR must have a wiring consolidator for ease of installation
- Must record 4 channels of audio with two additional audio inputs

• Input voltage: 8 - 32 VDC

Recorded Resolution: Selectable 720 x 480, 720 x 240 or 360 x 240

Compression: MPEG4

Recorded Quality Settings: 4 levels, adjustable for each channel

Recording Rate: DVR must be capable of recording 4 independent

channels of video at a resolution of 720 x 480 and at

an aggregate frame rate of 120FPS (30FPS/

camera @ D1 Resolution

Hard disk capacity: 80 GB, 120 GB, 160 GB or higher

Display modes: Single camera, Quad

• Playback rate: 1/32 to 64x

• Search function: By time and date or event, alarms, signals

User interface: OSD with remote control or pointing device, web

browser, vMax software suite

 DVR must include Ethernet network port (RJ45) for connection to a Local Area Network (LAN) or wireless modem

- DVR must support industrial Wi-Fi networking with Smart-Reach Mobile (wireless bridge) or equivalent with roaming capability. Consumer grade wireless bridge is not acceptable.
- DVR must have alarm settings and programmable by recording frame rates, quality per video channel
- DVR must have configurable protected memory for alarms
- DVR must have programmable timer record settings with selectable frame rates and image quality
- DVR must have multilevel user access control and must be password protected
- Records and displays time and date
- Built-in fan (reversed to draw clean filtered air into DVR); field replaceable filter
- Field upgradeable firmware and hard drives
- Built-in real time clock with automatic Daylight Savings Time adjustment (selectable on/off)
- Automatic Daylight savings start/end dates and times setting must have the option to be configurable
- All external signal, speed, GPS and CAN inputs must be connected through a wiring consolidator module, which can be installed in a separate location from the DVR.
- Supports an optional GPS receiver for recording and displaying vehicle position, direction and speed
- Geo-fencing with GPS receiver
- Geo-fencing parameters must be configurable

- Records and displays vehicle speed using optional speed harness; external speed conditioner <u>NOT</u> required
- Records and displays up to ten functions (signals) including brake lights, stop lights, warning lights, turn signal, and stop arm, wheelchair lift, etc. (user programmable)
- Compatible with J1939 (CAN bus) records and displays up to 10 signals
- On screen voltage recording
- Temporary power button for operation and programming when bus is off
- Automatic repeat-record when hard drive is full (user selectable on/off)
- Delay Off: Records after bus turned off 0 60 min (User selectable)
- Delay On: Start Record can be delayed for 0 60 min (User selectable)
- High and Low temperature protection: the DVR will power up but will not start recording until a safe internal temperature is reached
- Programmable monitor output for guad view or toggle view of video
- Built-in internal heater standard
- Smart-Start power up protection to prevent damage from voltage transients
- Front panel video output for easy setup and programming
- Back-up battery saves settings for 10 years without powering the unit
- Recorded video and audio can be transferred to a PC by means of the hotswappable hard drive or USB flash drive or wireless transmission via Smart Reach mobile (industrial wireless bridge) or equivalent
- Software is provided at no extra charge to save recordings in a proprietary EDS format or a standard AVI format, which can be played back on a standard PC running Windows XP, XP Pro or Vista
- 1-year parts and labor warranty.

DVR Enclosure Minimum Specifications

- 18-gauge steel enclosure, powder painted finish with tamper proof lock
- Lock box and DVR are integrated with removable locking door for easy access to the DVR. **Separate lock box is not acceptable.**
- Door must have rounded edges for safety. <u>Straight edges are not acceptable</u>
- DVR is attached to a low profile mount plate
- Must be capable of vertical, sideways, and horizontal mounting
- Dimensions: 2.5 " x 7 " x 9.5" (HxWxD)

Other Requirements

• Decoy systems must use live cameras

Installation

- Responding bidder MUST provide complete installation by factory trained and authorized technicians
- Installation MUST be performed at the District's Transportation facility located at 120 Hart Street, Troy, MI 48098 unless specifically agreed to by Troy School District

References

 Responding bidder MUST provide minimum of three (3) references, (public school systems preferred) where product has been provided within last 2 years.

Troy School District Bid # 9661 School Bus Security Cameras

Make/model of Camera proposed	
Unit cost per camera (less than 5 units)	\$
Unit cost per Enclosure (less than 5 units)	\$
Unit cost for installation (less than 5 units)	\$
Other Costs (Must Specify	\$
Bulk purchase Costs	
Unit cost per camera (6 to 10 units)	\$
Unit cost per Enclosure (6 to 10 units)	\$
Unit cost for installation (6 to 10 units)	\$
Other Costs (Must Specify	\$
Unit cost per camera (10 to 20 units)	\$
Unit cost per Enclosure (10 to 20 units)	\$
Unit cost for installation (10 to 20 units)	\$
Other Costs (Must Specify	\$

Unit cost per camera (21 to 30 uni	ts)	\$
Unit cost per Enclosure (21 to 30	units)	\$
Unit cost for installation (21 to 30	units)	\$
Other Costs (Must Specify		\$
Unit cost per camera (31 to 50 uni	ts)	\$
Unit cost per Enclosure (31 to 50	units)	\$
Unit cost for installation (31 to 50	units)	\$
Other Costs (Must Specify		\$
Unit cost per camera (51+ units) Unit cost per Enclosure (51+ units)	,	\$ \$
Unit cost for installation (51+ units)	\$
Other Costs (Must Specify		\$
CompanyRepresentative		
Title	Phone	
Email	Fax	
Address		

Troy School District Bid # 9661 School Bus Security Cameras

REFERENCES

Company:			
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Company:			
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Company:			
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	Unity School Bus Parts	247 Security Inc.	Fortress Systems International		
Make/Model of Camera	MX4B/SQ306A1	514W-004	FMobile 1CX6M-4CHGP		
	Unit Cost	Unit Cost	Unit Cost		
Camera (less than 5) Enclosure (less than 5) Installation (less than 5)	1,335.00 complete system incl 200.00 complete system	2,404.00 ea - 310.00 ea	177.00 1,152.00 w/1 cam 267.00		
installation (less than 5)	200.00 complete system	310.00 ea	207.00		
Other	1,070.00 DVR system only	-	439.00 optional Wi-Fi Download		
	320.00 Decoy system only 175.00 decoy install only				
Camera (6-10 units) Enclosure (6-10 units)	1,300.00 complete system incl	2,372.00 ea	177.00 1,152.00 w/1 cam		
Installation (6-10 units)	200.00 complete system	310.00 ea	267.00		
Other	1,070.00 DVR system only		optional Wi-Fi 439.00 Download		
	320.00 Decoy system only 175.00 decoy install only				
Camera (10-20 units)	1,280.00 complete system	2,340.00 ea	177.00		
Enclosure (10-20 units)	incl	- -	1,152.00 w/1 cam		
Installation (10-20 units)	200.00 complete system	300.00 ea	267.00		
Other	1,070.00 DVR system only		optional Wi-Fi 439.00 Download		
O U.O.	320.00 Decoy system only		100.00 Bommoad		
	175.00 decoy install only				
Camera (21-30 units) Enclosure (21-30 units)	1,280.00 complete system incl	2,290.00 ea	177.00 1,152.00 w/1 cam		
Installation (21-30 units)	200.00 complete system	300.00 ea	267.00 W/T Calli		
Other	1,070.00 DVR system only		optional Wi-Fi 439.00 Download		

	Unity School Bus Parts	247 Security Inc.	Fortress Systems International
	320.00 Decoy system only 175.00 decoy install only		
Camera (31-50 units) Enclosure (31-50 units) Installation (31-50 units)	1,245.00 complete system incl 200.00 complete system	2,240.00 ea - 290.00 ea	177.00 1,152.00 w/1 cam 267.00
Other	1,070.00 DVR system only 320.00 Decoy system only 175.00 decoy install only	-	optional Wi-Fi 439.00 Download
Camera (51+ units) Enclosure (51+ units) Installation (51+ units)	1,195.00 complete system incl 200.00 complete system	2,209.00 ea - 275.00 ea	177.00 1,152.00 w/1 cam 267.00
Other	1,070.00 DVR system only 320.00 Decoy system only 175.00 decoy install only	-	optional Wi-Fi 439.00 Download

Bearcom: No Response

Brinker Tech Team: No Response

Complete Communications Inc.: No Response

Cynergy Wireless: No Response

	Fortress Systems International		Gatekeeper Systems	A Parts Warehouse	
Make/Model of Camera	FMobile FM411- 4CHGPS-HSD		N404	FMobile 1CX6M-4CHGP	
	Unit Cost		Unit Cost	<u>u</u>	nit Cost
Camera (less than 5)	177.00		\$855.00	177.00	
Enclosure (less than 5) Installation (less than 5)	1,273.00 267.00	w/1 cam	n/a	1,145.00 225.00	w/1 cam
mstallation (less than 5)	207.00		\$300 + \$25/extra camera \$215 extra day/night	225.00	
Other	439.00	optional Wi-Fi Download	cameras; \$90 IR Illuminator; \$150 GPS	425.00	optional Wi-Fi Download
Camera (6-10 units) Enclosure (6-10 units) Installation (6-10 units) Other	177.00 1,273.00 267.00 439.00	w/1 cam optional Wi-Fi Download	855.00 n/a \$300 + \$25/extra camera \$215 extra DN cameras; \$90 IR Illuminator; \$150 GPS	177.00 1,145.00 225.00 425.00	w/1 cam optional Wi-Fi Download
Camera (10-20 units)	177.00		855.00	177.00	
Enclosure (10-20 units)	1,273.00	w/1 cam	n/a	1,145.00	w/1 cam
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Installation (10-20 units)	267.00		\$300 + \$25/extra camera	225.00	
Other	439.00	optional Wi-Fi Download	\$215 extra cameras; \$90 IR Illuminator; \$150 GPS	425.00	optional Wi-Fi Download
Camera (21-30 units)	177.00		855.00	177.00	
Enclosure (21-30 units)	1,273.00	w/1 cam	n/a	1,145.00	w/1 cam
Installation (21-30 units)	267.00		\$250 + \$25/extra camera	225.00	
Other	439.00	optional Wi-Fi Download	\$215 extra cameras; \$90 IR Illuminator; \$150 GPS	425.00	optional Wi-Fi Download

Did 0001	Fortress Systems International		Gatekeeper Systems	A Parts	Warehouse
Camera (31-50 units) Enclosure (31-50 units) Installation (31-50 units)	177.00 1,273.00 267.00	w/1 cam	855.00 n/a \$250 + \$25 extra camera	177.00 1,145.00 225.00	w/1 cam
Other	439.00	optional Wi-Fi Download	\$215 extra cameras; \$90 IR Illuminator; \$150 GPS	425.00	optional Wi-Fi Download
Camera (51+ units) Enclosure (51+ units) Installation (51+ units)	177.00 1,273.00 267.00	w/1 cam	855.00 n/a \$250 + \$25 extra camera	177.00 1,145.00 225.00	w/1 cam
Other	439.00	optional Wi-Fi Download	\$215 extra cameras; \$90 IR Illuminator; \$150 GPS	425.00	optional Wi-Fi Download

Intelligent Choice: No Response LVC Technologies: No Response Technology Solutions: No Response