CITY OF COFFEYVILLE
BOARD OF COMMISSIONERS AGENDA ITEM

MEETING DATE	2/11/2014	
RESOLUTION OR ORDINANCE NUMBER	R-14-09	
AGENDA TITLE	**PURCHASE NEW SURVEYING EQUIPMENT FOR ENGINEERING**	
REQUESTING DEPARTMENT	Engineering	
PRESENTER	Scott Massman, Superintendent of Engineering	
FISCAL INFORMATION	Cost as recommended:	$3,395.00
	Budget Line Item:	
	Balance Available	
	New Appropriation Required:	[x] Yes [ ] No
PURPOSE	The City of Coffeyville currently uses a Topcon GTS 230W Manual Total Station. This instrument has worked well with a SMI data collector for the last 12 years. This data collector has stopped working and cannot be repaired. Unfortunately the product is no longer available. It seems the preferred chose of surveyors in this area is a Carlson Surveyor+. This model can work with either a total station or GPS equipment. It could be at some point the City of Coffeyville would wish to move towards surveying grade GPS equipment. The collector will pay for itself within two topographic surveys. The amount of time saved over conventional methods is substantial.	
BACKGROUND		
SPECIAL NOTES		
ANALYSIS		

PUBLIC INFORMATION PROCESS	
BOARD OR COMMISSION RECOMMENDATION	
STAFF RECOMMENDATION	Purchase a Carlson Surveyor+ data collector from Allen Precision Equipment for $3,395.00
REFERENCE DOCUMENTS ATTACHED	

RESOLUTION NO. R-14-09

A RESOLUTION TO AUTHORIZE A PURCHASE ORDER TO ALLEN PRECISION FOR A CARLSON SURVEYOR+ DATA COLLECTOR FOR THE ENGINEERING DEPARTMENT.

BE IT RESOLVED, by the Board of Commissioners of the City of Coffeyville, Kansas, that the Finance Director be authorized to issue a purchase order to Allen Precision for a Carlson Survey+ Data Collector in the amount of $3,395 for the Engineering Department.

ADOPTED THIS 11th DAY OF FEBRUARY 2014.

_____
David George, Mayor

ATTEST:

_____
Cindy Price, City Clerk

APPROVED AS TO FORM AND LEGALITY:

_____
Paul Kritz, City Attorney

Carlson Surveyor / Surveyor+ Data Collectors

Be the first to review this product

Carlson Software combines advanced functionality, ease-of-use, and sheer capability to make it the first choice in data collection software. Users have the freedom to choose their hardware provider through Carlson Software's support for a variety of RTK GPS and conventional/robotic Total Stations, new and legacy.

Models *

- (●) Carlson Surveyor+ with SurvCE Basic + $3,395.00
- ( ) Carlson Surveyor with SurvCE Basic + $3,195.00

Optional Software upgrades

- [ ] 1 x SurvCE Advanced Roading (requires Basic) + $500.00
- [ ] 1 x SurvCE Robotic Software (requires Basic) + $500.00
- [ ] 1 x SurvCE GPS Software (requires Basic) + $1,000.00

Price as configured: $3,395.00

Qty: 1 Add to Cart

Add to Wishlist Add to Compare Price Match Item

PRICE MATCH GUARANTEE

FREE SHIPPING ON ORDERS OVER $250*
* Exclude nails, paint and flagging

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Product Description Additional Information Reviews Video Rental RFQ

DISPLAY
Type: PXA270
Maximum Clock Speed:
520 Mhz/Surveyor; 624 Mhz/Surveyor+
Both include:

- Real Time Clock
- Battery Warm Swapping Ability
- Microphone
- Speaker

DISPLAY
Type: TFT
Resolution (240×320 pixels): QVGA
Color/Mono: Color
Size: 3.5" diagonal
Both also include:

- Backlight (LCD)

KEYBOARD
Type: Elastomer
Navigation: 9-way (9) navigation pad with center enter
Numeric Keys: 0-9 (10)
Alpha Keys: A-Z (26)
Command/Modifier Keys: 10 – Shift, Tab, Control, 2nd, Escape, Alt, Space, Backspace, Delete
Enter Key: Large, easy to use both right- and left-handed
Left & Right Soft
Function Key: Left Soft Function key loads SurvCE
Windows Key: Displays the Start Menu
Power Key
Backlit Control Keys: Alt-Yellow, 2nd-Blue, Control-Green, Shift-Red
LED Enunciators/Notification: 2 "

ENVIRONMENTAL
Operating Temperature: -30C to +60C
Storage Temperature: -30C to +60C
Humidity: MIL-STD-810F (Designed to this standard)
Water Resistance: IP67
Shock Resistance: MILSTD 810F (Designed to withstand 5-foot drop onto concrete)
Dust Resistance: IP67

ENCLOSURE
Dimensions: 10.2 x 5 x 1.5
Weight: ~ 2 lbs.
Both include:

- Handstrap
- Full-size Stylus
- Stylus Storage
- Tripod Hook
- Magnesium enclosure with

Allen Precision Equipment
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Related Products

Check items to add to the cart or select all

- Touchscreen
- Ability to disable Touchscreen from keyboard

OPERATING SYSTEM WM 6.1
Languages: English, Simplified Chinese, Portuguese, French, German, Spanish
Applications included: All standard WM6 applications (Word Mobile, Excel Mobile, Outlook Mobile, etc.)
Bluetooth Audio: A2DP supported
Speed Switch Utility: Sets processor clock speed to conserve battery

INTERFACE (I/O CONNECTOR)
RS-232 9 pin D: Two DB-9
Bluetooth: 2.0 w EDR
802.11 b/g:
Yes for Surveyor+
No for Surveyor
USB Client: Mini-B connector
USB Host: Full-size USB connector

EXPANSION (Surveyor+ only)
MicroSD Card Slot
Expansion Packs for GPS, cell modem

One LED displays charging status and the second one can be programmed by the application software
Number of keys: 52
BATTERY
Battery Type: LiIon
Battery Packs: Come standard with one (1) battery pack; user can add a second battery pack
Battery Capacity: 3900 mAH (7800 mAH capacity reached when using two battery packs)
Battery Life: 8-10 hours standard (battery life is determined by the number of battery packs used, by the amount of time the backlight is on, the backlight brightness and the type of expansion pack installed)
Charging Plug: Included
Vehicle Charge Adapter: Optional
Warm Swapping: Included

elastomer end caps

WARRANTY

- Electronics: 24 months
- Battery & Chargers: 90 days

AVAILABLE ACCESSORIES
Wall Charger with choice of adapter, Styli, Screen Protectors, Battery Pack Standard, Vehicle Charger, External Battery Charger**EXPANSION PACKS (For Surveyor+ only)**

- 2.5 Cellular Modem – GSM

Leica GS05 GNSS Extended Cap for Leica Zeno 10
$1,000.00

Leica GS06 GNSS Extended Cap for Leica Zeno 15
$1,000.00

Survey Standard to Survey Pro GNSS
$1,200.00

Carlson Surveyor+ with SurvCE Basic
$3,395.00

Completely Ruggedized

- IP67 water & dust resistant; magnesium housing "a full metal jacket"!

More Memory

- Up to 1 gigabyte with option to expand

Compact & Convenient Connections

- 2 styles of USB connections located on top for convenience
- 2 9-pin serial connections located on top for legacy equipment

Easy to Hold and Control

- Just 2 pounds! Key size & location optimized for precise handling

Back Lit Control Keys

- Easily see when quick command keys are activated

Longer Battery Life

- 8-10 hours standard with option to add second battery

Accurate data collection is the basis for any successful project. View Carlson Software's choices with SurvCE for handheld data collectors or SurvPC and Field for rugged PCs. All provide a highly graphical and intuitive user interface that prompts the user so no detail is missed. Carlson data collection software supports the widest range of popular and new release RTK GPS and conventional/robotic total stations or use with Carlson-branded data collectors.

Existing SurvCE users, feel free to visit the resource center: SurvCE.com

You may also be interested in the following product(s)

MicroSurvey DC4 Data Collector
$1,595.00

Related Articles from The Blackboard

Three Things You May Not Know About APE General Manager Tracy Foran ➜

As Allen Precision's General Manager, Tracy Foran oversees the day-to-day operations of APE and the Online Marketplace, but those aren't his only responsibilities. Sometimes he also sweeps the floors and makes the coffee. What else don't you know about Tracy? Continue reading →

Tagged with Tracy Foran, sales, personnel, customer service

Surveying with GNSS (GPS and GLONASS) ➜

GNSS surveys use the signals transmitted by satellites with trajectories such that any point on the Earth's surface can be determined around the clock and independent of weather conditions. The positioning accuracy depends on the type of GNSS receiver, and on the observation and processing techniques used. Continue reading →

Tagged with reference station, CORS, gnss, GPS, surveying

Total Station Buying Guide ➜

What features are important in a total station? How can you choose the best model for your application? Here's everything you need to know about these sophisticated measurement devices

What Is a Total Station?

The total station is one of the most important pieces of equipment you will buy as a modern surveyor or engineer.

A total station is an electronic device used to measure angles and distance. The instrument itself is comprised of an electronic theodolite and an electronic distance meter (EDM) used to read slope distances from the instrument to a defined point.

What to Look for When Choosing a Total Station

When choosing a total station, the first thing to consider is the application. How will the instrument be used? How you will use the equipment will help you determine the angular and distance accuracies you need, as well as range, portability, and ease of setup.

Advantages / Disadvantages of Total Stations

Total stations are known for their accuracy, ease of use, and the ability to quickly collect information. With a total station, multiple surveys can be performed from one setup location, and it is easy to simultaneously take distance and horizontal measurements and calculate project coordinates (x, y, and z or northing, easting, and elevation).

Most Popular Total Station for the Value
For the capability and price, the most popular total stations on the market are the Nikon DTM Series and Nikon NPL Series.

Most Popular Monitoring Total Station

The Leica Nova TS50 high-precision total station and Leica Nova TM50 monitoring station, part of the Leica Nova series, are the most popular options for applications that require the highest level of accuracy.

Highest-Accuracy Total Station
Outside of structural monitoring, the Leica Flexline TS Series is the most popular high-accuracy total station for setting controls or jobs with demanding tolerances.

Most Popular Construction Total Station
Construction total stations are different from survey total stations in the way users lay out points. Where surveyors use distance and angles, contractors and construction professionals typically lay out points based on blueprints or CAD drawings.

Most Popular Surveying Total Station Stakeout
The Leica Flexline TS Series is the most popular survey total station offering the most customizable capabilities to meet your surveying needs. These instruments are available in a wide variety of accuracies and capabilities and are configurable to meet your needs and applications.

Fastest Tracking Total Station
The Leica Viva TS12P is the world's fastest robotic total station. It enables you to search for the prism, acquire the prism, and transmit data from the gun to the data collector faster than any other instrument on the market today.

Tagged with nikon, monitoring, total station accessories, buying guide, robotic total station, total station, surveying, leica geosystems, construction

Behind the Scenes: Meet Donna George →

When you call Allen Precision Equipment or jump in the chat room of the APE Online Marketplace to talk to a sales consultant, there's a good chance you'll be talking to Donna George on the other end. And if it is Donna, you're in good hands! Continue reading →

Tagged with sales, personnel, call, chat, customer service