



## Ocean County Board of Commissioners

OFFICE OF THE  
OCEAN COUNTY COMMISSIONERS

Director John P. Kelly  
Deputy Director Virginia E. Haines  
Commissioner Barbara Jo Crea  
Commissioner Gary Quinn  
Commissioner Joseph H. Vicari

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Toms River, New Jersey  
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### Board Meeting Agenda

Date: December 7, 2022 - 4:00 PM  
Location: Administration Building  
Room 119  
101 Hooper Avenue  
Toms River, NJ 08754

Agenda: Awarding a Contract for the furnishing and delivery of LASER SCANNER to Leica Geosystems, Inc., the sole qualified bidder. (B2022-168)

<b>Official Resolution#</b>	<b>2022001653</b>						
Meeting Date	12/07/2022						
Introduced Date	12/07/2022						
Adopted Date	12/07/2022						
Agenda Item	m-8						
CAF #							
Purchase Req. #	B2022-168						
Result	Adopted						
<b>COUNTY COMMISSIONER</b>	<b>PRES.</b>	<b>ABS.</b>	<b>MOVE</b>	<b>SEC</b>	<b>AYE</b>	<b>NAY</b>	<b>ABST.</b>
Kelly	<				<		
Haines	<		<		<		
Crea	<				<		
Quinn	<				<		
Vicari	<			<	<		

I HEREBY CERTIFY THAT THIS DOCUMENT IS A TRUE, COMPLETE AND ACCURATE COPY OF THIS RESOLUTION, ADOPTED BY OCEAN COUNTY BOARD OF COMMISSIONERS, NJ AT THE MEETING REFERENCED THEREON

*Michelle I. Gunther*

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Clerk Of The Board



## RESOLUTION

December 7, 2022

WHEREAS, on November 22, 2022, pursuant to legal advertisements therefor, sealed bids were received for the furnishing and delivery of LASER SCANNER for the County of Ocean; and

WHEREAS, at the advertised time, one response was received from the following bidder:

Name of Bidder

Leica Geosystems, Inc.

Address of Bidder

5051 Peachtree Corners Circle  
 Norcross, GA 30092  
 (252) 269-2878

; and

WHEREAS, after the receipt and examination of same, the County Purchasing Agent has now recommended to this Board that the sole qualified bid, according to specifications, namely that of LEICA GEOSYSTEMS, INC. be accepted.

NOW, THEREFORE, BE IT RESOLVED by the BOARD OF COMMISSIONERS of the COUNTY OF OCEAN, STATE OF NEW JERSEY, as follows:

1. The Director and Clerk of this Board are hereby authorized and directed to enter into a contract accepting the bid for the furnishing and delivery of Laser Scanner for the County of Ocean, for the contract period from date of award through December 6, 2023, a period of one (1) year or until delivery is complete unless otherwise stated. The County reserves the right to extend the term of the contract pursuant to N.J.S.A. 40A:11-15, as follows:

LEICA GEOSYSTEMS, INC. for three (3) items, to wit:

ITEM NOS. 1, 1a and 1b.

For a Total Lump Sum Award (Items 1 – 1b) of \$128,470.05.

2. Payments for the equipment to be acquired by this contract shall be made upon the approval of vouchers submitted by the successful bidders in accordance with the requirements of the Board of Commissioners and subject to the Board of Commissioners customary procedures. Delivery shall be made upon receipt of a Purchase Order issued by the Ocean County Department of Purchase, upon which delivery locations and needed quantities shall be indicated.

3. Funds for the equipment shall be available within the following funding Sources: Sheriff's Office O.E.

4. The contract number must be placed on all papers, documents, invoices and vouchers pertaining to said contract, the number being B2022-168.

5. BE IT FURTHER RESOLVED that certified copies of this Resolution shall be made available to the County Auditor, County Department of Purchasing, Department of Finance, Sheriff's Office and Leica Geosystems, Inc., the successful bidder.

LEICA GEOSYSTEMS, INC.

PROPOSAL DOCUMENT REPORT  
 Bid No. TBD  
 LASER SCANNER

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total Cost	Comments:
1	ITEM #1 - 3D LASER SCANNER, LEICA RTC360, AS SPECIFIED OR EQUAL.	1	EA	\$103,952.55	\$103,952.55	w/ on-site training, 1yr virtual training access, 1 yr TruView Cloud storage, iPad Pro for remote control.
<b>OPTIONS</b>						
1A	Additional Cloud Storage, As Specified	1	EA	\$9,630.00	\$9,630.00	4 additional years of TruView Cloud storage.
1B	Extended Warranty, As Specified	1	EA	\$14,887.50	\$14,887.50	5yr "Silver" Maintenance package (4 yr extended warranty).
<b>TOTAL</b>					<b>\$128,470.05</b>	

**ITEM #1 - 3D LASER SCANNER, LEICA RTC360, AS SPECIFIED OR EQUAL**

**COMPLIANCE**  
**YES**                      **NO**

**GENERAL**

High-speed 3D laser scanner with integrated HOR spherical imaging system and Visual Inertial System (VIS I for real time registration) New unit shall be compatible with existing Leica Scanner Model P40

                    

**PERFORMANCE**

Data Acquisition: Less than 2 minutes for complete full dome scan and spherical HDR image at 6mm @ 10 m resolution

                    

Real Time Registration: Automatic point cloud alignment based on real time tracking of scanner movement between setups based on Visual Inertial System (VIS) I by video-enhanced inertial measurement unit including Simultaneous Localization and Mapping (SLAM) method.

                    

Double Scan: Automatic removal of moving objects

                    

**SCANNING**

Distance Measurement: High-speed, high dynamic time of flight enhanced by Waveform Digitizing (WFD) technology

                    

Field of View: 360° (horizontal)/ 300° (vertical)

                    

Range: Min. 0.5 up to 130 m

                    

Resolution: three (3) user selectable settings (3/6/12 at 10 m)

                    

Minimum 60 HDR pictures per 360-degree scan

                    

1-minute to capture a full-spherical 5-stop High-Dynamic Range image in any lighting conditions

                    

Automatic removal of moving objects (vehicles, pedestrians) using "double scan" setting

                    

Minimum 3D point accuracy= 1.9mm @ 10m, 2.9mm @ 20m, 5.3mm @ 40m

                    

Maximum Scan Speed -up to 2,000,000 points per second

**ITEM #1 – 3D LASER SCANNER, LEICA RTC360, AS SPECIFIED OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**                      **NO**

**ACCURACY**

Angular accuracy: 18"

Range accuracy: 1.0 mm + 10 ppm

3D point accuracy:

- 1.9 mm @ 10 m
- 2.9 mm @ 20 m
- 5.3 mm @ 40 m

                    

**IMAGING**

Camera: 36 MP 3-camera system captures 432 MPx raw data for calibrated 360° x 300° spherical image

                    

Speed: 1 minute for full spherical HOR image at any light condition

                    

HDR: Automatic, 5 brackets

                    

**NAVIGATION SENSORS**

Video Inertial System: Video enhanced inertial measuring system to track movement of the scanner position relative to the previous setup in real time

                    

Tilt: IMU based, Accuracy: 3' for any tilt

                    

Altimeter, Compass, GNSS

                    

**OPERATION**

On Scanner: Touchscreen control with finger touch, full color WVGA graphic display 480 x 800 pixels

                    

Mobile Devices: Leica Cyclone FIELD 360 app for iPad or Android, or equal, including:

- Remote control of scan functions
- 2D & 3D data viewing
- Tagging
- Automatic alignment of scans

                    

Wireless: Integrated wireless LAN (802.11 b/g/n)

                    

Data Storage: 256 GB exchangeable USB 3.0 flash drive

✓ ITEM #1 – 3D LASER SCANNER, LEICA RTC360, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<b>DESIGN AND EXTERIOR</b>		
Housing Aluminium frame and sidecovers	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Scan mirror fully enclosed in protective housing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dimensions 120 mm x 2"i0 mm x 230 mm/ "i.7" x 9.4" X 9.1"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Weight 5.35 kg / 11.7 lbs, nominal (without batteries)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mounting Mechanism: Quick mounting on 5/8" stub on lightweight tripod	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>POWER</b>		
Two (2) internal, rechargeable Lithium Ion batteries with charge of up to four (4) hours of use	<input checked="" type="checkbox"/>	<input type="checkbox"/>
AC Adapter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>ENVIRONMENTAL</b>		
Operating temperature: -5°C - +40°C	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Storage temperature: -40°C - +70°C	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>SOFTWARE</b>		
Vendor required to provide brand integrated scanner software	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Software shall include:		
1 year - Customer Care Package to existing software for Technical Support and Upgrades (Map360 PRO, or equal)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Point-cloud processing software -		
1 year - Customer Care Package for Technical Support and Upgrades to existing permanent license (Cyclone REGISTER, or equal)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1 year - Customer Care Package for Technical Support and Upgrades to existing permanent license (Cyclone PUBLISHER PRO, or equal)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1 year - Customer Care Package for Technical Support and Upgrades to existing permanent license (Cyclone SURVEY, or equal)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Introduced on: December 7, 2022		
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✓ ITEM #1 – 3D LASER SCANNER, LEICA RTC360, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<b>FEATURES</b>		
Ability to automatically adjust photo capture size relative to chosen point cloud density (Adaptive Resolution -Low, Medium, High)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fully automated, one-button Check and Adjust feature in no more than 6 minutes	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Double scan at one position to calculate angular parameters and angular accuracy (No targets required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>CLOUD STORAGE</b>		
TruView, or equal, Cloud Subscription (250 sp, 1 year) With following configuration:		
• 1 year Subscription: Includes upload of up to 250 positions to TruView Cloud service.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>ACCESSORIES</b>		
Remote control compatible with in field visuals of captured scans	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Minimum of two (2) required storage USS devices or equivalent	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Carbon fiber tripod	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All related cables, chargers, backpack style transportation cases	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All required manuals and documentation paperwork	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>TRAINING</b>		
Four (4) days on-site training	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Unlimited viewing of pre-recorded training material	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Access to online training material/videos hosted online	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Unlimited monthly live virtual classroom sessions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
✓ <b>1A. <u>Additional Cloud Storage</u></b>		
• TruView Cloud Add-on (500 sp).		
• Add-on for TruView Cloud 1 additional year	<input checked="" type="checkbox"/>	<input type="checkbox"/>
✓ <b>1B. <u>Extended Warranty</u></b>		
Option to extend manufacturer's warranty for five (5) additional years.		
Warranty shall include all parts, equipment and maintenance	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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