



## Legislation Text

---

File #: 23-0771, Version: 1

---

### CITY COUNCIL AGENDA ITEM

#### **ACTION REQUESTED:**

Approve the award of Sole Source Procurement 23-187, Leica RTC 360 Laser Scanner, to Collision Forensic Solutions for an amount not to exceed \$144,416.65

**DEPARTMENT:** Police Department

**SUBMITTED BY:** Jason Arres, Chief

#### **BOARD/COMMISSION REVIEW:**

N/A

#### **BACKGROUND:**

Accurately documenting a crime scene or fatal traffic accident takes a significant amount of time and is currently accomplished using traditional mapping methods with tape measures, measuring wheels, cameras, video cameras, and total stations to capture physical evidence. Using these techniques can take hours, or even days, to capture relevant parts of a scene.

A laser scanner can digitally capture the surrounding environment, as well as the shape of physical objects, using a line of laser light. This tool captures the environment, frozen at a moment in time, to include the conditions of the scene and the exact size and shape of items within. The result is a complete digital three-dimensional representation.

The scanning process captures up to two million points per second with scene details down to the millimeter. The laser scanner is more precise than a measuring tape or total station and helps reduce the amount of time to clear a scene while still recording a large amount of data.

Clearing a scene quickly allows staff to process crime scenes faster and with fewer people. Plus, most importantly, the laser scanner captures and preserves the scene as-is which allows officers to not only virtually revisit it but also the ability to create a virtual 3D model for investigators and court personnel.

#### Crime Scene Unit

The Crime Scene Unit logged almost 1,850 hours processing 16 major scenes since 2019. In 2022, the Crime Scene Unit processed over 600 crime scenes of which approximately 50 could have benefited from the use of a laser scanner.

#### Traffic Unit

On average, the Traffic Unit spends four to six hours doing measurements on fatal crashes. The Traffic Unit has investigated 20 fatal traffic accidents since 2019. In 2021, the Traffic Unit processed

seven fatal crashes spending approximately 210 hours processing the scene. In 2022, the Traffic Unit processed three fatal crashes spending approximately 100 hours processing the scene and would have benefited from using this laser scanner on six scenes in 2023 already.

The purchase of the Leica Geosystems RTC360 Laser Scanner would reduce the hours spent processing fatal traffic scenes by 93% and major crime scenes by 85%. The hours saved with the Leica 3D laser scanner would result in not only saving personnel time but also reducing the length of time major roadways are closed.

The Leica Geosystems RTC360 system is also compatible with the department's current traffic system that was purchased in 2019.

**DISCUSSION:**

This Sole Source for the Leica Laser Scanner system is requested for a three-year term from the date of award ending in August of 2026 which includes training and 24 hours of technical support.

Leica RTC360 is the only scanner that works with Leica's MAP 360 that is used by the department and was purchased from Collision Forensic Solutions.

If this Sole Source is not approved it would be necessary for the department to research and purchase a system that is not compatible with Leica's Map 360 and require personnel to replace and learn a new scanner system.

**FISCAL IMPACT:**

CIP#: N/A

The Leica RTC 360 Laser Scanner will be expensed to the Technology account below. This item was not included in the 2023 budget, however, the Operating Supplies account in the Federal Forfeiture Fund has a budget of \$242,000 which will be used to cover the expense associated with this purchase. This award can be accommodated within the 2023 budget.

| Account Number  | Fund Description        | Total Budget Amount |
|-----------------|-------------------------|---------------------|
| 21103300-551504 | Federal Forfeiture Fund | \$0                 |