

AGENDA ITEM 2 A
Action Item

MEMORANDUM

DATE: November 2, 2023

TO: El Dorado County Transit Authority

FROM: Christine Parker, Safety Coordinator

SUBJECT: Upgrading of Mobileye by Rosco Collision Avoidance System

REQUESTED ACTION:
BY MOTION,

1. **Adopt Capital Improvement Plan Project, 23-04 for a Collision Avoidance System (CAS)**
2. **Approve Purchase Order #29200 for the purchase of Mobileye by Rosco Collision Avoidance**
3. **Authorize the Executive Director to execute all contracts and documents related to purchase and implementation of Rosco Collision Avoidance not to exceed Capital Improvement Plan Budget**

BACKGROUND

The El Dorado County Transit Authority (El Dorado Transit) provides transportation within El Dorado and Sacramento counties in a variety of hazardous traffic conditions. Drivers engage in numerous hours of training throughout their employment on proper mirror usage and blind spot awareness to help reduce, if not eliminate, the likelihood of being involved in collision with vehicles, bicyclists and pedestrians. Operating in urban environments, the risks significantly increase for potential pedestrian and bicycle conflicts.

In 2018, El Dorado Transit installed Mobileye Shield + across the fleet. During the 5 years since installation, the technology has provided lots of data regarding areas/zones that are hot spots for higher traffic and hard braking. It has also notified the operators of imminent danger when it comes to pedestrians, bicyclist and front-end collisions.

DISCUSSION

The upgraded Collision Avoidance System will decrease visual obstructions, provide additional detection by increasing sensor technology during low light, and provide an exterior audible announcement warning for pedestrians and bicyclists who enter the danger zone of a vehicle when turning.

The upgrades will be implemented in stages to ensure the implementation of the technology meets the operational needs and overall safety of all stakeholders.

El Dorado Transit Staff researched available Collision Avoidance Systems and determined Mobileye Shield+ through Rosco® is the only technology available that is associated with the Collision Avoidance System.

Mobileye Shield+ will continue to be a tool to assist El Dorado Transit to mitigate forward collisions, speed violations, and close following distances by alerting drivers to make the appropriate corrections. In addition, the telematics will provide safety data to assist El Dorado Transit with making other decisions to keep safety as a priority.

FISCAL IMPACT

COST SUMMARY (ESTIMATE)

	<u>Proposed Budget</u>
Collision Avoidance System	\$325,500
Contingency 10%	<u>\$ 32,550</u>
<i>Total Project Cost</i>	\$358,050

FUNDING SOURCE

Transportation Development Act (TDA)	<u>\$ 358,500</u>
<i>Total Revenue</i>	<u>\$ 358,500</u>

Collision Avoidance System Upgrade

Project No. 23-04

Operators engage in numerous hours of training throughout their employment on proper mirror usage and blind spot awareness to minimize the likelihood of being involved in collisions with vehicles, bicyclists and pedestrians. To further reduce the likelihood of collisions in the operators blind spot, in 2018, Collision Avoidance Systems were installed in the passenger vehicles to assist operators by alerting them of potential collisions.

Since the original installation, Collision Avoidance System technology has vastly improved. Upgrading the systems with the updated technology will decrease visual obstructions used by the current components, provide additional detection by increasing sensor technology during low light, and provide an exterior audible announcement warning pedestrians and bicyclists who enter the danger zone of a vehicle when turning.

COST SUMMARY (ESTIMATE)

	Proposed <u>Budget</u>
Collision Avoidance System	\$325,500
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<i>Total Project Cost</i>	\$358,050

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EL DORADO COUNTY TRANSIT AUTHORITY
6565 COMMERCE WAY
DIAMOND SPRINGS, CA 95619-9454
(530) 642-5383

PURCHASE ORDER NO. 29200

THIS NUMBER MUST APPEAR ON ALL INVOICES,
 PACKING LISTS, PACKAGES, AND BILLS OF LADING.

DATE: 11/02/2023

ACCOUNT: 9910.13 CLASS: 125

TO: ROSCO COLLISION AVOIDANCE
 90-21 144th PLACE
 JAMAICA, NY 11435-4397

SHIP & INVOICE TO:
EL DORADO COUNTY TRANSIT AUTHORITY
6565 COMMERCE WAY
DIAMOND SPRINGS, CA 95619-9454

Contact: MIKE CACIC

Vendor Phone No: (718) 526-2601

Fax No: (718) 297-0323

PROMISED DELIVERY DATE	TERMS: NET 30
	F.O.B. DESTINATION

QTY	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED TOTAL
		COLLISION AVOIDANCE SYSTEM UPGRADE MOBILEYE/SHIELD+ 3-CAMERA SYSTEM ADVANCED PEDESTRIAN ALERT SYSTEM INSTALLATION ON TEN (10) GILLIG AND SIXTEEN (16) MCI COACHES		\$305,500.00
3		MOBILEYE SHIELD+ TELEMATRICS SUBSCRIPTION	\$300.00	\$900.00

I hereby certify that this purchase order is in accordance with procedures in the purchase manual governing of such items for El Dorado County Transit Authority.	SUBTOTAL	\$306,400.00
	SHIPPING	
	SALES TAX	
	TOTAL	\$306,400.00

PURCHASING AGENT

PLEASE NOTE CONDITIONS ON REVERSE SIDE

"This Purchase Order expressly limits acceptance to the terms and conditions stated herein, set forth on the reverse side and any supplementary or additional terms and conditions annexed hereto or incorporated herein by reference. Any additional or different terms and conditions proposed by seller are objected to and hereby rejected."