

City of Ketchum

CITY COUNCIL MEETING AGENDA MEMO

Meeting Date:	October 2, 2023	Staff Member/Dept:	Jade Riley - Administration
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Agenda Item: Recommendation to approve Purchase Order 24019 with CT Northwest for

pedestrian/bicycle crosswalk sensors at Wood River Trail and Warm Springs Road

Recommended Motion:

"I move to approve the Purchase Order 24019 with CT Northwest for new pedestrian sensor on Warm Springs Road"

Reasons for Recommendation:

- The city installed three new pedestrian rapid flashing beacons for the bike path on Warm Springs last year. The city has received positive feedback regarding the level of illumination to drivers when activated.
- The city has also received feedback from the public that there is a low compliance level with bikers pushing the activation button. Staff installed training signs in the spring to encourage pushing the button but has not seen an increase in compliance.
- Staff is recommending the installation of a sensor system on both sides of the crosswalk that can be set up in a custom manner to trigger the crosswalk lights without having to push the button. The vendor has physically visited the site and has assured the avoidance of false-positive for those coming from or headed to Lewis Street on the bike path.
- Pricing determined by "piggybacking off" State of Washington Master Contract 04616, as Idaho did not offer negotiated contract, we could use for the parts needed.
- Installation to be done by City staff and electrician.

Sustainability Impact:

Increasing safe travel on the bike path, especially for commuter traffic, decreases the need for vehicular trips.

Financial Impact:

<u> </u>	
None OR Adequate funds exist in account:	Adequate funds exists in the capital contingency account.

Attachments:

- 1. CT Johnson Quote
- 2. Purchase Order 24019
- 3. Email Details and Product Description
- 4. Sensor Specifications Sheet



Quotation

CT NORTHWEST (dba of KAR-GOR INC)

PO BOX 54, TILLAMOOK, OR 97141 503-315-9899 (FAX 503-315-9913) DAVID SHAHON davids@kargor.com Date 9/27/2023
Quotation # MAY-23-019 REV

Quote Good For: 30 days

Quotation For

Jade Riley CITY OF KETCHUM Quotation valid until: Prepared by:

10/27/2023

jriley@ketchumidaho.org

Comments or Special Instructions

Please note: Quoted pricing is effective for 30 days from date of quote. After 30 days, please contact us for updated pricing. CT Northwest does not guarantee pricing more than 30 days. Final pricing will be determined upon release for shipment. We apologize for this inconvenience, but our costs are currently highly erratic and we must base our sell price on our purchase prices. Thanks for understanding.

AGENCY		INTERSECTION (ARTERIAL / SIDE STREET)		
CITY OF KETCH	UM	WOOD RIVER TRAIL CROSSING @ WARM SPRINGS RD		
FREIGHT				TERMS
FOB JOBSITE		CONTRACT # 04616		NET 30 DAYS

QUANTITY	PART NUMBER	DESCRIPTION	l	INIT PRICE	LIN	IE TOTAL
2	PN: 7250-195	FLIR TRAFIONE 195	\$	1,851.74	\$	3,703.48
2	PN: 7250-187	FLIR POE INTERFACE (ONE PER SENSOR) (PN: 10-7320)	\$	358.02	\$	716.04
2	PN:2285-411	5 AMP, 48V POWER SUPPLY, BREAKER, FUSE, KIT ON DIN RAIL	\$	211.34	\$	422.68
1	PN: SUPPORT	SITE SETUP AND TRAINING	\$	600.00	\$	600.00
	** CAT6 CABLE NOT INCLUDED IN PRICE QUOTE					
	** LEAD TIME IS APROX	60-90 DAYS UPON RECEIPT OF PURCHASE ORDER				
	WSDOT DES FEE AT 0.	76%			\$	41.36

CREDIT CARD ORDERS WILL INCURE A 3% SURCHARGE TO THE INVOICED AMOUNT

Subtotal Tax Rate 5,483.56 -

TOTAL

5.483.56

NOTE: STATE LAB FEES & SALES TAX NOT INCLUDED.

IT IS THE RESPONSIBILITY OF THE CUSTOMER TO SEND ANY ITEMS THAT REQUIRE TESTING TO THE STATE LAB

THIS IS A QUOTATION ON THE GOODS NAMED, SUBJECT TO CT NORTHWEST STANDARD TERMS AND CONDITIONS.

TO ACCEPT THIS QUOTATION, PLEASE REMIT PURCHASE ORDER TO CT NORTHWEST.

May 2023 edition



CITY OF KETCHUM

PO BOX 2315 * 191 5TH ST. * KETCHUM, ID 83340 Administration 208-726-3841 (fax) 208-726-8234

PURCHASE ORDER BUDGETED ITEM? ___ Yes ___ No

PURCHASE ORDER - NUMBER: 24019

To:

6095

CT NORTHWEST PO BOX 54

TILLAMOOK OR 97141

Ship to:

CITY OF KETCHUM PO BOX 2315 KETCHUM ID 83340

P. O. Date	Created By	Requested By	Department	Req Number	Terms
09/29/2023	BANCONA	BANCONA	Administration	0	

Quantity	Description	Unit Price	Total
1.00	CROSSING SENSOR EQUIP. WOODRIVER&W 03-4193-9930	5,483.56	5,483.56
	SHIPPING & HANDLING		0.00
	TOTAL PO AMOUNT		

From: David Shahon <<u>davids@kargor.com</u>>
Sent: Friday, August 25, 2023 11:49 AM
To: Trent Donat <<u>TDonat@ketchumidaho.org</u>>
Cc: Jade Riley <<u>jriley@ketchumidaho.org</u>>
Subject: RE: Thank you and Follow-up Questions

Hi Trent,

I am not surprised that radar is not working for a pedestrian crossing. Radar gets too many reflections and false artifacts that does not work for pedestrians. We have seen radar fail in the past and this is not new. We sell radar, but not for this application.

The thermal sensor is similar to a camera in that it looks in a direction and you can see what it is looking at. We can set up detection points, zones, by direction, area and size. We can ignore small objects, like a dog or bird, we can place directional arrows to track and identify where they are going. On the north side of the warm springs crossing, there is a challenging area because people walk around the curve, then either turn or go straight across, this will take some finesse, but I think the directionality will work and help reduce any false calls if someone's intention is to stay on the sidewalk.





A little hard to draw in a 2d drawing the area of focus, but hopefully those pictures give you some idea. The sensor has a 95 degree field of view, so very wide angle view.

On this page on our website there are some pedestrian detection videos – just scroll down the page to find them:

https://www.ct-grp.com/videos

The quoted amount is for 2 sensors, power supplies, installation, etc. The only item not included is CAT6 wire. We also do not have a bucket truck or that type of install, we need someone to mount the system, then we help them aim and configure. Your city maintenance people can help with the install.

We are approved by ITD on their QPL, but there is no other buying program, etc.

This product has a 2 year warranty.

Thanks,

David Shahon
CT - Northwest
Pacific Northwest Regional Sales Manager
PO Box 54
Tillamook, OR 97141

\$FLIR

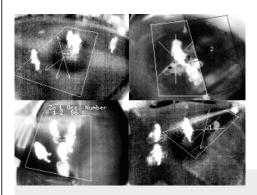


SMART CITY SENSOR

TRAFIONE

TrafiOne is an all-round detection sensor for traffic monitoring and dynamic traffic signal control. Offered in a compact and affordable package, the TrafiOne uses thermal imaging and Wi-Fi technology to adapt traffic signals based on the presence detection of vehicles, bicycles and pedestrians, while also generating high resolution data at intersections and in urban environments. As a result, TrafiOne helps traffic engineers improve traffic flows, monitor congestion, enhance safety for vehicles and vulnerable road users, collect data, and measure travel and delay times for different transport modes.

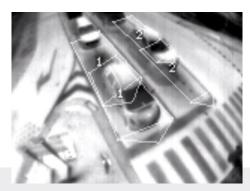
www.flir.com/Traffic



Thermal Imaging Sensor

TrafiOne allows for more dynamic control of traffic signals 24/7.

- Sees traffic in total darkness, through shadows and sun glare
- Detects the presence of vehicles and bicyclists at the stopbar
- Detects pedestrians and bicyclists in the crossing or on the curb
- Connects to traffic signal controller via dry contact outputs or TCP/IP network communication



WI-FI Technology

Secure wireless communication allows for quick and easy configuration of detection zones.

- Monitors Mac addresses of Wi-Fi enabled devices, such as smartphones
- Determines travel and route times along road segments
- Measures queue delay times at intersections via Wi-Fi signal strength



FLIR ITS-IQ

TrafiOne information is processed using cloud-based data analysis.

- FLIR ITS-IQ provides critical understanding or road network performance
- Smart analytics transform information into useful traffic insights
- User-friendly dashboard lets traffic engineers generate reports and take measures, when needed

TECHNICAL SPECIFICATIONS

System Overview

Curbside and on-crossing pedestrian and bicycle presence detection

Visual HD streaming video (optional license)

Functionalities

Stopbar vehicle and bicycle presence detection (optional license)

Wi-Fi monitoring (optional license) Pedestrian counting (optional license)

8 vehicle presence zones # detection zones

8 pedestrian presence zones

Configuration Web page via secure Wi-Fi or Ethernet

Thermal Sensor

Resolution 160 x 120 Frame rate

Focal Plane Array (FPA) uncooled VOx microbolometer LWIR sensor, Detector type

8 to 14 µm wavelength

RTSP Streaming Video

H.264, MPEG-4 Compression

Visual Sensor

1080 x 1920 HD color CMOS Resolution

30 fps Frame rate 95° Lens HFOV Streaming Video RTSP

Compression H.264, MPEG-4, MJPEG

Housing

Material Aluminum housing with PC GF10 sunshield PA GF30 mounting clamps and aluminum tube Bracket

Power, outputs, communication

Input power 12-42 V AC/DC Power consumption Average 6 Watt, peak 7 Watt

1 N/O and 1 N/C dry contacts direct Outputs 16 N/C dry contacts via TI BPL2 or TI BPL2 EDGE interface

10/100 MBps Ethernet

Powerline Communication Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface

IEEE 802.11 type b,g,n EIRP < 100mW

Environmental

Shock & Vibration NEMA TS2 specs

Materials All weatherproof UV-resistant

IP Rating IP67

Temperature range -40°C to +60°C / -40°F to +140°F /

FCC FCC part 15 class A

Regulatory

EU Directives EMC 2014/30/EU, RoHS 2011/65/EU

Product specific TrafiOne 195 TrafiOne 156

Part number 10-7070 HFOV 95°

vehicle & bicycle presence: 0 - 20m, 0 - 65.6ft Detection distance (depending on installation height) pedestrian & bicycle presence: 0 - 12m, 0 - 39ft

Installation height 3.5 - 6m / 11.4 - 19.6ft 10-7075 56°

vehicle & bicycle presence: 10 - 35m, 33 - 115ft pedestrian & bicycle presence: 10 - 25m, 33 - 82ft

5.5 - 8m / 18 - 26ft

Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com

CORPORATE **HEADQUARTERS**

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www.flir.com NASDAQ: FLIR

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