

Fax Cover Sheet

From: MoboTrex, Inc.
1550 Standing Ridge Drive
Powhatan, VA 23139
(804) 893-8412

To: WV Dept of Pruchasing
Buyer: Crystal Husted
Fax #: (304) 558-3970

Pages: 21 (including this page)

State of West Virginia Bid Opportunity

Solicitation Type: CRFQ
Solicitation No. DOT2000000111
Description: Traffic Signal Parts
Bid Closing: 02/06/2020 1:30 PM

RECEIVED
2020 FEB -6 PM 1:17
WV PURCHASING
DIVISION



Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Request for Quotation
19 - Highways

Proc Folder: 660917

Doc Description: TRAFFIC SIGNAL PARTS (8520C3003)

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2020-01-17	2020-02-06 13:30:00	CRFQ 0803 DOT2000000111	1

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Name, Address and Telephone Number:

Mobatrex 804-893-8412
1650 Standing Ridge Dr.
Powhatan, VA 23139

FOR INFORMATION CONTACT THE BUYER

Crystal G Husted
(304) 558-2402
crystal.g.husted@wv.gov

Signature X

FEIN #

36-2656899

DATE

02/06/2020

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION

THE STATE OF WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, WEST VIRGINIA DIVISION OF HIGHWAYS, IS SOLICITING BIDS TO ESTABLISH AN OPEN-END CONTRACT FOR TRAFFIC SIGNAL PARTS PER THE ATTACHED DOCUMENTS.

QUESTIONS REGARDING THE SOLICITATION MUST BE SUBMITTED IN WRITING TO CRYSTAL.G.HUSTEAD@WV.GOV PRIOR TO THE QUESTION PERIOD DEADLINE CONTAINED IN THE INSTRUCTIONS TO VENDORS SUBMITTING BIDS

BUYER	SHIP TO
DIVISION OF HIGHWAYS TRAFFIC ENGINEERING DIVISION 1900 KANAWHA BLVD E, BLDG 5 RM A550 CHARLESTON WV25305-0430 US	DIVISION OF HIGHWAYS TRAFFIC ENG. TSC - SIGNAL MAINTENANCE 180 DRY BRANCH DR CHARLESTON WV 25306 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	TRAFFIC SIGNAL PARTS FOR MAINTENANCE	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
46161504			

Extended Description :
PRICING TO BE INCLUDED ON THE ATTACHED EXHIBIT A PRICING PAGE


EVENTS

Line	Event	Event Date
1	VENDOR QUESTION DEADLINE	2020-01-24

	Document Phase	Document Description	Page 3
DOT2000000111	Final	TRAFFIC SIGNAL PARTS (8520C3003)	of 3

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

	Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130	State of West Virginia Request for Quotation 19 -- Highways
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Proc Folder: 660917 Doc Description: ADDENDUM 1 TRAFFIC SIGNAL PARTS (8520C3003) Proc Type: Central Master Agreement			
Date Issued	Solicitation Closes	Solicitation No	Version
2020-01-24	2020-02-06 13:30:00	CRFQ 0803 DOT2000000111	2

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US


VENDOR

Vendor Name, Address and Telephone Number:

Mobattrex
 1550 Standing Ridge Dr.
 Pouchester, VA 23139
 804-893-9412

FOR INFORMATION CONTACT THE BUYER

Crystal G Hustead
 (304) 558-2402
 crystal.g.hustead@wv.gov

Signature X  FEIN # 36-2656899 DATE 02/06/2020

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ADDITIONAL INFORMATION

THE STATE OF WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, WEST VIRGINIA DIVISION OF HIGHWAYS, IS SOLICITING BIDS TO ESTABLISH AN OPEN-END CONTRACT FOR TRAFFIC SIGNAL PARTS PER THE ATTACHED DOCUMENTS.

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INVOICE TO	SHIP TO
DIVISION OF HIGHWAYS TRAFFIC ENGINEERING DIVISION 1900 KANAWHA BLVD E, BLDG 5 RM A550 CHARLESTON WV25305-0430 US	DIVISION OF HIGHWAYS TRAFFIC ENG, TSC - SIGNAL MAINTENANCE 180 DRY BRANCH DR CHARLESTON WV 25308 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	TRAFFIC SIGNAL PARTS FOR MAINTENANCE	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
46161504			

Extended Description :
 PRICING TO BE INCLUDED ON THE ATTACHED EXHIBIT A PRICING PAGE

SCHEDULE OF EVENTS

Line	Event	Event Date
1	VENDOR QUESTION DEADLINE	2020-01-24

SOLICITATION NUMBER: CRFQ DOT2000000111

Addendum Number: 1

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- Modify bid opening date and time
- Modify specifications of product or service being sought
- Attachment of vendor questions and responses
- Attachment of pre-bid sign-in sheet
- Correction of error
- Other

Description of Modification to Solicitation:

1. To provide answers to vendor questions

No other changes

Bid opening remains 02/06/2020 at 1:30 PM

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

ATTACHMENT A

Addendum #1 CRFQ DOT20000000111/ Traffic Signal Parts

Question 1- Item #28: Did you need that shelf or rack mount? How many channels?

Answer 1- Shelf mount. Please see the specification in section 3.1.28.1

Questions 2- Item #29: Is the part number MMU16LEIP what you are looking for?

Answer 2 – Please see the specifications in section 3.1.29.1

Question 3 -Item #34: Did you want poly or aluminum for the signal? What kind of mounting? Clamshell, SOP or Post top?

Answer 3 – Poly and Clamshell.

Questions 4 -Item #38: Did you want RTC or Eltec? What model # are you looking for?

Answer 4- Please see the specifications in sections 3.1.38.1

Questions 5- Item #41: Do you have a part number I could use as a reference?

Answer 5- Please see specifications in 3.1.41.1

Question 6 - Item #42: Do you have a part number I could use as a reference?

Answer 6- Please see specifications in sections 3.1.42.1

Question 7- Can you tell us the project numbers and dates for previous contracts for this work?

Answer 7- Requesting copies of previously awarded contracts, other solicitations, or documents related to previous contracts through the question and answer process included in this solicitation is not appropriate. Requests for documentation of this nature can be obtained by interested parties through a Freedom of Information Act request.

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: DOT2000000111

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.


Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Mobotrex

 Company


 Authorized Signature
 02/06/2020

 Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.
Revised 6/8/2012

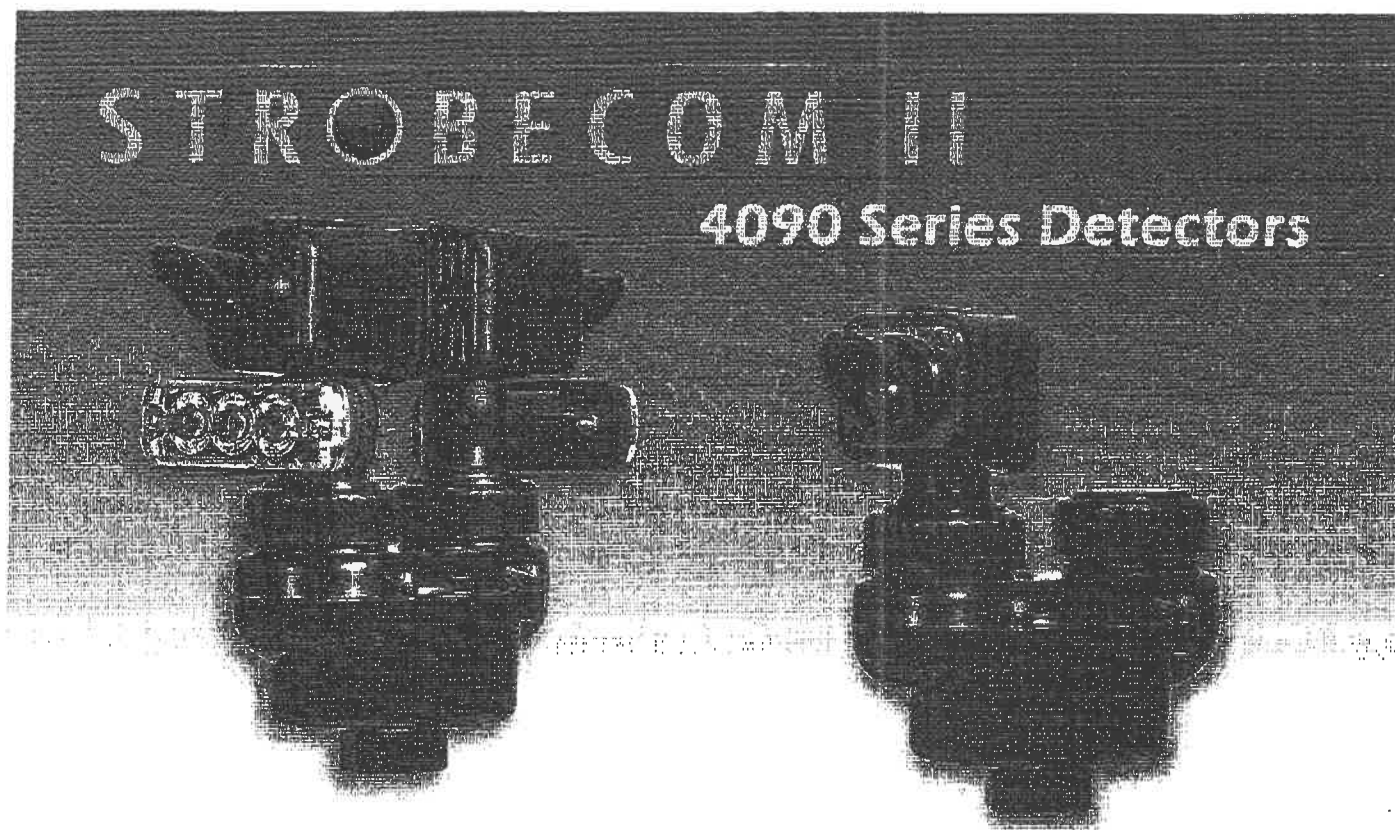
Exhibit A Pricing Page from MoboTrex, Inc.

CRFQ DOT2000000111						
Item Number	Estimated Quantities	Unit of Measure	Description	UNSPC CODE	Unit Price	Total Cost
SECTION 1						
1	20	ea	Siemens Eagle Traffic Controller M60 Series or equivalent	46161504	\$ 3,225.00	\$ 64,500.00
2	10	ea	Siemens Eagle Master Traffic Controller M60 Series or equivalent	46161504	\$ 3,425.00	\$ 34,250.00
3	30	ea	Repairs of Siemens Eagle Traffic Controllers	46161504	\$ 1,400.00	\$ 42,000.00
4	1	ea	Eagle Traffic Signal TS2 Pole Mounted Signal Cabinet or equivalent	46161504	\$ 9,725.00	\$ 9,725.00
5	1	ea	Eagle TS2 Ground Mounted Traffic Signal Cabinets or equivalent	46161504	\$ 9,975.00	\$ 9,975.00
SECTION 2						
6	20	ea	Econolite Cobalt ATC Traffic Signal Controller or equivalent	46161504	\$ -	No Bid
7	20	ea	Repair of Econolite Traffic Controller	46161504	\$ -	No Bid
8	1	ea	Econolite TS2 Pole Mounted Signal Cabinet or equivalent	46161504	\$ -	No Bid
9	1	ea	Econolite TS Ground Mounted Signal Cabinet or equivalent	46161504	\$ -	No Bid
SECTION 3						
10	10	ea	Iteris R24 Vehicle Detection Camera or equivalent	46161504	\$ 1,875.00	\$ 18,750.00
11	5	ea	Repair of Iteris R24 Video Detection Camera or equivalent	46161504	\$ 350.00	\$ 1,750.00
12	10	ea	Iteris Vehicle Detection Card or equivalent	46161504	\$ 3,500.00	\$ 35,000.00
13	10	ea	Repair of Iteris Video Detection Card	46161504	\$ 550.00	\$ 5,500.00
SECTION 4						
14	10	ea	Autoscope Vehicle Detection Video Camera or equivalent	46161504	\$ -	No Bid
15	10	ea	Repair of Autoscope Vehicle Detection Camera or equivalent	46161504	\$ -	No Bid
16	10	ea	Autoscope Vehicle Detection Cards or equivalent	46161504	\$ -	No Bid
17	10	ea	Repair of Autoscope Vehicle Detection Cards	46161504	\$ -	No Bid
SECTION 5						
18	1	ea	Wavetronix Smart Sensor Matrix Vehicle Detection Radar or equivalent	46161504	\$ -	No Bid
19	1	ea	Wavetronix Smart Sensor "Advance" Matrix Vehicle Detection Radar or equivalent	46161504	\$ -	No Bid
20	10	ea	Wavetronix Smart 2-Channel Detection Card or equivalent	46161504	\$ -	No Bid
21	5	ea	Wavetronix 4-Channel Vehicle Detection Card or equivalent	46161504	\$ -	No Bid
SECTION 6						
22	1	ea	Econolite Accuscan "Stop Bar"+Advance Model 500 or Equal Vehicle Detection Radar	46161504	\$ -	No Bid
23	1	ea	Econolite Accuscan "Stop Bar"+ Advance Model 600c or equal Vehicle Detection Radar	46161504	\$ -	No Bid
24	10	ea	Econolite Accuscan model TMIB2 or equal Detection Radar Controller Interface Card	46161504	\$ -	No Bid
SECTION 7						
25	30	ea	TOMAR Preemption Control Systems Detectors Model 4090-1-SD	46161504	\$ 350.00	\$ 10,500.00
26	20	ea	TOMAR Preemption Control Systems Detection Cards Model 4080V2-2	46161504	\$ 625.00	\$ 12,500.00
27	15	ea	Repair of TOMAR Preemption Control Systems Detection Cards or equivalent	46161504	\$ 300.00	\$ 4,500.00
SECTION 8						
28	30	ea	Traffic Signal Conflict Monitor	46161504	\$ 750.00	\$ 22,500.00
29	15	ea	Traffic Signal Malfunction Management Unit	46161504	\$ 700.00	\$ 10,500.00
30	30	ea	Traffic Signal Bus Interface Unit	46161504	\$ 155.00	\$ 4,650.00
31	150	ea	Green LED Signal Lamp	46161504	\$ 40.00	\$ 6,000.00
32	150	ea	Yellow LED Signal Lamp	46161504	\$ 40.00	\$ 6,000.00
33	150	ea	Red LED Signal Lamp	46161504	\$ 40.00	\$ 6,000.00
34	90	ea	LED Pedestrian Signal Head with Housing and Mounting Hardware	46161504	\$ 300.00	\$ 9,000.00
35	30	ea	Audible Pedestrian Push Button	46161504	\$ 570.00	\$ 17,100.00
36	50	ea	TS1 Cabinet Power Supply	46161504	\$ 220.00	\$ 11,000.00
37	15	ea	TS2 Cabinet Power Supply	46161504	\$ 425.00	\$ 6,375.00
38	5	ea	Time Clocks	46161504	\$ 475.00	\$ 2,375.00
39	50	ea	56K Wired Modems	46161504	\$ 125.00	\$ 6,250.00
40	20	ea	Flash Transfer Relays	46161504	\$ 25.00	\$ 500.00
41	5	ea	Solar Flasher Controller	46161504	\$ 125.00	\$ 625.00
42	5	ea	Solar Flasher Motor Unit*	46161504	\$ 24.00	\$ 120.00
SECTION 10						

Item Number	Estimated Quantities	Unit of Measure	Description	UNSPC CODE	Unit Price	Total Cost
43	20	ea	ENCOM Radio Transceivers or equivalent	46161504	\$ 1,150.00	\$ 23,000.00
SECTION 11						
44	10	ea	Intulcom Radio Transceivers or equivalent	46161504	\$ -	No Bid

Data sheets Attached for items 25 and 26 as current equivalent models from Tomar.

The solar flasher motor unit described by P/N RU4204 in the spec is an AC driven flasher. We have bid an equivalent. However, we feel this should have been a DC driven flasher for a solar application. For a solar powered flasher, we would bid an Eltec P/N F5-3 at a cost of \$190.00 each. See attached data sheet.



4090 Series OPTICAL PREEMPTION DETECTORS

TOMAR's 4090 Series Optical Preemption Detectors sense the optical pulses emitted by properly equipped emergency or transit vehicles. Mounted to observe the approaches of an intersection, 4090 Detectors are used with TOMAR 2000, 3000 and 4000 Series Optical Signal Processors to inform the traffic control system of the presence of designated vehicles.

The 4090-x-ST detectors incorporate a self-test feature for true closed loop detector and wiring welfare monitoring. Each 4090-X-ST detector includes a small infrared LED which periodically injects a special test signal into the detectors photo sensor. The 2140, 3140 and 4140 Series OSPs receive the special test signal and therefore know that the detector is fully functional. Should a detector fail self-test a front panel indication and an entry in the OSP log indicate the problem.

Using 4090 Series detectors and Strobecom II throughout your traffic control system reduces emergency response time, allows emergency vehicles to travel with greater safety, and improves transit vehicles timeliness.

TOMAR 4090 Series Detectors offer these important features:

- Closed loop self-test for detector welfare, monitoring and reporting (ST models only).
- Military derived sensor technology for direct sunlight rejection and detection performance unmatched by ANY other system.
- Fully encapsulated electronics for complete resistance to water, heat, and vibration.
- Complete electronics protection from damage due to miswiring or electrical transients.
- Simple advanced detector installation without any special cabling for enhanced detection around corners and over hills.
- Tool-less tilt/swivel for each detector head makes aiming easy

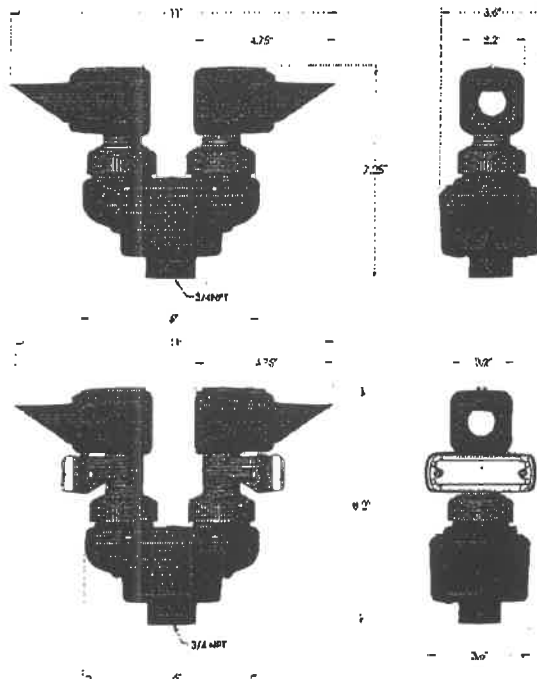
STR OBECOM II Optical Preemption & Priority Control Systems

Specifications for 4090 Series Detectors

Item	Description
Maximum Range	2500 feet minimum when used with a TOMAR Optical Signal Processor.
Optical Pulse Rise Time Discrimination	The 4090 Series input stages are optimized for the detection of strobe pulses with a rise time from start of pulse to peak of pulse of 10 microseconds or less. Slower pulses such as varying sunlight and incandescent emergency lighting will be highly attenuated and substantially ignored by the detector's digital discriminators.
4090-x-ST self testing detectors	The 4090-x-ST Series incorporate a self-test feature for true closed loop detector sensor and wiring welfare monitoring.
Field of View	13 degrees conical centered about the viewport normal axis (typical).
Power Requirements	VOLTAGE: 12 to 30VDC CURRENT: 15 mA maximum
Wiring Connections	Blue Wire - GROUND Yellow - SIGNAL Orange Wire - +12 to 30 VDC Shield and Drain Wire - CONNECT TO BLUE WIRE AT TRAFFIC CABINET
Temperature Range	-40° Celsius to +75° Celsius
Physical Construction	The 4090 Series enclosures are black, glass-filled, UV stabilized, polyamide suitable for all-weather use. All electronic circuitry is completely encapsulated in polyurethane for protection from shock, vibration, and moisture. A weep hole is provided for allowing the escape of condensation or other internal moisture build-up in the sight tube of the detector.
Mounting	The 4090 Series are easily mounted using standard hardware on either span wire or mast arm. The unit has a 3/4" female pipe mount hub and internal terminal block for connection to a 3/C shielded detector cable. See catalog page 23 for available mounting hardware.

4090 detector series ordering information

Catalog Number	Description
4090-1-SD	One direction, one channel detector, no self-test (for model 2070, 2080, and 3080 optical signal processors).
4090-21-SD	Two direction, one channel detector, no self-test (for model 2070, 2080, and 3080 optical signal processors).
4090-22-SD	Two direction, two channel detector, no self-test (for model 2070, 2080, and 3080 optical signal processors).
4090-1-ST	One direction, one channel detector, with self-test (for model 2140, 3140, and 4140 optical signal processors).
4090-21-ST	Two direction, one channel detector, with self-test (for model 2140, 3140, and 4140 optical signal processors).
4090-22-ST	Two direction, two channel detector, with self-test (for model 2140, 3140, and 4140 optical signal processors).



TRUE 10 Year Warranty!

10 year warranty covers the 4090 Series and all STROBECOM II components. Unlike other manufacturers, TOMAR's ten year warranty has NO fees or charges for warranty repairs after five years.

NOTICE: The sale of these items are restricted to state and local governments and to authorized distributors only.

TOMAR Electronics, Inc.
A Division of...

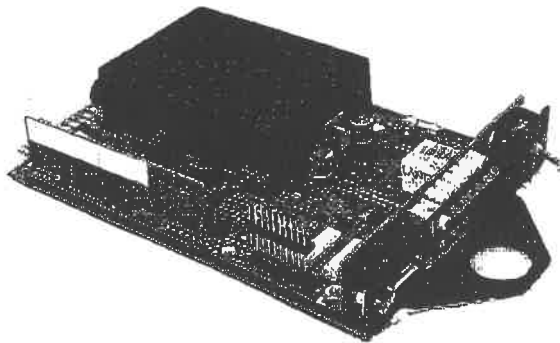
TOMAR Electronics, Inc. 2100 W. Obispo Ave. Gilbert, AZ 85233 USA (900) 338-3133 tel (800) 688-6627 fax www.tomar.com



STR • BECOM II

4080V2-2

4080 Version 2, two channel, optical signal processor with Integrated Confirmation



- **INTEGRATED CONFIRMATION** technology powers IC enabled 4000 series TOMAR Strobecom II detectors to be powered and controlled over the standard preemption detector cable. No additional power supplies, mounting, programming, or wiring required.
- **TRUE CONFIRMATION**, when combined with INTEGRATED CONFIRMATION is the only preemption system that provides real, closed-loop, visual feedback to vehicle drivers that the intersection is in preempt
- **Active Reflection Suppression** prevents cross street preemption due to reflected emitter energy. TOMAR's advanced digital signal processing eliminates this troublesome side effect making detector installation and setup far less critical.
- **PLUG-and-PLAY** firmware allows the addition of detectors and other accessories to the system without manual configuration. Buy only the equipment needed today and add more capability later saving precious funds.
- **Expansion Port** provides easy connection of the 4080V2-2 to other accessory modules

Installed inside the traffic cabinet, the 4080V2-2 optical signal processor provides power for 4000 series optical detectors, receives, decodes, and prioritizes emitter signals from the detectors, powers and activates Integrated Confirmation lights.

Equipped with TOMAR's patented (US patent 8,742,946) INTEGRATED CONFIRMATION technology, the 4080V2-2 powers and controls the high intensity LED confirmation lights integrated into up to four 4000 series IC enabled detectors over standard preemption detector cable with no additional power supply, mounting, programming, or wiring. Integrated Confirmation equipped intersections provide visual feedback of intersection preemption to vehicle drivers and citizens for enhanced safety. When combined with TOMAR's True Confirmation feature the integrated LED confirmation lights provide real closed-loop visual feedback that the traffic controller is actually in preemption providing enhanced right-of-way.

The 4080V2-2 is delivered default programmed to respond on a first-come first-served basis to optical signals from vehicles within two signal bands. Emergency Band signals are typically emitted by emergency vehicles to effect a preemption of normal traffic control timing and are given the highest priority to allow rapid emergency vehicle response with enhanced safety. Transit Band signals are generally emitted by transit or other non-emergency municipal vehicles to effect a priority change for the vehicle's approach direction without necessarily interrupting traffic control timing. Up to 65,000 vehicles in each signal band can be individually identified and responded to.

The 4080V2-2 OSP is compatible with NEMA TS-1, TS-2, and CA/NY 170 and 2070 controllers, and meets all NEMA and Caltrans environmental requirements. The 4080V2-2 plugs directly into standard preemption card slots and does not use internal 24VDC cabinet power. For controllers without a preemption card slot the TOMAR 1881 rack provides the necessary hardware and harnessing to allow simple connection to detectors and controller inputs.



Specifications

Item	Description
Signal	The 4080V2-2 shall be capable of receiving, decoding, and prioritizing the Emergency band and Transit band signals transmitted by all TOMAR and competitive emitters. The 4080V2-2 shall be jumper configurable to accept or reject older non-identifying optical signals. Up to 65,000 vehicles in each signal band shall be individually identifiable.
Signal Acquisition Time	Typical signal acquisition time shall be approximately 2.5 seconds. Acquisition time will vary depending on the number of signals present simultaneously and on the density of optical noise.
Range	2500 feet maximum adjustable down to 200 feet in 255 steps for each signal band and each approach.
Priority Determination	The 4080V2-2 shall be delivered with default priority grouping, responding on a first-come, first-served basis to signals within each signal band. Signals in the Emergency signal band shall be given priority over signals in the transit signal band. Using configuration jumpers, the user can enable or disable certain signal types, modify transit priority, configure the confirmation light patterns, and enable or disable True Confirmation operations.
Output Signals	The 4080V2-2 shall provide two optically-isolated output channels for placing NEMA standard signal level calls on traffic controller preempt inputs.
Input Signals	The 4080V2-2 shall have two optically-isolated inputs for connecting to traffic controller preempt status outputs.
Confirmation Lights	The 4080V2-2 shall be capable of powering and operating up to two TOMAR 4000 series Integrated Confirmation enabled detectors over up to 600' of preemption detector cable per IC enabled detector.
Maximum Detectors	Up to two 4000 series IC enabled detectors (maximum of four LED confirmation lights total) plus four additional non-IC enabled detectors
Electrical Requirements	120/240VAC 50/60Hz
Temperature Range	-40 to +75 degrees C
Transient Protection	Input power shall be MOV protected from AC mains transients. Detector inputs shall be TVS protected from electrical transients.
Fusing	A ½ amp fuse shall be included in the input power connection to protect cabinet wiring

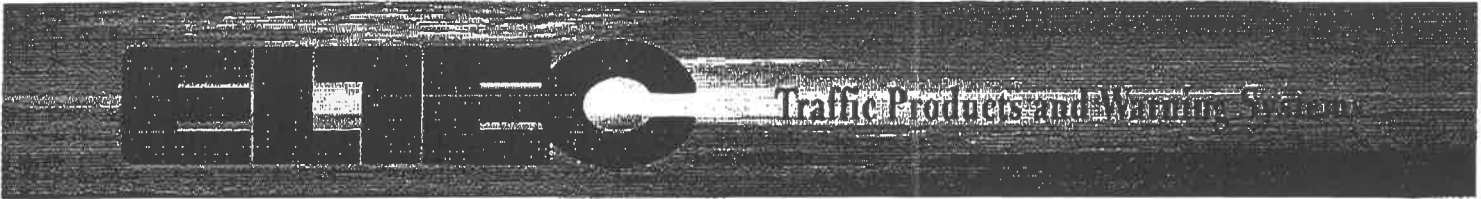
Ordering Info

Catalog Number	Description
4080V2-2	Two channel Optical Signal Processor with INTEGRATED CONFIRMATION.

TRUE 10 YEAR WARRANTY!

10 year warranty covers the 4000 Series and all STROBECOM II components. Unlike other manufacturers, TOMAR's ten year warranty has NO fees or charges for warranty repairs after five years.

NOTICE: The sale of these items are restricted to state and local governments and to be authorized distributors only.



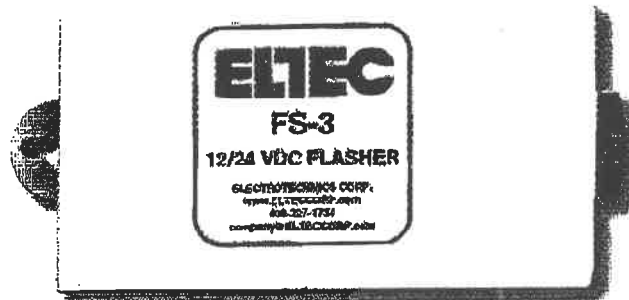
FS-3 DC FLASHER

ELTEC's FS-3 DC flasher for traffic warning systems combines the functionality of both the FS-2A (wig-wag) and the FS-2B (RRFB) models. It uses solid state circuitry and an integrated microprocessor for multiple programming options with minimal power consumption. It is typically mounted on the cabinet back panel where there is a ready source of 11.4VDC-30VDC. The FS-3 is generally used in solar powered flashing beacon caution systems but can also be integrated into AC systems (power supply added.)

The FS-3 is interchangeable; the dimensions are the same as the FS-2A and FS-2B. When programming the flash pattern for a Rectangular Rapid Flashing Beacon (RRFB) pedestrian crossing, both FHWA approved flash patterns are offered: either the preferred Wig-Wag plus Simultaneous (WW+S) or the earlier flash pattern of 2/4-1.

STANDARD FEATURES

- Multiple Flash Patterns
 - Round Beacons: Wig-Wag
 - * Duty Cycle of 50% ON/OFF (2 LEDs)
 - * Duty Cycle of 40% ON/ 60% OFF (1 LED)
 - Rectangular Rapid Flashing Beacons (RRFB)
 - * WW+S
 - * 2/4-1
- Low Power Consumption
- Multipurpose Programming
- Night Run Only Feature: Dusk to Dawn
- Optional Night Dimming (with photo cell)



SPECIFICATIONS

Dimensions	1.64"H x 5.5"L x 2.65"W
Input Voltage Range	11.4VDC to 30VDC
Maximum Load Power	40 Watts per Output Circuit
Temperature Range	-34° C to +74° C
Flash Circuits	1 or 2 Circuits
Flash Rates	75 *FPM for RRFB patterns; 55 FPM for Wig-Wag patterns
Night Dimming	Automatic via Photocell (may be disabled)
Night Run Only	Enabled/Disabled via Internal Switch

*Flashes Per Minute

ELECTROTECHNICS CORPORATION
 1310 Commerce Street, Marshall, TX 75672
 800-227-1734 903-938-1901 Fax 903-938-1977
sales@elteccorp.com

Rev. 1216

West Virginia Ethics Commission



Disclosure of Interested Parties to Contracts

Pursuant to *W. Va. Code* § 6D-1-2, a state agency may not enter into a contract, or a series of related contracts, that has/have an actual or estimated value of \$1 million or more until the business entity submits to the contracting state agency a Disclosure of Interested Parties to the applicable contract. In addition, the business entity awarded a contract is obligated to submit a supplemental Disclosure of Interested Parties reflecting any new or differing interested parties to the contract within 30 days following the completion or termination of the applicable contract.

For purposes of complying with these requirements, the following definitions apply:

"Business entity" means any entity recognized by law through which business is conducted, including a sole proprietorship, partnership or corporation, but does not include publicly traded companies listed on a national or international stock exchange.

"Interested party" or "Interested parties" means:

- (1) A business entity performing work or service pursuant to, or in furtherance of, the applicable contract, including specifically sub-contractors;
- (2) the person(s) who have an ownership interest equal to or greater than 25% in the business entity performing work or service pursuant to, or in furtherance of, the applicable contract. (This subdivision does not apply to a publicly traded company); and
- (3) the person or business entity, if any, that served as a compensated broker or intermediary to actively facilitate the applicable contract or negotiated the terms of the applicable contract with the state agency. (This subdivision does not apply to persons or business entities performing legal services related to the negotiation or drafting of the applicable contract.)

"State agency" means a board, commission, office, department or other agency in the executive, judicial or legislative branch of state government, including publicly funded institutions of higher education: Provided, that for purposes of *W. Va. Code* § 6D-1-2, the West Virginia Investment Management Board shall not be deemed a state agency nor subject to the requirements of that provision.

The contracting business entity must complete this form and submit it to the contracting state agency prior to contract award and to complete another form within 30 days of contract completion or termination.

This form was created by the State of West Virginia Ethics Commission, 210 Brooks Street, Suite 300, Charleston, WV 25301-1804. Telephone: (304)558-0684; fax: (304)558-2169; e-mail: ethics@wv.gov; website: www.ethics.wv.gov.

West Virginia Ethics Commission Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: MoboTrex, Inc. Address: 1550 STANDING RIDGE DR
POWhatan, VA 23139

Name of Authorized Agent: N/A Address: _____

Contract Number: DOT 2000000111 Contract Description: TRAFFIC SIGNAL REPAIR

Governmental agency awarding contract: DEPT of TRANSPORTATION

Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (attach additional pages if necessary):

1. **Subcontractors or other entities performing work or service under the Contract**

Check here if none, otherwise list entity/individual names below.

2. **Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)**

Check here if none, otherwise list entity/individual names below.

3. **Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)**

Check here if none, otherwise list entity/individual names below.

Signature: [Signature] Date Signed: 2/6/20

Notary Verification

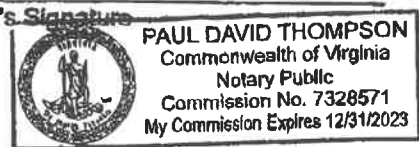
State of VIRGINIA, County of POWHATAN:

I, PAUL D. THOMPSON, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 6th day of FEBRUARY, 2020

[Signature]
Notary Public's Signature

To be completed by State Agency:
Date Received by State Agency: _____
Date submitted to Ethics Commission: _____
Governmental agency submitting Disclosure: _____



STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-8-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Mobotrex, Inc

Authorized Signature: [Signature] Date: 2/6/20

State of VIRGINIA

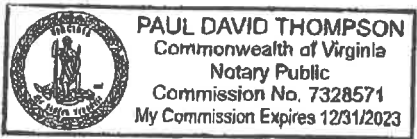
County of POWHEATAN, to-wit:

Taken, subscribed, and sworn to before me this 6 day of FEBRUARY, 2020

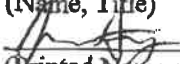
My Commission expires DEC 31, 2023.

AFFIX SEAL HERE


NOTARY PUBLIC [Signature]



DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Jason Atteberry Inside Sales Representative
 (Name, Title)

 (Printed Name and Title)
1550 Scouting Ridge Dr. Powhatan VA 23139
 (Address)
804-893-8412
 (Phone Number) / (Fax Number)
jatteberry@mobotrex.com
 (email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Mobotrex, Inc
 (Company)

 (Authorized Signature) (Representative Name, Title)
Jason Atteberry Inside Sales Representative
 (Printed Name and Title of Authorized Representative)
02/06/2020
 (Date)
804-893-8412
 (Phone Number) (Fax Number)