

You may register this product online at  
[www.AdaptivTech.com](http://www.AdaptivTech.com).

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## INTRODUCTION

Dear *TPX™ Motorcycle Radar and Laser Detection System Version 2.0* Owner,

Congratulations on your purchase of the *TPX™ Motorcycle Radar and Laser Detection System Version 2.0*. This system is the result of years of research and development by the motorcycle-minded engineers who started the company. The unit was designed from the ground up with the rider in mind every step of the way.

The *TPX™ Motorcycle Radar and Laser Detection System Version 2.0* is not cluttered with unnecessary features. Its simple and straight forward design allows you to focus on your ride instead of fiddling with bells and whistles.

Our goal is to provide you with the highest quality radar and laser detectors designed specifically for motorcycles. Enjoy your new *TPX™ Motorcycle Radar and Laser Detection System Version 2.0*. Enjoy your ride, and ride safe.

Sincerely,

Adaptiv Technologies

## SAFETY WARNING

When using the *TPX™ Motorcycle Radar and Laser Detection System Version 2.0* and its associated components, it is the sole responsibility of the operator to install all components properly and to ensure that they will not interfere with safe operation of the vehicle, nor will they cause any personal injury or damage in the event of an accident. The operator should operate the vehicle in a safe manner while using the system and its components. Do not use the system if you find it distracting. Do not use the system if it is unsafe or dangerous to do so.



**Warning: Using this system is not a license to speed! Always ride safely and obey traffic laws.**



**Warning: It is your responsibility to be familiar with all laws applicable to the possession and use of radar detectors in your locality. The manufacturer and retailer assume no responsibility for any use or application of this product in violation of any applicable law. Please check your state and local laws and regulations before installing this product.**

## PACKAGE CONTENTS

- TPX™ Detector Unit
- TPX™ Visual Alert
- TPX™ Visual Alert Double Sided Adhesive Tape
- TPX™ Quick Release Plate
- Database Download USB Cable
- TPX™ Wiring Harness
- Cable Ties
- Manual
- Product Registration Form

## PRODUCT OVERVIEW

The *TPX™ Motorcycle Radar and Laser Detection System Version 2.0* is designed specifically for motorcycle use. The system detects radar signals used by traffic enforcement agencies in the United States, including the *X*, *K*, and *Ka* radar bands, as well as police laser guns. It is weather resistant with large, easy to operate buttons and a bright LCD display. The system comes with the *TPX™ Visual Alert* and can also be used with the *TPX™ Wireless Headset* (sold separately). An audio output connection is provided for those riders who choose to use the *TPX™ Radar and Laser Detection System Version 2.0* with an existing sound or communication system.

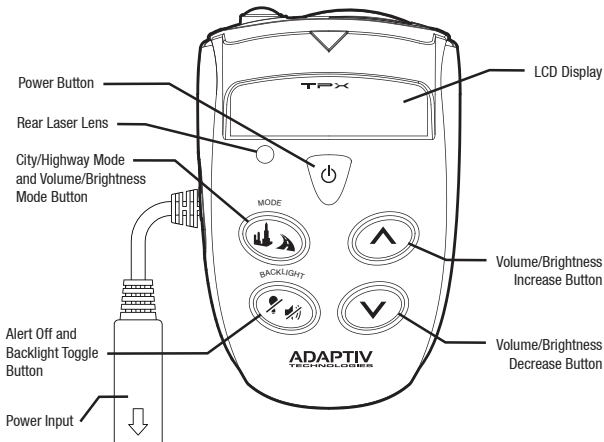


Figure 1a

## PRODUCT OVERVIEW

[CONTINUED]

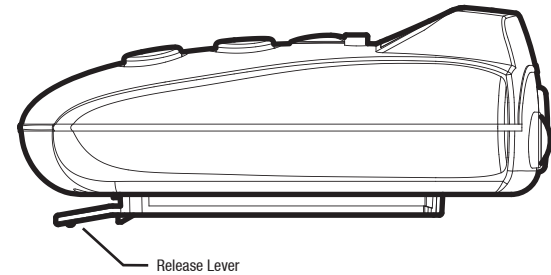


Figure 1b

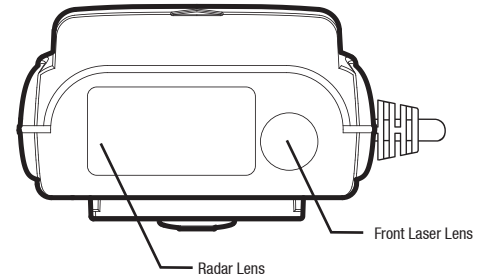


Figure 1c

## USING THE TPX™ SYSTEM VERSION 2.0

### INSTALLATION

#### Wiring the System



**Warning:** Installation of the TPX™ System Version 2.0 should be performed by a qualified technician. Improper installation may interfere with the safety and proper operation of the product and/or vehicle.

#### Power

The TPX™ Detector Unit is powered by the motorcycle's 12V power source. If the motorcycle's power output is not 12V, a voltage adapter is required.

To provide power to the unit, connect the red (+) terminal cable to a switched power wire on the motorcycle and the black (-) terminal cable to a ground point. Alternatively, you can also connect the red (+) terminal cable to the positive (+) terminal of the battery and the black (-) terminal cable to the negative (-) terminal of the battery. Route the *Wiring Harness* through the motorcycle and plug the *Wiring Harness Plug* into the *Wiring Harness Jack* on the *Detector Unit* as shown in Figure 2.



**Warning:** Connecting the *Wiring Harness* directly to the battery with the *Detector Unit* connected may drain the battery if the motorcycle is not operated for an extended period, even with the *Detector Unit* turned off. Disconnect the *Wiring Harness Plug* if the *Detector Unit* is not going to be used for an extended period of time.



**Warning:** Do not connect *Wiring Harness Plug* into the *Detector Unit* before positive (red) and negative (black) terminal cables are connected to the bike's battery.

NOTE: The system is supplied with caps for the *Wiring Harness Plug* and the *Detector Unit Power Input*. When not in use, place the caps over the connectors to help prevent corrosion.

NOTE: The *Wiring Harness* is designed with a "c-clip" on the plug. This clip can be used to secure the plug to the *Quick Release Plate* post for cable management purposes.

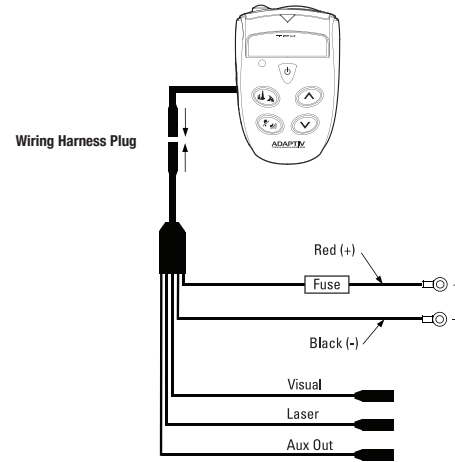


Figure 2

#### Visual Alert

The TPX™ *Visual Alert* is designed to be mounted on any part of the motorcycle that can easily be seen by the rider.

There are two mounting options for the *Visual Alert*.

Option 1: Using *Double-Sided Adhesive Tape*

- Determine an appropriate location for mounting the *Visual Alert*. The best location is one that encompasses the rider's peripheral field of view, with the LEDs pointed directly at the rider's face. The surface directly above the gauges is an ideal location on most motorcycles.
- Clean the bottom surface of the *Visual Alert* and the chosen mounting surface on the motorcycle with mild soap and water or alcohol. Rinse with water to remove all traces of soap if necessary.
- Once the surfaces are clean and dry, remove one liner of the *Double-Sided Adhesive Tape* and apply to the bottom surface of the *Visual Alert*.

- Remove the other liner of the *Double-Sided Adhesive Tape* and apply the *Visual Alert* to the chosen mounting surface on the motorcycle.
- Apply firm pressure and then allow mounted assembly to sit overnight while tape increases bond strength.

#### Option 2: Using *Cable Ties*

- Determine an appropriate location for mounting the *Visual Alert* on the motorcycle's handlebar. The best location is one that encompasses the rider's peripheral field of view, with the LEDs pointed directly at the rider's face.
- Fasten with *Cable Ties* as shown in Figure 3.

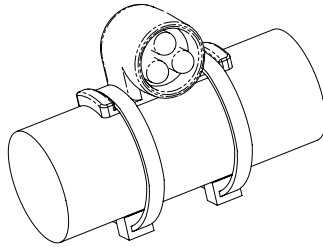


Figure 3

Connect the Visual Alert into the connector labeled "Visual" as shown in Figure 3.

#### Laser Jammer

The *TPX™ Laser Jammer System* is an optional accessory sold separately. If you have this accessory, plug it into the connector labeled "Laser" as shown in Figure 2.

#### Aux Out

The connector labeled "Aux Out" provides an additional audio output signal. This audio signal can be utilized with any number of communication systems. The connector is a 3.5mm female mono jack. Contact your communication system manufacturer for appropriate adapter device.

If you connect a Bluetooth Transmitter (sold separately) to the "AUX OUT" port, you will be able to hear the Detector Unit's audio alerts through your Bluetooth Headset. Note that some Bluetooth Headsets will only pair with a single Bluetooth device. Check with your Bluetooth Headset's manufacturer about multiple device pairing capabilities.

#### Mounting the *Detector Unit*

The *Detector Unit* comes with a *Quick Release Plate* that is compatible with any *AdaptivMount™* or third party mounts.

To install the *Detector Unit*, slide the back end of the unit into the front end of the *Quick Release Plate* until they lock together as shown in Figure 4a.

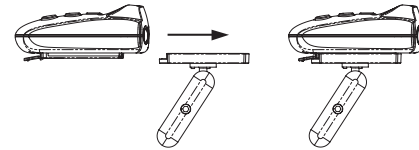


Figure 4a

To remove the *Detector Unit*, pull up on the *Release Lever* on the bottom of the *Detector Unit* and slide the unit off the *Quick Release Plate* as shown in Figure 4b.

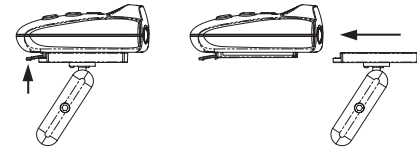



Figure 4b

For optimal performance, the *Detector Unit* should be mounted horizontal to the ground and pointing straight ahead. The front and rear of the *Detector Unit* should not be obstructed by any metal or opaque plastic objects (e.g. gauges, fairings, etc.).

Tinted windscreens will not affect performance. However, opaque (e.g. painted or mirrored) windscreens will negatively affect laser detection performance.




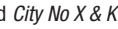



## DETECTOR UNIT OPERATION

### Power

Press and hold the  button on the *Detector Unit* for two or more seconds to turn the unit on/off. The *Detector Unit* will automatically go through a start-up sequence each time it is turned on.

If the *Detector Unit* is connected directly to the battery and is not going to be used for an extended period of time, disconnect the *Wiring Harness Plug*, as the *Detector Unit* draws a small amount of power from the battery even in the “off” position.

### City/Highway

Press the  button to toggle between *Highway* () , *Highway No X* () , *Highway No X & K* () , *City* () ) and *City No X* () , and *City No X & K* () Modes. These modes are designed to maximize performance while reducing false alerts.

*Highway Mode* is recommended when riding on open roadways where interference with the *Detector Unit* occurs less frequently.

*Highway No X* and *Highway No X & K* Modes are identical to *Highway Mode* with the exception that it ignores incoming *X* and *X & K* band signals.

*City Mode* is recommended when riding in residential, industrial, and business areas where interference is common. In this mode, the *Detector Unit* will provide an initial double beep and flash to alert you that it has detected a signal. It will then remain alert-less until the detected signal reaches four or more bars in strength. Most false alerts are weak in strength and this *Anti-Annoying™* feature is designed to cut down on the amount of unnecessary alerts.

*City No X* and *City No X & K* Modes are identical to *City Mode* with the exception that it ignores incoming *X* and *X & K* band signals.

### Volume and Brightness Control

Press and hold the  button for two or more seconds to toggle between *Volume Control* () and *Brightness Control* () Modes.

When in *Volume Control Mode*, the  and  buttons control the volume on the *Detector Unit* as well as the optional *Wireless Headset*.

When in *Brightness Control Mode*, the  and  buttons control the brightness of the flashing LEDs on the *Visual Alert*.



**Warning: The flashing LEDs in the Visual Alert can be extremely bright, especially at night time. It can be distracting and dangerous if you are not familiar with the brightness level. Before riding with the Visual Alert, especially at night, take the time to familiarize yourself with the system in a safe, controlled setting.**

The *Detector Unit*, *Visual Alert*, and the optional *Wireless Headset* will retain the last volume and brightness settings each time the power is reset.

### Alert Off

Press the  button to temporarily disable all alerts () .


When activated, the volume on the *Detector Unit* and the optional *Wireless Headset* will be muted, and the LEDs of the *Visual Alert* will not flash. The alerts will be turned off for the remainder of the existing detected signal and for any new signal received within 20 seconds of the button press. The *Detector Unit* will automatically turn the alerts back on after this period.


In response to the individual targeting nature of police radar guns, any laser signal detected during this period will override the *Alert Off* function.


### Radar and Laser Signal Detection


When a radar or laser signal is detected, the *Detector Unit* beeps and flashes at frequencies according to detected signal strength. Slower beeps and flashes indicate weak signal detection. Rapid beeps and flashes indicate strong signal detection. Each radar band or laser signal has its own distinct beep.

The LCD displays the detected radar band or laser signal and the corresponding signal strength. There are three distinct radar bands and one laser band as described below:

**X band** (X ) - The oldest and least common police radar band. Many automatic door openers and other nuisance signals use this band. An X band reading has a high probability of being a false alert. This band is ignored in *City No X*, *City No X & K*, *Highway No X*, and *Highway No X & K* Modes. However, a few remaining law enforcement agencies still use this band.

**K band** (K ) - A common police radar band. There is a slight chance of this signal being a false alert. This band is ignored in *City No X & K* and *Highway No X & K* Modes.

**Ka band** (Ka ) - The newest and a common police radar band. There is a very high chance of this signal originating from a police radar gun.

**Laser** (L ) - Growing in popularity among police traffic enforcement. There is a very high chance of this signal originating from a police laser gun.

### Button Backlights

Press and hold the  button for two or more seconds to toggle the button backlights on/off.

## TROUBLESHOOTING

If your *TPX™ Detection System Version 2.0* is not operating properly, please refer to the following guide:

Problem	Possible Causes	Possible Solutions
No display or audio on <i>Detector Unit</i>	<p><i>Detector Unit</i> not powered on</p> <p><i>Detector Unit</i> not properly connected to power source</p> <p>Vehicle not turned on (if connected to a "switched" power wire)</p>	<p>Hold down <i>Detector Unit</i> Power Button for two seconds</p> <p>Check fuse, replace with a 250V, 1A fuse if necessary</p> <p>Check power connections</p> <p>Make sure that plug is inserted into <i>Detector Unit</i> properly</p> <p>Turn vehicle on</p>
<i>Detector Unit</i> resets when vehicle goes over a bump	Poor electrical connection	Check power connections
<i>Detector Unit</i> feels very warm	Normal Operation	It is normal for the <i>Detector Unit</i> to feel warm
The <i>Detector Unit</i> did not register a signal when driving past a police vehicle	<p>Police radar is not turned on</p> <p>Non-radar or laser detection methods are being used</p>	Slow down

## TROUBLESHOOTING (CONT'D)

Problem	Possible Causes	Possible Solutions
The <i>Detector Unit</i> sensitivity appears weak	<p>The <i>Detector Unit</i> is not mounted properly</p> <p>The front and/or rear of the <i>Detector Unit</i> is obstructed</p>	<p>Check that the <i>Detector Unit</i> is mounted horizontal to the ground</p> <p>Check that the front and rear of the <i>Detector Unit</i> are not obstructed by any metal or opaque plastic objects</p> <p>If using the <i>Detector Unit</i> in an automobile, check that the detector is not blocked by windshield wipers</p> <p>If using the <i>Detector Unit</i> in an automobile, determine if the vehicle has an Instaclear®, ElectriClear®, or solar reflective windshield, which may hinder the detector's performance</p>
<i>Detector Unit</i> detects radar or laser signal but no police in vicinity	<p>Other radar or laser sources in vicinity</p> <p>Other radar detectors in proximity</p> <p>Pinched or damaged <i>Wiring Harness</i></p>	<p>Press Alert Off button</p> <p>Increase distance between radar detectors in other vehicles</p> <p>Check <i>Wiring Harness</i> and remove any pinches</p> <p>Vehicle nearby may be equipped with blind spot sensor</p>

## TROUBLESHOOTING (CONT'D)

Problem	Possible Causes	Possible Solutions
<p><i>Detector Unit</i> does not power on</p> <p>Malfunction on the display and/or sound</p>	Logic error	<p>Restore default settings:</p> <ol style="list-style-type: none"> <li>1. Power on <i>Detector Unit</i></li> <li>2. Unplug <i>Wiring Harness Plug</i> from <i>Detector Unit</i></li> <li>3. While holding down <i>Mode</i> and <i>Alert Off</i> buttons, plug <i>Wiring Harness Plug</i> into <i>Detector Unit</i></li> </ol>

### A Special Note About Group Riding:

Under certain group riding circumstances, multiple *Detector Units* may interfere with each other resulting in false alerts. If this occurs, increase following distances or turn off all but one *Detector Unit*.



## MAINTENANCE AND CARE

The *TPX™ Detector Unit* is water resistant. It is designed to withstand temporary exposure to moisture, such as rain or fog. However, it should not be exposed to moisture for a prolonged period of time. Do not leave the *Detector Unit* out in the rain when not in use. Do not hose the *Detector Unit* down. Do not submerge the *Detector Unit* as this will void the warranty.

Remove the *Detector Unit* from your motorcycle when your motorcycle is not in operation if it is exposed to an outdoor environment.

Clean the *Detector Unit* with a damp lint-free cloth only. Do not use any chemicals as they may attack the plastic.

Dry the *Detector Unit* with a lint-free cloth after it has been exposed to moisture.

## SERVICE

### Warranty Service

If you believe that your *TPX™ System* is not functioning properly please follow the following procedure:

1. Review the **Troubleshooting** section.
2. If your problem is not resolved after reviewing the Troubleshooting section, have your serial number ready and call us at 646-722-0253. We will try to resolve your problem over the phone.
3. If your *System* needs to be returned for repair, we will provide you with a Return Merchandise Authorization (RMA) Number and a shipping address. Write the RMA Number on the outside of the shipping box. Include the following items in your shipment:
  - a. The *Detector Unit* and *Wiring Harness*
  - b. Copy of sales receipt (originals cannot be returned)
  - c. Your name, phone number, address, and email address (we promise not to spam)

All shipment must be sent prepaid by way of a traceable carrier, such as UPS, FedEx, USPS Priority Mail, etc., and should be insured. Adaptiv Technologies is not responsible for any loss or damage incurred during shipping.

Warranty service will only be honored for units purchased from authorized agents.

Repairs will not be performed on units without a readable serial number.

Please allow 4–8 weeks for the return of the unit.

## Non-Warranty Service

For all non-warranty service, follow the same procedure described in the **Warranty Service** section and include a non-refundable payment of \$75 for basic diagnostics and repair. Do not send cash. If there are any additional charges, we will notify you before performing the repair.

## WARRANTY

Adaptiv Technologies, LLC warrants to the original purchaser that the *TPX™ Motorcycle Radar and Laser Detection System* will be free of defects in workmanship and materials for a period of two years from the date of first consumer purchase. The *TPX™ System* consists of the Detector Unit assembly, the Wiring Harness, and the respective parts of each. Adaptiv Technologies will, at its option, repair or replace a defective *TPX™ Radar and Laser Detection System* upon delivery to Adaptiv Technologies accompanied by the original sales receipt or other proof of first consumer purchase within the warranty period. You are responsible for all charges required to ship the product for warranty service, but the return charges will be at Adaptiv Technologies' expense if the product is repaired or replaced under warranty. This warranty gives you specific rights, and you may also have other rights which vary from state to state.

**EXCLUSIONS:** This limited warranty does not apply:

1. To any products sold separately (such as any mount assemblies);
2. To any defects caused by misuse, abuse, accidents, modifications, negligence, tampering, or unauthorized repair;
3. In the State of Virginia, the District of Columbia, or in any other country or jurisdiction in which possession of radar detector equipment is illegal;
4. If the serial number has been altered, defaced, or removed; or
5. To installation of the unit.

**ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE PERIOD OF THIS WARRANTY\*.**

\* Some states do not allow limitations on the duration of implied warranties and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you.

## SPECIFICATIONS

### Radar Frequencies:

10.500 – 10.550 GHz (X Band)  
24.050 – 24.250 GHz (K Band)  
33.400 – 36.000 GHz (Ka Super Wide Band)

### Laser Wavelength:

910 +/- 50 nanometers (nm)

### Wireless RF Transmitter Frequency:

418 MHz

### Operating Temperature Range:

-20°C to +70°C (-4°F to +158°F)

### Dimensions:

4.5" x 2.9" x 1.9"

### Weight:

7.5 oz

### Power Requirements:

12V DC

### Fuse:

1A, 250V

## US PATENTS

7,504,983  
7,830,298  
7,986,256  
8,098,184

## OTHER PATENTS PENDING

## ACCESSORIES

The following parts and accessories are available for purchase. For more information, go to [www.AdaptivTech.com](http://www.AdaptivTech.com) or call us at 866-ADAPTIV (866-232-7848) or 646-722-0253.

TPX™ Wireless Headset

TPX™ Visual Alert

TPX™ Replacement Wiring Harness

TPX™ Quick Release Plate

TPX™ Automotive Kit

TPX™ Automotive Dash Mount

TPX™ Bluetooth Transceiver

TPX™ 12V USB Power Supply

TPX™ Motorcycle Laser Jammer System

AdaptivMount™

## FCC STATEMENT

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



*Warning: Modifications not approved by Adaptiv Technologies, LLC may violate FCC rules and void user's authority to operate this device.*

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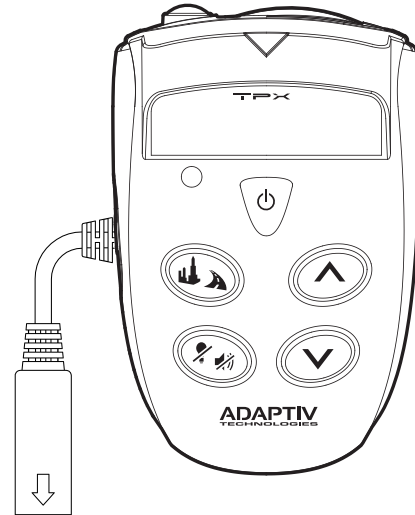
*Adaptiv Technologies, LLC*  
*www.AdaptivTech.com*

866-ADAPTIV  
(866-232-7848)

646-722-0253

# TPX™

## VERSION 2.0



### MOTORCYCLE RADAR AND LASER DETECTION SYSTEM MANUAL

# ADAPTIV™

TECHNOLOGIES