

# TPX™

## MOTORCYCLE RADAR & LASER DETECTION SYSTEM



## TPX™ MAIN CONSOLE MANUAL

**ADAPTIV™**  
TECHNOLOGIES

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

## INTRODUCTION

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

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

The *TPX™ System* 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™ System*. Enjoy your ride, and ride safe.

Sincerely,

Adaptiv Technologies

## SAFETY WARNING

When using the *TPX™ Motorcycle Radar and Laser Detection System* 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™ Main Console*
- *Wiring Harness*
- *Cable Ties*
- *TPX™ Main Console Manual*
- *Product Registration Form*

## PRODUCT OVERVIEW

The *TPX™ Motorcycle Radar and Laser Detection System* is designed specifically for motorcycle use. The *TPX™ Main Console* 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 water resistant with large, easy to operate buttons and a bright LCD display. The *Main Console* is designed to be used in conjunction with the *TPX™ Wireless Headset* and/or the *TPX™ Visual Alert* (each sold separately). We recommend the *Wireless Headset* for riders with full-face or open-face helmets and the *Visual Alert* for all other riders. Alternatively, an audio output connection is provided for those riders who choose to use the *TPX™ System* with an existing communication system.

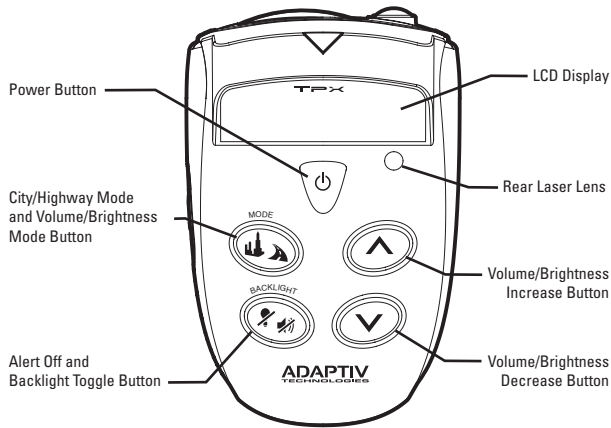


Figure 1a

## PRODUCT OVERVIEW

(CONTINUED)

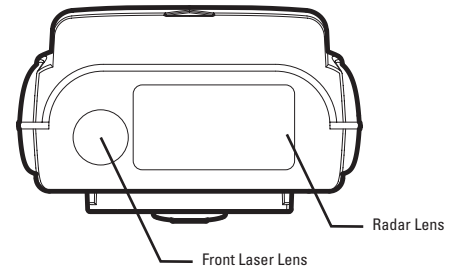
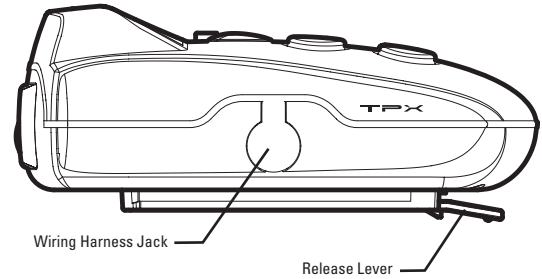


Figure 1b

# USING THE TPX™ SYSTEM INSTALLATION

## Wiring the System



**Warning:** Installation of the *TPX™ System* 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™ Main Console* is powered by the motorcycle's 12V power source. If the motorcycle's power output is not 12V, a voltage adaptor is required.

To provide power to the unit, 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 *Main Console* as shown in Figure 2.

## Visual Alert

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

## Remote Laser Sensor

The *TPX™ Remote Laser Sensor* 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 company for appropriate adapter device.

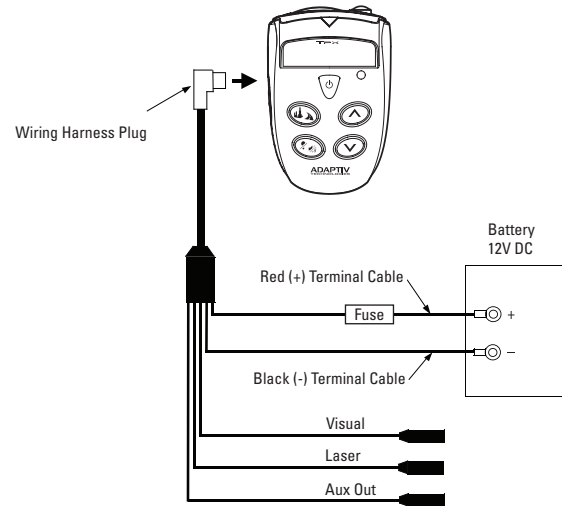


Figure 2

## Mounting the Main Console

Only install the *TPX™ Main Console* with a genuine *TPX™ Mount* (sold separately). *TPX™ Mounts* are available for most motorcycles and automobiles, as well as an adapter for use with most Techmount® or RAM® mounts.

To install the *Main Console*, slide the back end of the unit into the front end of *Mount* until they lock together as shown in Figure 3.

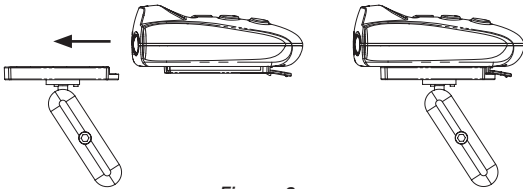


Figure 3

To remove the *Main Console*, pull up on the Release Lever on the bottom of the *Main Console* and slide the unit off the *Mount* as shown in Figure 4.

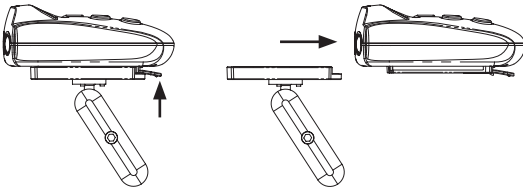



Figure 4


For optimal performance, the *Main Console* should be mounted horizontal to the ground and pointing straight ahead. The front and rear of the *Main Console* should not be obstructed by any metal or opaque plastic objects (e.g. gauges, fairings, etc.). Note that tinted windscreens may negatively affect the laser detection performance.

## MAIN CONSOLE OPERATION

### Power

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

### City/Highway


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



*City Mode* is recommended when riding in residential, industrial, and business areas where interference is common.



*City No X Mode* is identical to *City Mode* with the exception that it ignores incoming X band signals.

*Highway Mode* has the greatest sensitivity and is recommended when riding on open roadways where interference with the system occurs less frequently.

### Volume and Brightness Control

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

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

When in *Brightness Control Mode*, the  and  buttons control the brightness of the flashing LEDs on the optional *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 *Main Console*, the optional *Wireless Headset*, and the optional *Visual Alert* will retain the last volume and brightness settings each time the power is reset.

### Alert Off

Press the  button to temporarily disable all alerts (ALERT OFF).


When activated, the volume on the *Main Console* and the optional *Wireless Headset* will be muted, and the LEDs of the optional *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 *System* 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 *Main Console* beeps at frequencies according to the detected signal strength. Slower beeps indicate weak signal detection. Rapid beeps 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 four distinct radar bands and one laser band as described below:


X band () - 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 Mode*. However, a few remaining law enforcement agencies still use this band, so be careful.

K band () - A common police radar band. There is a moderate chance of this signal originating from a police radar gun. Be aware.

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

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

### Button Backlights

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

# TROUBLESHOOTING

If your *TPX™ Main Console* is not operating properly, please refer to the following guide:

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

<i>Problem</i>	<i>Possible Causes</i>	<i>Possible Solutions</i>
The <i>Main Console</i> sensitivity appears weak	The <i>Main Console</i> is not mounted properly  The front and/or rear of the <i>Main Console</i> is obstructed	Check that the <i>Main Console</i> is mounted horizontal to the ground  Check that the front and rear of the <i>Main Console</i> are not obstructed by any metal or opaque plastic objects  If using the <i>Main Console</i> in an automobile, check that the detector is not blocked by windshield wipers  If using the <i>Main Console</i> in an automobile, determine if the vehicle has an Instaclear®, ElectriClear®, or solar reflective windshield, which may hinder the detector’s performance

## TROUBLESHOOTING (CONT'D)

<i>Problem</i>	<i>Possible Causes</i>	<i>Possible Solutions</i>
<i>Main Console</i> detects radar or laser signal but no police in vicinity	Other radar or laser sources in vicinity  Other radar detectors in proximity	Press <i>Alert Off</i> button  Increase distance between radar detectors in other vehicles

### A Special Note About Group Riding:

Under certain group riding circumstances, multiple *TPX™ Systems* may interfere with each other resulting in false alerts. If this occurs, we recommend increasing following distances or turning off all but one *System*.

## MAINTENANCE AND CARE

The *TPX™ Main Console* 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 *Main Console* out in the rain when not in use. Do not hose the *Main Console* down. Do not submerge the *Main Console* as this will void the warranty.

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

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

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

## SERVICE

### Warranty Service

If you believe that your *TPX™ Main Console* 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 Service Order Number and a shipping address. Write the Service Order Number on the outside of the shipping box. Include the following items in your shipment:
  - a. The *TPX™ Main Console* 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 with Tracking, 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 with a copy of the sales receipt.

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 contact you to discuss your options.

## **WARRANTY**

Adaptiv Technologies, LLC warrants to the original purchaser that the *TPX™ Main Console* will be free of defects in workmanship and materials for a period of one year from the date of first consumer purchase. The *TPX™ Main Console* consists of the *Main Console* assembly, the *Wiring Harness*, and the respective parts of each. Adaptiv Technologies will, at its option, repair or replace a defective *TPX™ Main Console* 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 label 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, 250 V

## PATENTS PENDING

## ACCESSORIES

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

*TPX™ Wireless Headset*

*TPX™ Visual Alert*

*TPX™ Remote Laser Sensor (available end of 2008)*

*TPX™ Sportbike Mount 22-27*

*TPX™ Sportbike Mount 24-30*

*TPX™ Sportbike Mount 24-32*

*TPX™ Sportbike Mount 25-36*

*TPX™ Sportbike Mount 28-35*

*TPX™ Handlebar Mount*

*TPX™ Control Mount*

*TPX™ HC Mount*

*TPX™ KZ Mount*

*TPX™ Universal Mount Adapter (For use with RAM® or Techmount®)*

*TPX™ Automotive Mount*

*TPX™ Replacement Wiring Harness*

## 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 system.**

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