

MTG
OPTICS

RAPIER BALLISTIC LASER RANGEFINDER

USER MANUAL



Bluetooth



INTRODUCTION

CONGRATULATIONS ON PURCHASING THIS MTC RAPIER BALLISTIC which will accurately measure ranges out to 1,000 metres with an accuracy of + or – 1 metre. The Rapier Ballistic, contains a Bluetooth® module capable of connection to an external smartphone. With this feature enabled the free to download MTC Ballistic app* can be used to instantly calculate points of impacts, hold-over, even windage.

The Rangefinder emits invisible, eye safe; infrared energy pulses calculating the distance by measuring the time it takes for each pulse to travel from the Rangefinder to the target and back.

The maximum distance for highly reflective objects (such as a white house) is 1300 yards/1200 meters and a field target can reach 400 yards/370 meters.

**Find the Rapier Ballistic Calculator on the Google Play or Apple App Store.*



SPECIFICATION

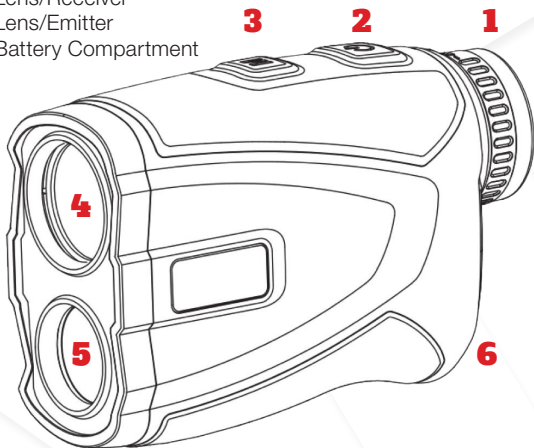
Measurement Range:	1200m/1300yd
Accuracy:	±1
Minimum Range, m:	5
Magnification, X:	6
Lens Diameter, mm:	24
Field of view, degree:	7.5
Eye Relief, mm:	18.4
Exit-Pupil, mm:	4
Eyepiece Adjustment, Diopter:	±5
Battery life:	5000 activations
Water resistance:	IPX4 (splashproof)
Power Supply/Battery:	CR2/3V Lithium
Laser Wavelength, nm:	905
Laser standards:	Class 1 eye safety
Operating Temperature:	-10...+50
Storage Temperature:	-20...+60
Auto Power OFF:	After 10 seconds or 10-40 minutes with app
Dimensions, mm/inch:	105x72x38 / 4.1x2.8x1.5
Weight (with battery):	178g / 6.2oz

PACKAGE CONTAINS

- Rapier Ballistic Laser Rangefinder
- Carrying case & carabiner
- Wrist strap
- Clean cloth
- Bluetooth earpiece
- Micro USB cable
- User manual

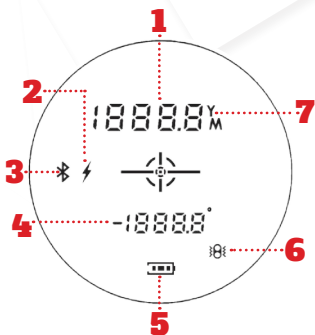
OPERATION

- 1: Eyepiece
- 2: 'POWER/FIRE' Switch
- 3: 'Mode' Switch
- 4: Lens/Receiver
- 5: Lens/Emitter
- 6: Battery Compartment



'MAIN' RANGE

1. Direct Distance
2. Laser indicator
3. Bluetooth connection
4. Angle Measure/point of aim data
5. Low battery indicator
6. Feedback buzzer
7. Metres/Yards



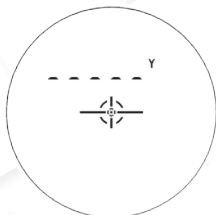
USING THE RANGEFINDER

Before using the Rangefinder please make sure the CR2 battery is inserted.

THE RAPIER BALLISTIC RANGEFINDER measures distance and angle, and this data displayed on the Rangefinders' LCD screen. When connected, this information is also sent to the smartphone app, which instantly returns the point of aim (POA) data. This POA data is then displayed instead of angle data.

POWER ON

Press the 'Power' (2) button once to switch the unit on if it is off or on standby (no display) then press to FIRE the laser to get the range. The ⚡ will flash meaning the laser is working and measuring correctly.

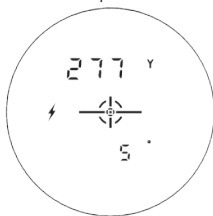


SWITCHING MEASURING UNIT (Y OR M) & VIBRATION FEEDBACK ON OR OFF

To switch depress the 'Mode' button for approximately two seconds. The first screen will appear as Step 1 below.

STEP 1

Choose Y or M by pushing the 'Power' button and confirm by the 'Mode' button and then continue to Step 2 overleaf.



STEP 2

To choose from the different reticules, push the 'Power' button and confirm by the 'Mode' button and continue to Step 3 below.

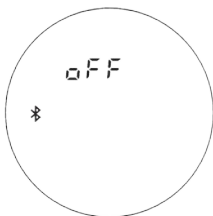


STEP 3

To switch the Feedback buzzer function Off or On, push the 'Power' button and confirm by the 'Mode' button and then continue to Step 4.

STEP 4

To switch the Bluetooth function Off or On, push the 'Power' button and confirm by the 'Mode' button.



NOTE:

When the battery symbol  is displayed you will need to replace the battery.

CAUTION!

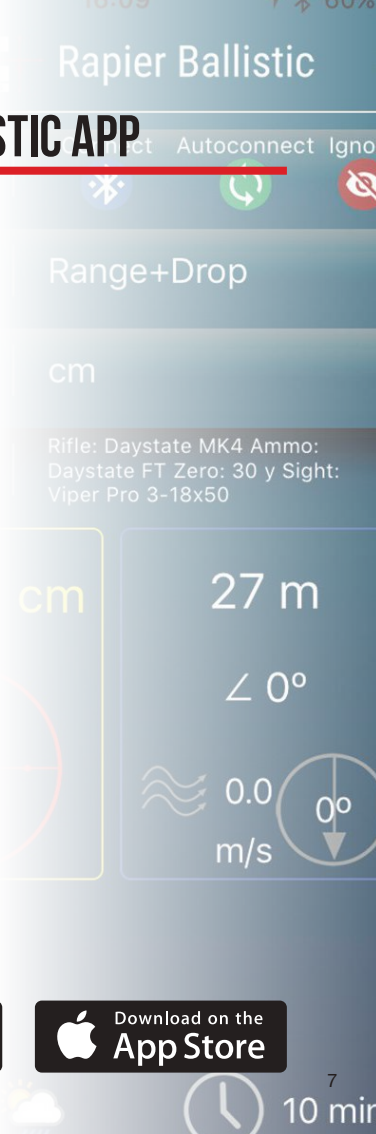
- Use a soft cloth to clean the housing, do not use an abrasive cloth or any chemical cleaning solutions.
- Keep the unit away from fire.
- Keep the unit away from dust, direct sunlight or rapid temperature changes.
- * Do not use the unit to view the sun directly. This may cause permanent eye damage.

MTC OPTICS RAPIER BALLISTIC APP

Download for free the Rapier Ballistic Calculator FREE on the Google Play Store, or the Apple App Store.

After downloading, the app can be paired via Bluetooth with the Rapier Ballistic Rangefinder.

Note that the required software version is Android v6.0 or later or IOS 9 or later.



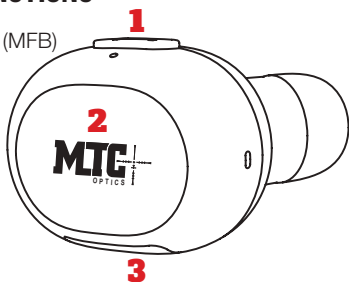


- 1.** General Settings. To select Units (Imperial or Metric) and to clear stored preferences of Bluetooth connections.
- 2.** Bluetooth connection interface. Chose "connect" to connect manually, 'autoconnect' to set automatic connection every time a bluetooth signal from a Rangefinder is available, and 'ignore' to prevent connection. List of "ignore" and 'autoconnect' networks, can be cleared any time through General Settings menu.
- 3.** Audio Menu. Allows choosing what information to make available for Audio commands, chose from short message with range only information, or longer sentences with range, angle, compensation of drop and drift to choose from.
- 4.** Rangefinder Units Setting. Choose the unit to display point of aim (POA) correction onto Rangefinder. Choose between: Centimetres, Inches, MOA, Mildots or Clicks. The chosen option will be also used to display POA correction in informational window '6'.
- 5.** Profile Presents. Up to four pre-sets can be created. A Pre-set is representing a set of data specific to particular combination of rifle-scope-ammunition. Having multi pre-sets allows one rangefinder to be used for a number of different rifles, scopes or ammunition.
- 6.** POA information window. This area is designated to display the correction needed to be made to POA in order to compensate for distance and wind. It also contains a simulator for visualisation of POA in relation to simplified mildot crosshair.
- 7.** Distance / Angle / Wind data window. This is information obtained from MTC Rapier rangefinder showing distance and angle information. Wind data needs to be entered manually. Note, that distance and angle data also can be entered manually, this allows to use MTC Rapier app as normal ballistic calculator.
- 8.** Local weather input. If you wish to include into computation obtained over internet weather readings, activate this icon.
- 9.** Rangefinder to Smartphone Timeout. Chose for how long you would like your Smartphone to be connected to the Rangefinder. This will override the 10 second timeout of the Rangefinder to 10, 20 or 40 minutes. Note: Battery life of the Rangefinder will be reduced the longer the timeout setting.
- 10.** Volume control.

USING THE EARPIECE

YOUR EARPIECE FUNCTIONS

- 1: Multifunction Button (MFB)
- 2: Indicator Light
- 3: USB Charging Port



HOW TO WEAR

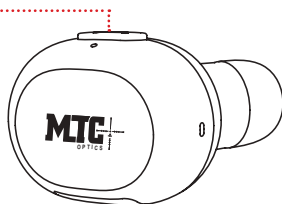
Ear tips are available in different sizes. Normally the medium ear tips are suitable for most people, so we suggest that you start with the medium ear tips.

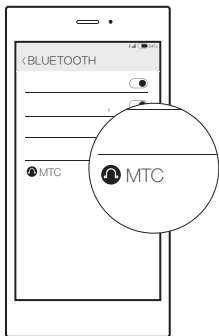
We also suggest you wear the headset in your right ear.

PAIRING

To enter pairing mode, press and hold MFB for five seconds until the indicator flashes red and blue alternately.

*Press and hold
for five seconds*





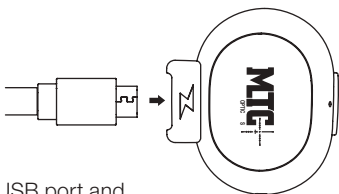
The headset will automatically connect to the last device in pairing memory when turned on.

Activate the Bluetooth function of your device, search for Bluetooth headsets and select 'MTC' from the devices list to connect.

CHARGING

When the battery level is low, you will see the indicator flash red and hear a voice prompt.

Open the cover of the USB port and plug in the micro-USB end of the cable to recharge the headset.



The indicator turns from red to blue when the headset is fully charged.



WARRANTY/REPAIR TWO OR FIVE YEAR LIMITED WARRANTY

Your product is warranted to be free of defects in materials and workmanship for one year after the date of purchase. To extend the warranty to five years, you must register your device within 30 days of purchase. Under this warranty we will, at our option, repair or replace the product, free of cost except for the return shipping cost, this warranty does not cover damages caused by misuse, improper handling, installation, or maintenance provided by someone others.

WARRANTY REGISTRATION

Visit <http://mtcoptics.com/warranty>

TROUBLE SHOOTING

If unit does not turn on or there is no LCD display visible:-

- Check the battery polarity (+ to cover) or replace with a new battery
- Depress power button

If this does not resolve the problem, contact your local distributor.

This product complies with FDA performance standards for laser products.