

# *XT Racing GPX Pro*

Product Demonstration



*Brought to you by*



# *The Unit and some of its' features...*

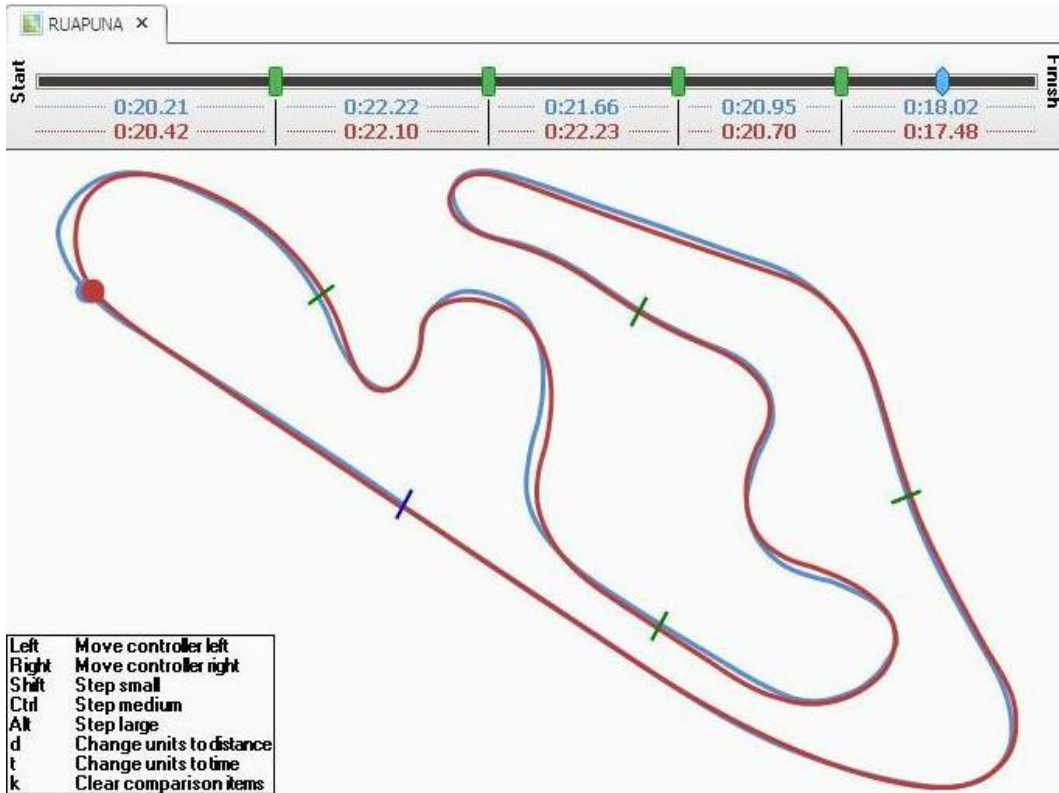
- GPS Lap timing
- Split timing
- GPS Track mapping with Many track view options
- Customizable digital dash
- Four stage Shift lights
- Data logging with 5 input channels + GPS Speed
- Hour meter / KM's travelled for maintenance
- 3 axis accelerometer
- Internal rechargeable battery

## *GPS Lap Timing*

The GPX Pro incorporates very accurate automatic GPS lap timing **without the need for any transmitters.**

Once you've set the finish line for each track, the GPX will automatically start timing from the line. (this means you'll get the same times as the transponders show)

# GPS Split Timing

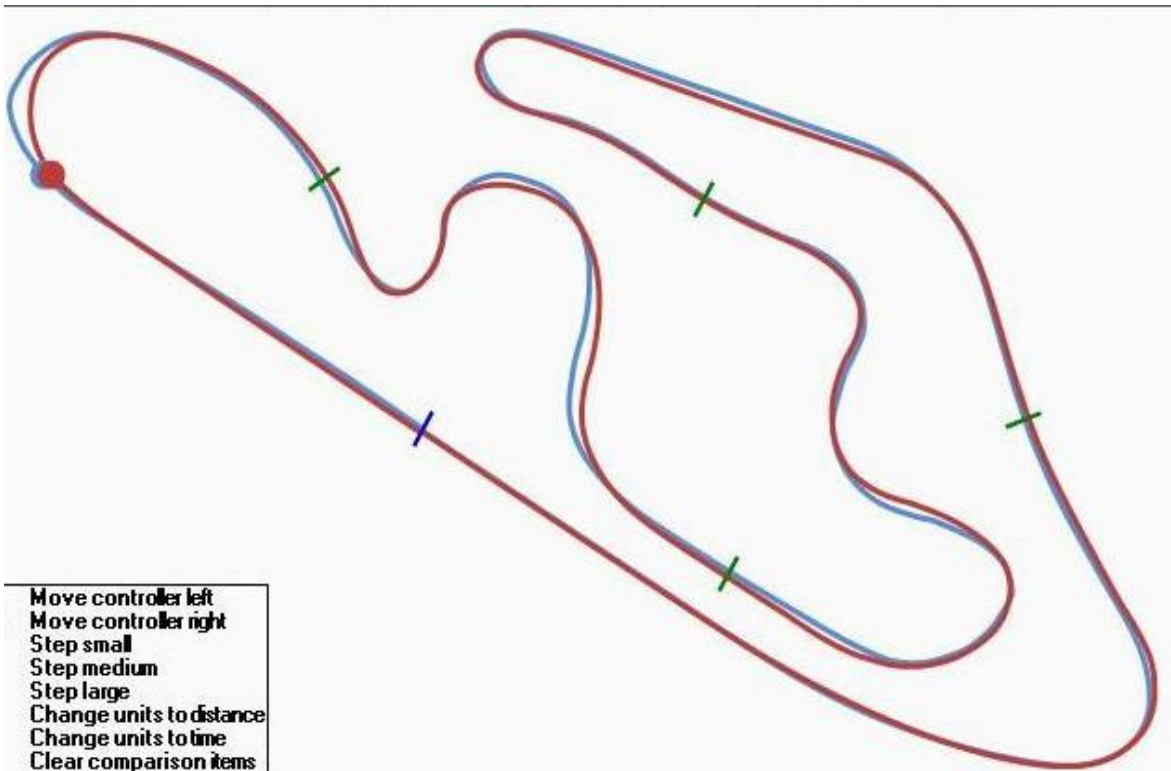


- Split times are set by the user
- Split times are displayed to rider at the end of each split sector on the track (the hold time can be adjusted)
- Split times are ideal for working on one particular part of the track at a time. For example you could set a split time for a corner you need to work on

An optimum lap time is calculated from the best split times of a session. The optimum lap time gives you a lap with all your best split times (what you can achieve if you get the whole track right all in the one lap)

# GPS Track mapping

GPS Track mapping allows the user to see what they're doing, exactly where they're doing it on the track. The below example shows the difference in race lines around Ruapuna, shown by the GPX



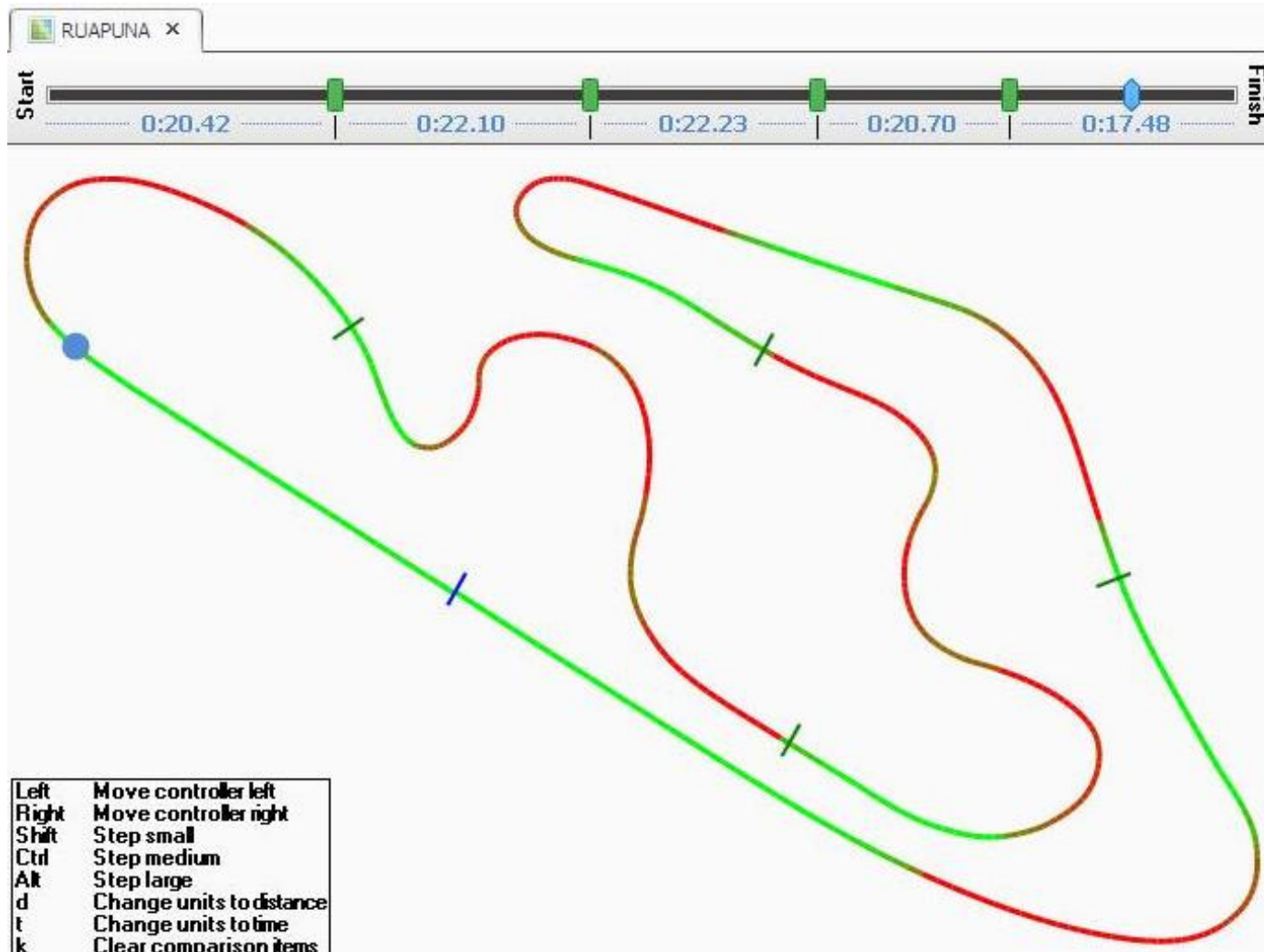
- The GPS Track map is automatically formed by the GPX on your first lap of the track.
- All you need to do is set the finish line (take your GPX to it to set it) and name the track once you come in!

# Track Views

In XT Studio, once you have a lap displayed on the screen, you can select different track views to help give you an overall picture of what's happening for example:

- Track view by Throttle position gives a good overview of the throttle position for the lap, especially useful when comparing good laps with not so good laps, and also when comparing multiple riders data

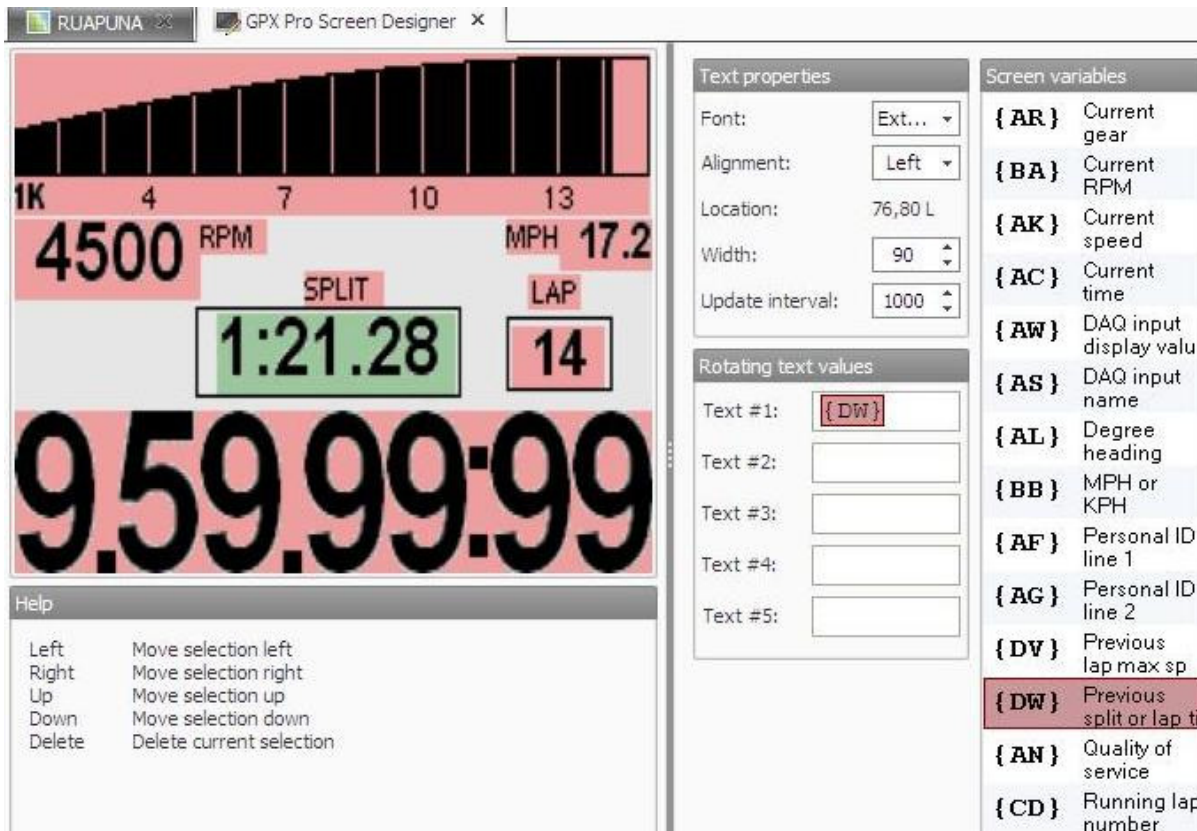
# Track view by Throttle Position



This view shows throttle position around the lap of ruapuna. Red means throttle closed through to green being wide open

# Digital Dash

The GPX Screens can be adjusted by the user to show them exactly what they want to see, where they want to see it, and how big it needs to be for them to see it.



RUAPUNA GPX Pro Screen Designer

Text properties

Font: Ext...  
Alignment: Left  
Location: 76,80 L  
Width: 90  
Update interval: 1000

Rotating text values

Text #1: {DW}  
Text #2:  
Text #3:  
Text #4:  
Text #5:

Screen variables

{AR} Current gear  
{BA} Current RPM  
{AK} Current speed  
{AC} Current time  
{AW} DAQ input display valu  
{AS} DAQ input name  
{AL} Degree heading  
{BB} MPH or KPH  
{AF} Personal ID line 1  
{AG} Personal ID line 2  
{DV} Previous lap max sp  
{DW} Previous split or lap ti  
{AN} Quality of service  
{CD} Running lap number

Help

Left Move selection left  
Right Move selection right  
Up Move selection up  
Down Move selection down  
Delete Delete current selection

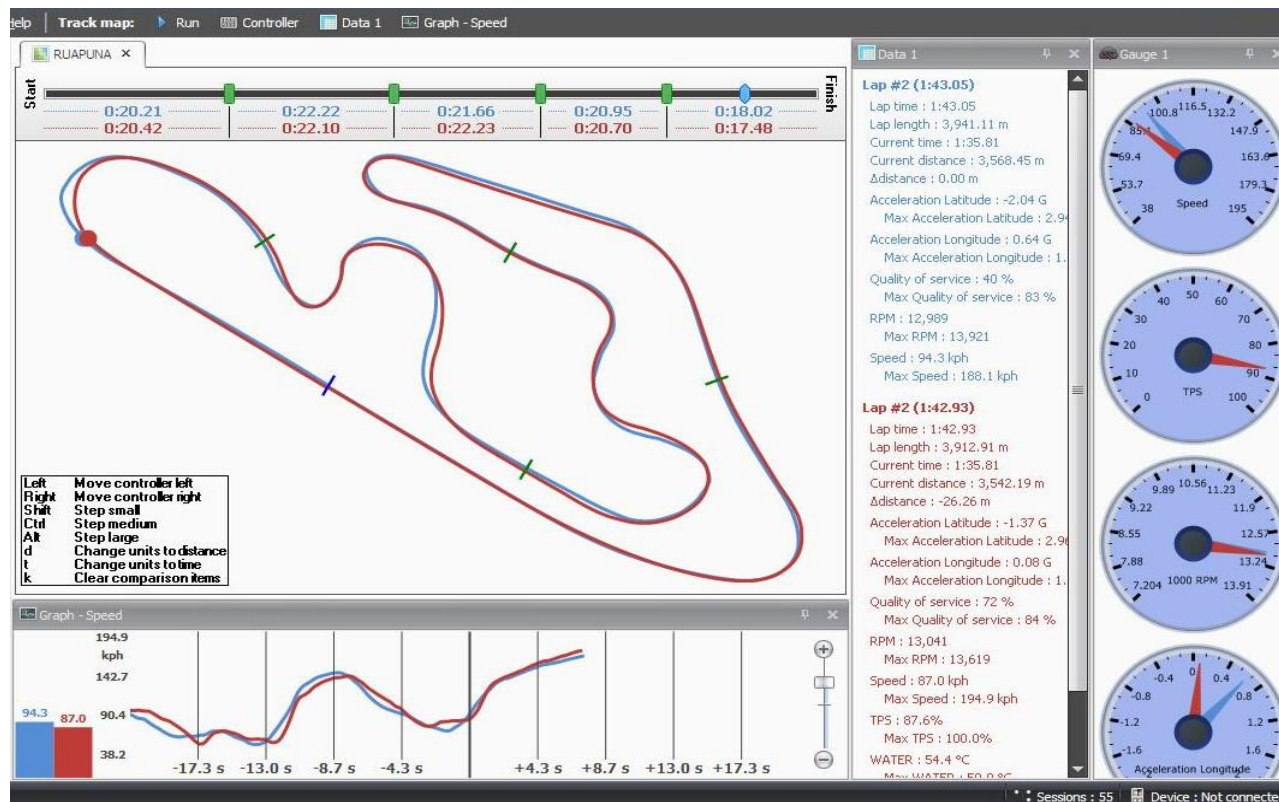
The example shown to the left shows the screen designer incorporated in the XT Studio program. This shows the spinning screen (while the rider's on the track) being adjusted. The bottom set of numbers is the lap time

# *Shift Lights*

- Shift lights are a great tool for the rider to be able to change gear at the correct time without having to physically look right at the tachometer
- The shift lights have four stages (Green, Yellow, Red and White). Each colour can be adjusted by the user (and probably the mechanic!!) to select when they want each colour to come on.

# Data Logging

- Data Logging on the GPX is made very easy with the use of the GPS track mapping to display the data. As shown below the data can be displayed in the form of gauges, graphs or in number form. All of this data is displayed as the dot moves around the track (real time, or can be slowed)



# *The 5 Data Input Channels*

- The GPX pro can log almost any analogue or digital data. Some examples of things that can be logged are:
  - Throttle Position
  - Wheel Speed
  - RPM
  - Engine Temp
  - Suspension stroke (requires extra parts)
  - Braking (requires extra parts)
- And many more!

# GPS Speed

- GPX Pro logs GPS speed automatically without any setup required. GPS speed is very accurate (wheel speed changes when the bike leans)
- GPS speed is very useful for testing engine parts/mods as the top speed is logged for each lap and session. Speed at different points on the circuit can be useful for choosing gearing (when coupled with RPM)

## *Hour meter/ KM's travelled*

- The GPX Pro records the hours done and also the KM's travelled. Once the bike starts moving and the unit changes to the 'spinning' screen, it starts counting the time and distance. With two separate counters you can keep track of your maintenance easily.

# Accelerometers

Accelerometers measure and log the forces acting on the bike. For example the amount of braking force, and the amount of acceleration off a corner. The GPX logs this data so it can be displayed after a race.

Being able to see the amount of braking force for example, helps give an overall picture of what's going on. With the use of throttle position, RPM and braking force combined, you can see exactly what's happening and how the rider/s are riding.

## *Power options for the GPX*

The GPX has an internal lithium ion rechargeable battery, which is charged from the USB port on the unit (charges while you're downloading your data). Alternatively it can be wired in to a 12 volt source, which means it will turn on automatically and stay fully charged all the time. (we recommend this option)

# Overview

- The GPX Pro is a sophisticated GPS data logger and digital dash system with user friendly data display. Even with all it's features, both the unit and the computer program are still easy to use.
- With the GPS function, lap timing with splits is very easy, and without the need for transmitters it'll mean that you don't keep leaving your transmitter on pit wall and realising half way home!
- The GPX is an excellent tool for riders to see what they're doing currently, and how they can improve. For mechanics, the data is really helpful to monitor engine temps, RPM for gearing changes, and trialing different motor configurations