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## 2 COMPUTERISED RACE SYSTEM USER GUIDE.

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### Overview

This system is self-contained within the 'Box' and comprises:

- 32GB 10" Windows 8.1 touch screen tablet PC ( Bluetooth & WiFi enabled )
- 20Ah Sealed 'Gel Type' Lead Acid battery
- Smart charger for above
- Internal Horn
- USB Interface to fire external / internal Horns and record finish times
- LCD Battery level Meter
- Waterproof keyboard
- USB A Interface for connection to external devices ( keyboard. Mouse, printer etc. )
- Outputs for External Powered Horn
- Outputs for Externally amplified Audio type Horn

### **Features**

- *Full competitor sign on*
- *Race count Down sequence timing*
- *Sounder Firing at selected intervals*
- *Race count up timer*
- *Remote trigger to fire finish sounder and record time ( Handicap Races )*
- *Full pursuit Race count up class sequence*
- *End Of Pursuit Race Sounder*
- *Full documentation printing, Handicap Record Sheets, Pursuit Delay time sheets, Pursuit Position Sheets.*
- *Production of Adjusted Handicap Results by race ( Print, email & ftp )*
- *User managed PY Handicap Tables*
- *All menus accessed via touch screen*
- *Rainproof Design*
- *Fully Portable*

### 3 GETTING STARTED

The unit should and can be left plugged into a Mains outlet to charge when not in use.

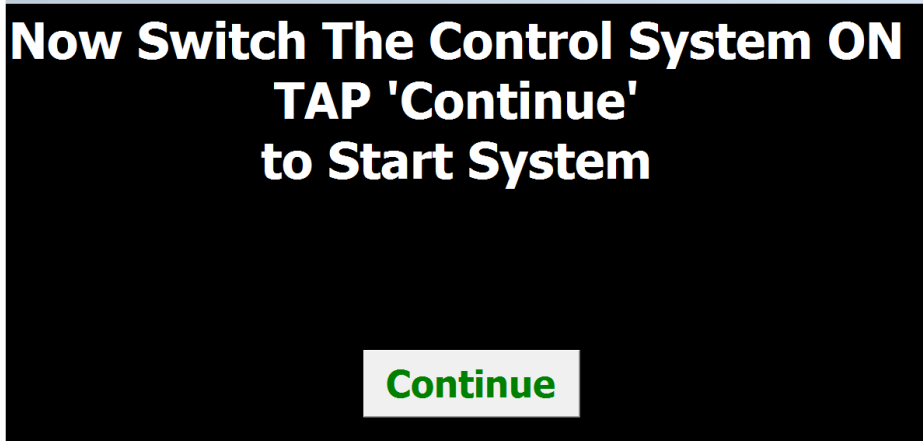
From within the clubhouse / race office at the start of the day.

- Open the Lid by sliding the two yellow catches outwards.
- **Make Sure the Black System Switch is Turned 'OFF'**



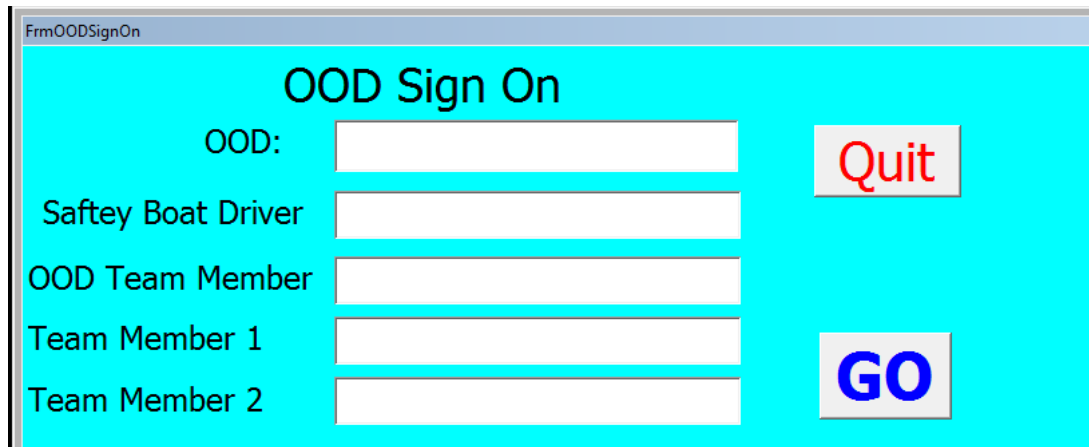
- Connect the Printer USB Cable to the Socket on the Panel ( shown left )
- Press and hold the 'Computer Power ' Button for about 2 seconds then release

- Now wait for the system to start up and the screen below to be displayed :
- Tap Continue on the Screen And you will see the Main Menu Below.





- Now Tap 'Enter OOD Details' on the Screen



- Type In all the Team Members names
- Tap 'Go'

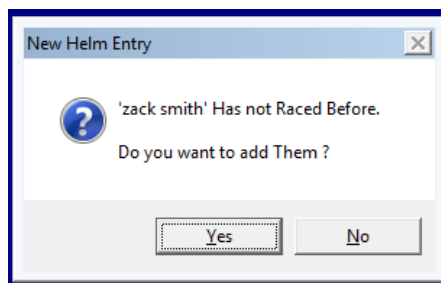
## 4 SIGNING ON

Now the system is ready for competitors to sign on.

A standard computer keyboard and mouse should also be connected for ease of use.

Each competitor will need to enter the following details :

- Boat Class – *either start typing or use the drop down arrow to the right of the field*
- Sail Number
- Helm Name - *either start typing or use the drop down arrow to the right of the field, if the helm has not signed on before, a message box will appear as below, click 'Yes' to add them and continue.*



- Crew Name – *This is the same as the helm name, however if they are a single hander, leave this blank.*
- Click or Tap 'Sign On' to finish

The competitor list will be displayed as they sign on as shown below.

**Date 12-Nov-15** **Race Sign on Sheet**

Click on the arrow next to Helmname first, if not in list type the Helm Name in, you will be asked then if they are to be added

DONE

Leave Blank if Single Handed

Sign On

Boat Class

Sail Number

Helm

Crew

2 Competitors Have Signed On So Far

Competitor List		Class	Sail Number	
Helm	Crew			
Andrew Powell	Dave Court	420	123456	DEL
Tom Holland	No Crew	CADET	22556	DEL

- If you make a mistake, and want to delete your entry, click on the 'Del' button adjacent to the competitor you want to remove.
- Once Finished, Click 'Done' at the top of the screen

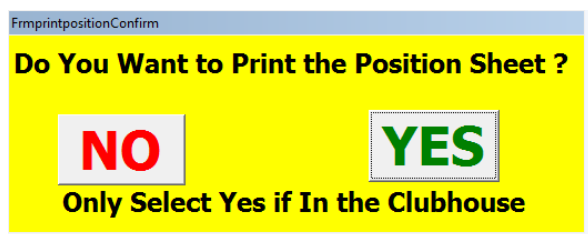
## 5 PRINTING THE RACE SHEETS

Once everyone has signed on, you will need to print your race documents to take out with you.

You can do this using either of the following methods :

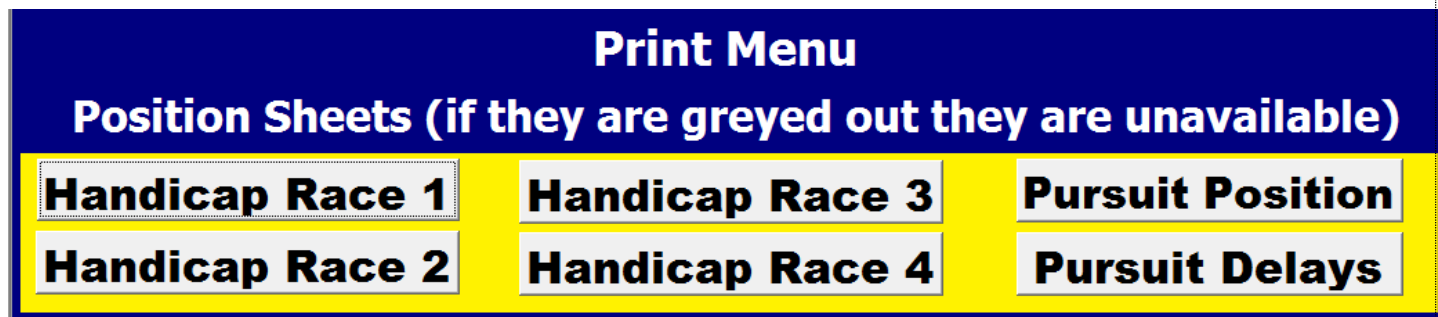
### After Clicking ‘Done’ on the Sign on sheet above

- After clicking ‘Done’ on the sign on sheet, you will get a message box as shown below, if you click ‘Yes’ to this, all the relevant paperwork will print automatically, **N.B. this is dependant on the correct series information being entered in the admin section shown later in these instructions.**



### Using the Print Menu Option from the Main Menu

- If you do not want to use the above option, click ‘No’, this will take you to the main menu
- Select Option 4 ‘Print Menu’
- You will see a warning asking you to make sure the printer is connected, if you have plugged the USB cable in, this is already done, click or tap ‘Continue’
- At the top half of the Print Menu screen, you have the option to print your sheets individually, clicking or tapping each in turn.



## 6 RUNNING RACES – HANDICAP RACE

Once everyone has signed on ( this is important, do a 'Boat Count' to check ),

**You have two options**

- 1. Run the Race using the automated features in 'The Box'**
- 2. Run the race manually and enter times in manually after the race(s)**

### 1 – Running the race using the box's automated features

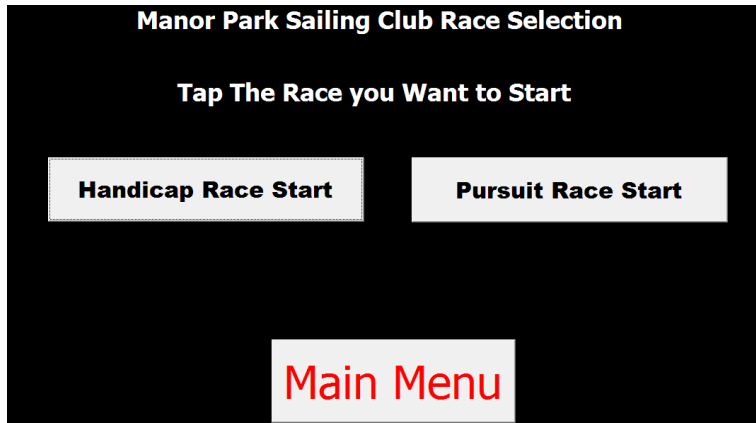
The 'Race Box' will need to be taken with you, ensure you have disconnected the white USB cable and Power lead first, then close the lid making sure you have the Hand Trigger also.

Connect the **Horn cable on the side and Remote Trigger** as shown below.

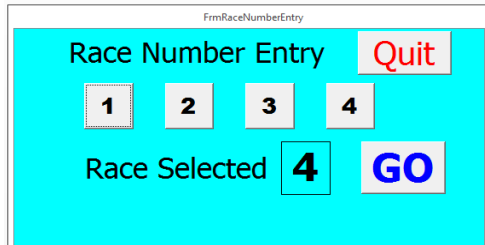


## 7 STARTING THE RACE

- From the Main Menu, Tap Option 3 ‘Race Start’ on the screen
- Now Tap ‘Handicap Race Start’ as shown below :



Now Tap which Race number you are running *note : Only those races not run will be displayed*



- Now the main timing screen is displayed, you have the option to quit back to the main menu from here if you made the wrong selection, or start the race countdown sequence.

**Make sure you have switched the Red System switch ON and selected your Hooter Internal / External.**





- Once you are ready to start, tap the Grey 'Start Race' button.

The screenshot shows the 'Handicap Race Control' interface. It features a central red box displaying '00:00' under the heading 'Countdown To Start', and a green box displaying '0:07:51' under the heading 'Race Time Elapsed'. On the right, it shows 'Race 0' and 'Participants = 5'. On the left, there are three buttons: 'Abandon Race / General Recall', 'Shorten Course', and 'Race Complete'. On the right side, there is a vertical box labeled 'Finish Tally'.

- The **Red** Box displays the count down timer, depending on your start sequence selected in **Admin**, this will start 10s before your first Hoot Signal.
  - Horn will fire at each stage i.e. 5min – 4min – 1min – GO
- At Zero Seconds, the **Red** Timer will stop and the **Green** Count Up timer will commence.
- The **Hand Trigger** can be used to finish each competitor on their last lap this will enter a position and time in the tally box on the right hand side
- Once the last competitor has crossed the line, the '**Race Complete**' button can be selected, once you have confirmed the race is complete the results are stored

## 8 COMPLETING SHEETS

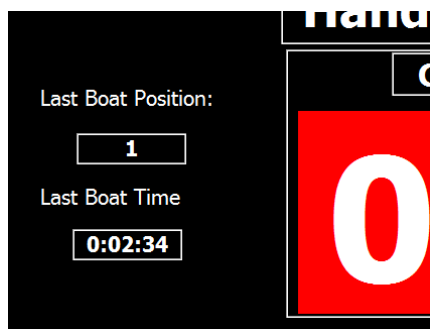
During the race it is advisable to run a separate timing device ( Race watch ) in case of any failure.

Use the Handicap Position Sheet printed out before you left shore, shown below, to enter the times each boat crosses the line after each lap ( useful for you to determine race length ), this also shows if a boat has completed less laps.

Race Position Sheet Entry For Handicap Race											12/11/2015		Frostbite	
This is to be used in conjunction with the computerised Race Controller											Time Race Started : _____			
1 - Record the race start time and finishing time of first boat											1st Boat Finish Time : _____			
2 - Record the position of each boat as they cross the line on every lap together with times.														
3 - Any boat that is over the line ( CSL ), did not start ( DNS ) or retires ( DNF ) mark the status column accordingly.														
4 - Record the boat position on the last lap into the computer.														
Sail No.	Helm	Crew	Lap 1	Lap 2	Lap 3	Lap 4	Lap 5	Lap 6	Pos	Status	Junior			
420														
123456	Andrew Powell	Dave Court	time	time	time	time	time	time						
CADET (S/H)														
22556	Tom Holland	No Crew	time	time	time	time	time	time						
Late Starters - Key These into the computer BEFORE Starting the race														
Sail Number	Helm Name	Lap 1	Lap 2	Lap 3	Lap 4	Lap 5	Lap 6	Last Lap Pos	Status					
		time	time	time	time	time	time							
		time	time	time	time	time	time							
		time	time	time	time	time	time							
OOD : Ian Sturland			Safety Boat : Fred Smith			12 November 2015								
Team Member : Jack Jones			Team Member : Bill Smith			Page 1 of 1								
			Team Member : Jackie Davies											

### Finishing

This is best done with 2 people, one to press the remote trigger as a boat crosses the finish line at the end of the race, read out their time and position, and one person to record that information on the above position sheet.

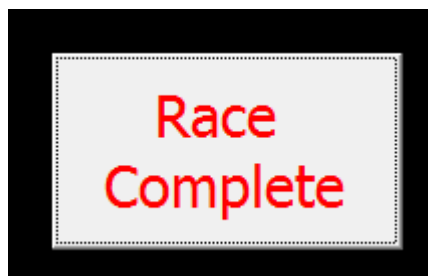


Finish Time : Record under corresponding Lap

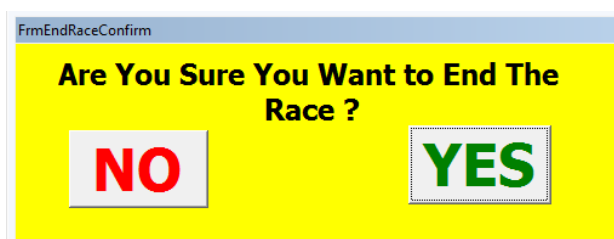
Finish Position : under Pos – This is the boats position across the line regardless of laps they have completed, i.e. 1, 2, 3, 4, - --- etc. required when entering results later

## 9 RACE COMPLETE

When the last boat has crossed the line and you are happy you have recorded all times and positions, you can finish that race's sequence.



- Of the three buttons available to you on the right hand side, shown left, Tap **'Race Complete'**
- This will then display a warning message confirming you are sure you want to end the race as below, tapping 'Yes' ends the race timing, 'No' takes you back to the count down screen



You are then taken back to the main menu. Don't worry all the data is safely saved for you to complete the results when you get back to shore.

Starting another Race is a repeat of the above, use the new position sheet for your time and position entries.

### Other Options During a Race



You have two other features you can use during a race :

- Shorten Course – this sounds 2 Horn Blasts whilst the timing continues.
- Abandon Race / General Recall – this sounds 3 Horn blasts then cancels timing and removes any timing data.

These options are only available after the Start Hooter has fired, during the countdown sequence, the buttons are not visible.

## Entering the results

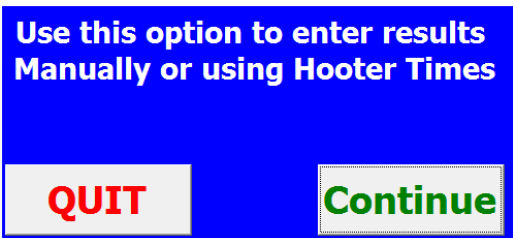
When back on shore, you have 2 options :

1. Use the system recorded times by just entering the position each boat crossed the finish line
2. Use your manually recorded times from the sheets and key them in.

### Using the System Times

If you have successfully recorded the position that each boat crossed the line and you fired the horn using the systems remote trigger, then you can use this method :

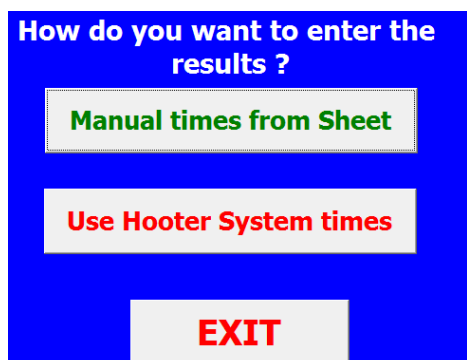
- From the main menu, select 'Results Entry'



- Tap or Click Continue at the warning box shown left



- Choose your Race



- Select how you are entering the results, 'Hooter System Times' in this case

**Which Race Number are you entering ?**

1 2

0

EXIT GO

- Select the Race Number you are entering for

**Note : Only the races that have used the system timing will show here**

FrmLapentry

Lap Entry

Quit

1 2 3 4 5 6

Laps Selected 0

GO

- Now click on the number of laps completed for the race chosen

- Now you will see a list of all the competitors signed on

Race Number : 1 Position Entry For Handicap Date : 12/11/2015

3 Laps Complete Race

Using the Position Sheet filled in during the race, select each Boat's position accordingly using the drop box on the right hand side. Once a position has been selected, it cannot be selected again for another boat, only the unselected positions will be available. If there is a DNS or DNF then tick the appropriate box. If a boat does not complete the full course, tick short course and change the lap number

Helm	Crew	Class	Sail #	Pos	Laps	Short Course	DNF	DNS
Andrew Powell	Dave Court	420	123456		3	<input type="checkbox"/> SHORT	<input type="checkbox"/> DNF	<input type="checkbox"/> DNS
Tom Holland	No Crew	CADET	22556		3	<input type="checkbox"/> SHORT	<input type="checkbox"/> DNF	<input type="checkbox"/> DNS

FrmKeypad

1 2 3

4 5 6

7 8 9

0 Enter

Exit BkSpac

- Now enter the Position for each competitor, this can be done by touch or mouse click. Simply click on the white box next to the competitor you want to enter and a keypad will pop up like on the left.


- Tap the position number then press enter.

If you make an error, then press 'BkSpac' and try again


If you enter a number greater than the number of competitors signed on, you will get a warning and your entry wont be accepted.

If you enter a position that has already been entered, you will get a warning and your entry wont be accepted.


**Short Course**

If any competitor has done less than the full race length, then tap the  button next to that competitor, this will enable entry into the 'Laps' box, this also brings a pop up keypad to enter the number of laps.

**Did not Finish 'DNF'**

If any competitor fails to finish the race, then tap the  button next to that competitor. This will automatically enter their position as last place + 1

**Did not Start 'DNS'**

If any competitor fails to start the race, then tap the  button next to that competitor. This will automatically enter their position as last place + 2

**When finished click 'Complete Race'**

**Using manually recorded times**

If you choose not to use the system times and want to enter your own then follow this method.

- Follow exactly the same steps as for entering the positions from the system times as above up to the point of **Lap Entry**.
- After Entering the number of Laps you will get the entry screen below :

Race Number : 2    Manual Position Entry For    Date : 12/11/2015

3 Laps    Complete Race

Using the Position Sheet filled in during the race, enter each Boat's Finish Time accordingly . Enter the Time in the format HHMMSS, i.e. 010613 for 1h6m13s etc. If there is a DNS or DNF then tick the appropriate box. If a boat does not complete the full course, tick short course and change the lap number

Helm	Crew	Class	Sail #	Time	Laps	Short Course	DNF	DNS
Andrew Powell	Dave Court	420	123456		3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tom Holland	No Crew	CADET	22556		3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Andrew Powell	Dave Court	420	123456		3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tom Holland	No Crew	CADET	22556		3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Enter the final finish times for each competitor, in the format hh:mm:ss i.e. 59min 20s would be 005920

**Short Course**

- If any competitor has done less than the full race length, then click the short course box next to that competitor, this will enable entry into the 'Laps' box

#### **Did not Finish 'DNF'**

- If any competitor fails to finish the race, then click the short course box next to that competitor. This will automatically enter their position as last place + 1

#### **Did not Start 'DNS'**

- If any competitor fails to start the race, then click the short course box next to that competitor. This will automatically enter their position as last place + 2

#### **When finished click 'Complete Race'**

## 10 PRINTING THE RESULTS

Once you have entered the results, you will need to print them, this not only produces a hard copy of the corrected race results, but it also emails them to the racing secretary, so you **must** print at least 1 copy.

- From the main menu, select ‘Print Menu’
- You get a warning asking you to plug the printer in, if you have plugged the USB cable in this will be done.
- When the Print Menu opens, you will see the buttons for printing the Race results now available as highlighted below

**Print Menu**

**Position Sheets (if they are greyed out they are unavailable)**

Handicap Race 1    Handicap Race 3    Pursuit Position  
Handicap Race 2    Handicap Race 4    Pursuit Delays

Class Race 1    Class Race 2    Class Race 3

**Results Sheets**

Slow Handicap Race 1    Handicap Race 1    Handicap Race 3    Pursuit Race 1  
Fast Handicap Race 1    Handicap Race 2    Handicap Race 4    Pursuit Race 2

Class Race 1    Class Race 2    Class Race 3

Quit

- Click the appropriate race to print and email those results.