

TOPIGEON PST-200



Support Information

To be informed of the latest updates and manuals please visit

www.topigeon.com

This manual made based on firmware version V9.3.47
V9.3.47 which was released in March 2024

Before you read this manual, please check your TOPIgeon clock firmware version. The manual content will

be different if your clock firmware version is different.

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Getting Started

The PST200 (Pigeon Sport Timer) is developed by Avance Technology for modern pigeon racing. Combining the most advanced technologies, we hope to provide a complete solution for pigeon fanciers and pigeon associations around the world. We hope these technologies will bring the pigeon racing game more fun and enhance the game to the next level!

Thanks for purchasing PST200 electronic timer. PST200 is a basic but complete electronic timing system (ETS) and not only complies with FCI requirements, also equipped with the most advanced communication capabilities for fanciers to really enjoy the fun of pigeon racing. PST200 is the clocking system designed in the way that all club and personal detail operation is logged for fraud protection and operation transparency which no other product can compete. The PST200 also complies with international pigeon racing regulations and fancier training management.

The LED display and rubber keypad provides the easiest and intuitive user operational environment. PST200's rubber keypad for loft information creation and a comprehensive search engine that provides fancier's with the best loft management tool.

Considering the loft environment, PST200 structure is designed for water repellent. The arc shape of PST200 is easy to hold. All the outlet ports are located in right/left & down sides of the body to avoid dripping. The rugged material machine housings (ABS+Anti-UV) and the waterproof loft antenna connector provides the most powerful and safe machine shell protection.

PST200



A quick preview of the PST200 appearance: The front side has LED display and navigation keys for fanciers to easily navigate when operating the timer.

-Above the entire screen LTE/4G Signal and Clock Time

-On the middle: Numbers of pigeons participating on Training/Race, numbers of arrived pigeons, pigeons uploaded to server, total of arrived pigeons, real GPS of the clock.

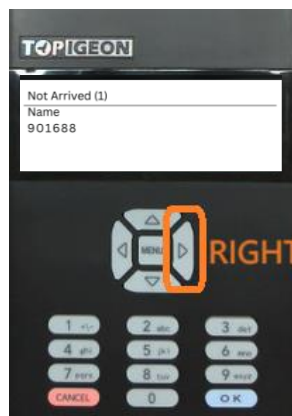
-At the bottom of the display shows loft antenna status and race type.

On the Main Screen: The navigation buttons provide basic navigation feature to operate the timer.

LEFT: Check arrived pigeons by name and time



RIGHT: Check not arrived pigeons (yet) by name



UP & DOWN:



Switch up and down to see various races: up to 5 at the same time

T: TRAINING

1: RACE 1

2: RACE 2

3: RACE 3

4: RACE 4

On the keypad has an embedded RDIF reader inside. The RDIF reader can be the backup solution if your loft antenna malfunctions. The RFID reader also can read TOPigeon chip ring's UID if your pigeon club support UID regulation. The reader can also test chip rings and help fanciers to identify the specific birds in your loft easily. Due the PST200 has an embedded RFID reader, please keep other antenna devices, such as loft antenna, club antenna and others clocks have RFID reader a distance away to avoid interference and we suggest a distance of 60 cm (2 feet) or above for this operation.



On the bottom side, a Standard Power Plug that is compatible with all type of TOPigeon power adapters, next to, have a DIN connection that is to connect the cable connector Clock to loft antenna. Also have a 3.5mm audio stereo female jack to connect speaker for audio out.



On the right side, a MiniDIN connector is to connect to the Club Master.



Loft Antenna

4 Channel Loft Antenna

The loft antenna shelling is made of super strong material which provides the protection like clocking timer does. Inside the antenna, all the printed circuit board is painted by waterproof plastic glue. The antenna is modularized designed which is easy for maintenance works. For example, should cable ever break, fanciers can just replace the cable instead of getting rid of the whole antenna. The connector of the club antenna is special patent designed. The connection follows by DIN (RS-485) standard and the connector has special patent design which provides air tight connection, waterproof and super light even outdoors. The following is specs of the antenna.

With anti-collision and anti-interference mechanism design, high reading distance with maximum clocking speed
Flat and water resistant
5m (15 feet) connecting cable is included.
sizes: 540mm x 186mm x 35mm



Accessories

TOPigeon Mini Din cable

Is supplied for use:

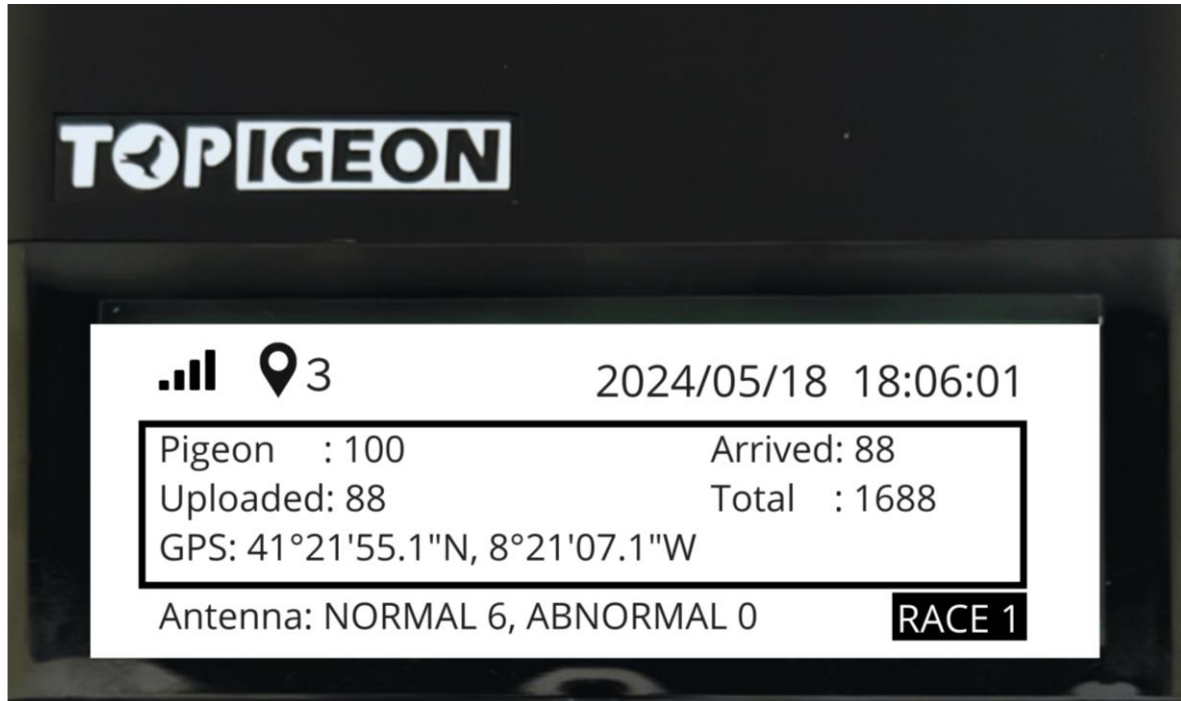
Connect the PST200 clock with Club Master for race management and basketing.



Functional Description

Main Screen

The PST200 main screen is showing all the information you need in a race/training.



RTC Time

2024/05/18 18:06:01

On the right side of the top bar the time of timer's real time clock (RTC).

Pigeon Status:

Pigeon : 100	Arrived: 88
Uploaded: 88	Total : 1688
GPS: 41°21'55.1"N, 8°21'07.1"W	

Pigeon #: The number of pigeons in your clock.

Arrived: The number of pigeons arrived in training/race.

Uploaded: The number of pigeons arrived and uploaded to cloud web page.

Total: Total number of pigeons arrived of club RACE, it is given by the server.

GPS Coordinate of the Clock:

GPS: 41°21'55.1"N, 8°21'07.1"W

GPS: is showing you the GPS status, if GPS coordinate obtained the coordinates will show. Please note that PST200 has also embedded the AGPS which needs at least data signal support. In order to get the data signal you also need to turn on the Data Upload.

Antenna Status

Antenna: NORMAL 6, ABNORMAL 0

Antenna: shows the loft antenna status, and if the antennas are correctly connected to the timer.

Both Club antenna and 4 channel antenna it is showing when it is connected as normal.

T **1** IDLE **1** BASKET **1** OPEN

Timer status: have 2 types of races: TRAINING and RACE

T means training

Number 1 to 4 means count number of race in clock, each race have 4 type of status: IDLE, BASKET, OPEN, CLOSE

Race IDLE: Race created, ready for basketing

Race BASKET: Race basketing, race hasn't started yet

Race OPEN: Race started

Race CLOSE: Race closed

Configuring your device:


Method to input data to the clock: Use the Keyboard



NUMBER PAD: you can input + / - / . symbol, numbers and letters from "A" to "Z".



Hold the button with the letter/sign, the letter and sign will switch automatically. For example, to input “TOPIGEON”, press button 8 – 6 – 7 – 4 – 4 – 3 – 6 – 6 , wait until the desired letter appear, loose the button and press the next button.

Zero Button: 

Number Zero or space.

ARROWS BUTTON: 

Select left/right options.

Select up/down settings.

CANCEL BUTTON: 

Single press CANCEL button will re'turn to previous page.

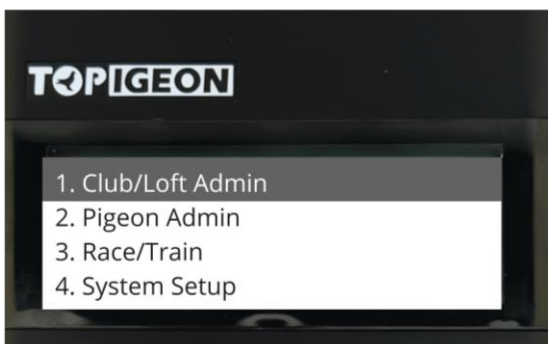
HOLD CANCEL button works as backspace and delete the letter/sign/number you input.

OK BUTTON: 

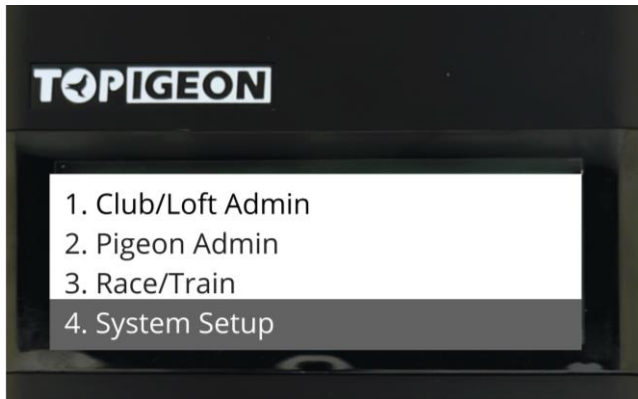
Works as continue or accept.

Menu button 

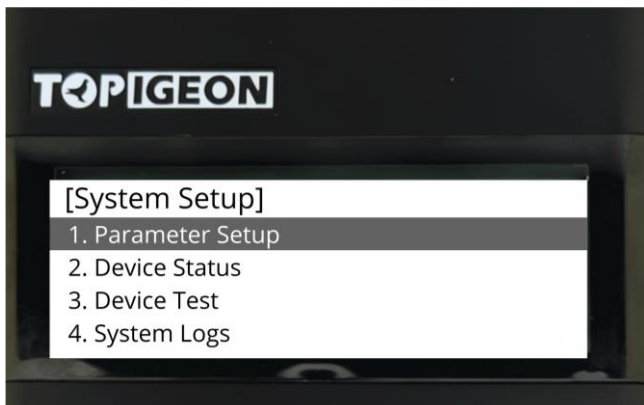
The main menu has 4 operational options that provide all operational functions.



System Setup Menu

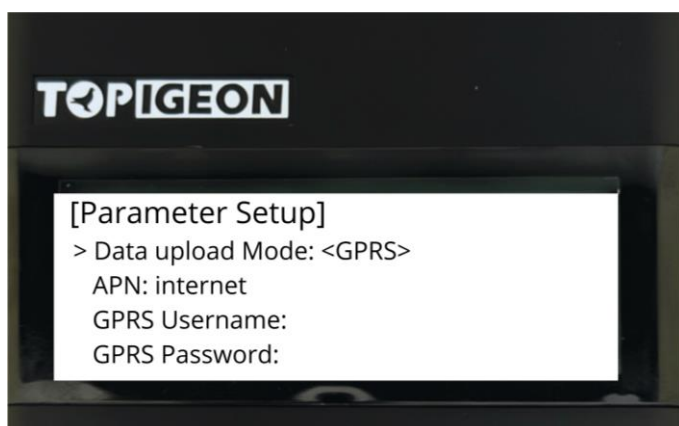


There are 4 menu in System Setup:



1. Parameter Setup (has 3 pages)

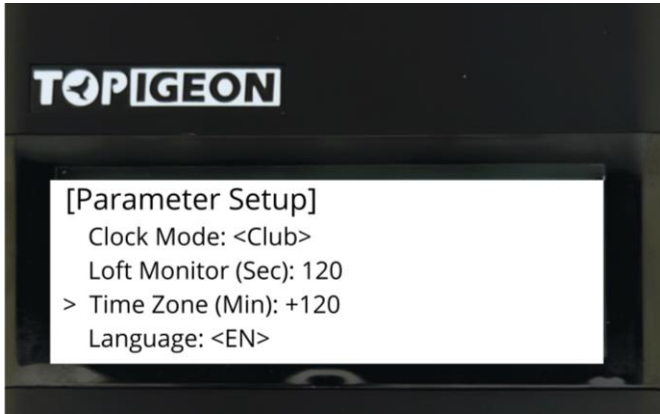
Data Upload Network Setup



Set APN name.

If there are username and password in the APN settings, it is needed to input, if not, leave it empty.

Time zone setup



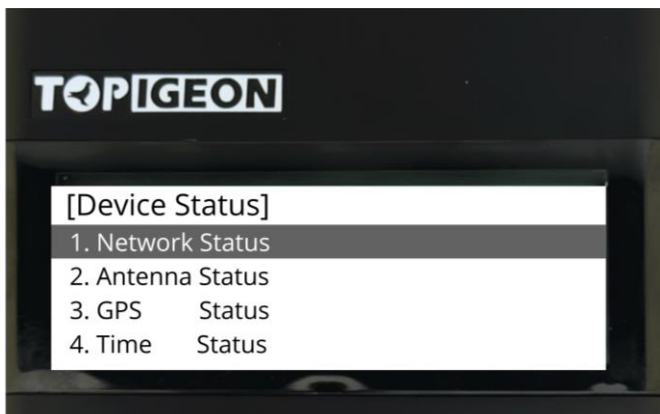
It is possible to set up the time zone here, please be careful that the time zone unit is “minutes”.
Example: if it is +2 time zone, it should be 120 mins, if it is -3 time zone, it should be -180.



In the third page you can check the device number/device serial number

Network/Antenna/GPS/Time Status

2. Device Status



1. Network Status:

0x01 Network Normal

0x02 Network Failure

0x03 Network Failure

0x04 Network Failure

0x05 Network Failure

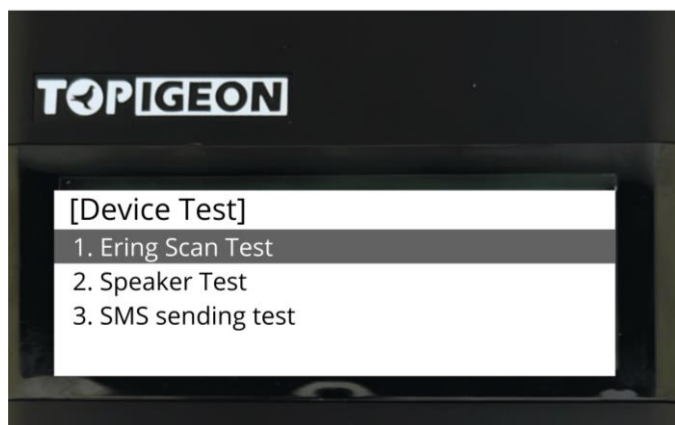
0x06 Network Failure

0x07 Roaming setup failed

2. Antenna Status: it is very important, every time you connect a club antenna and 4 channel pad antennas, it is needed to check the antenna status to establish the connection. Fast hotkey: 4-2-2.
3. GPS Status: It shows your GPS status, it shows your position.
4. Time Status: Clock time, Master Time (if is connected), Time Zone

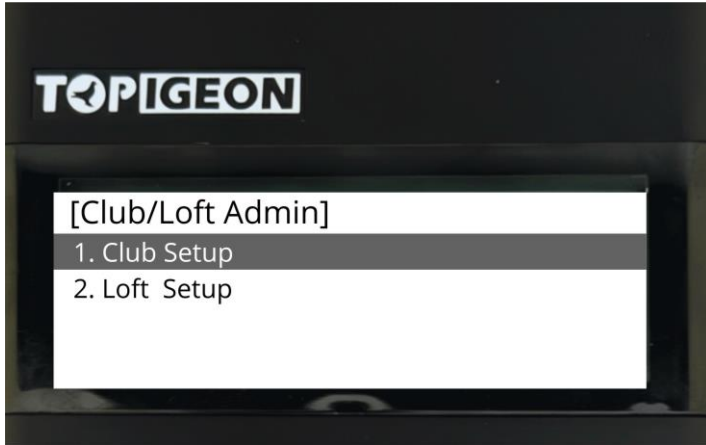
Test Ering/Speaker/SMS Sending

3. Device Test

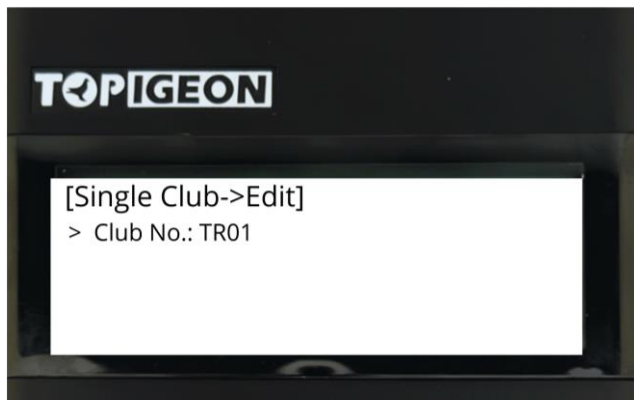


1. Ering Scan Test: Test scan with clock or pad antenna, can be used to check the electronic chip ring number.
2. Speaker test: not available yet.
3. SMS sending test: not available yet.
4. Time Stamp: now it is possible to check the GPS coordinate and clock time.
5. Time Print: Print Club Antenna Master time.

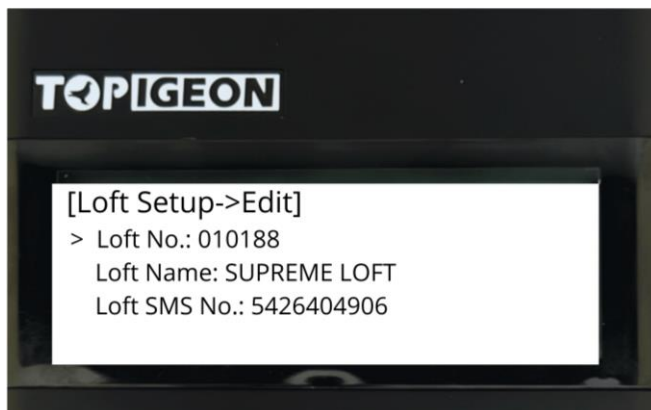
Club/Loft Admin Menu:



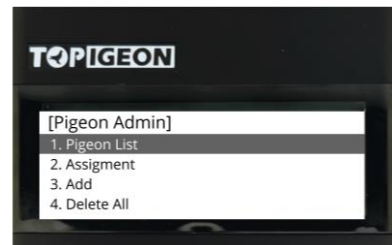
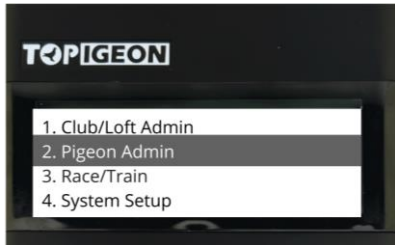
1. Club Setup: Configure your Club ID, it is important, one club has UNIQUE club ID, all your printed data will have this club name.



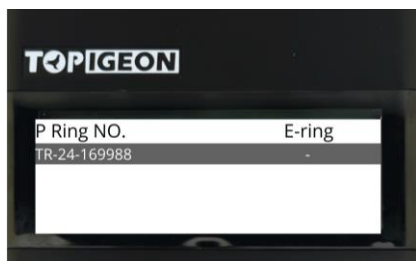
2. Loft Setup: Configure your Loft number, all your printed data will have this loft number.



Pigeon Admin Menu

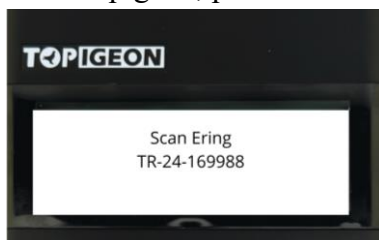


1. Pigeon List: Check the list of the birds of your clock.



2. Assignment: Couple pigeon list's birds with electronic chip rings.

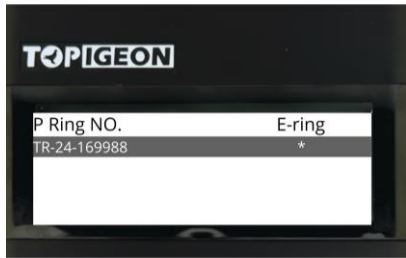
- Choose pigeon, press OK



- Pass the electronic chip ring on the RFID antenna

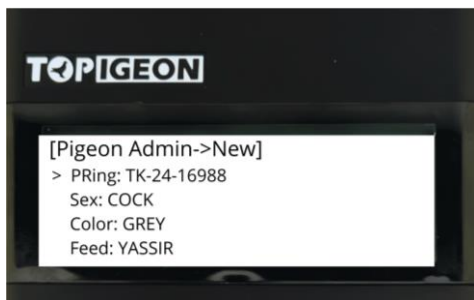


- In Pigeon List display, if pigeon have a * mark, means it is coupled with a electronic chip ring



Choose P Ring No. and press OK to check the chip ring number of the pigeon.

3. Add: Add pigeon to pigeon list



4. Delete all: Delete all pigeon list (use with caution)

5. Print Pigeon List

```

+-----+
|                                     |
|                                     |
|                                     |
+-----+

```

```

CLUB: 00001          LOFT No: RUK0001
MARKER ID: 5027FDCC  CLOCK ID: 146C41FE
MEMBER NAME: PGAD 111

```

No.	Bird	e-Ring	Sex	Color	PreNom
1	TW00000001	00404047	C	BL	
2	TW00000000002	2330342B	H		
3	TW000003	00353806	H		
4	TW0000004	00002113	S		
5	TW000005	23303015	D		

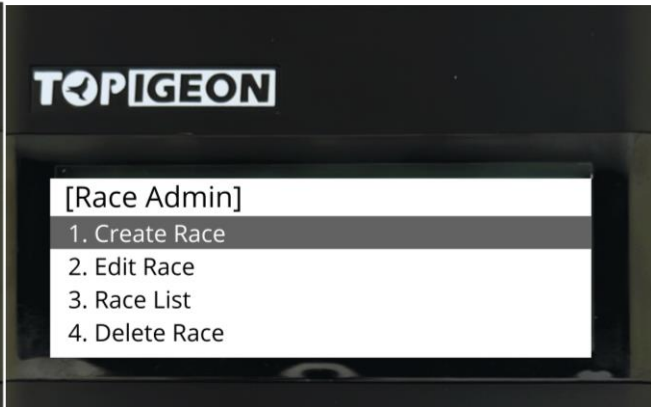
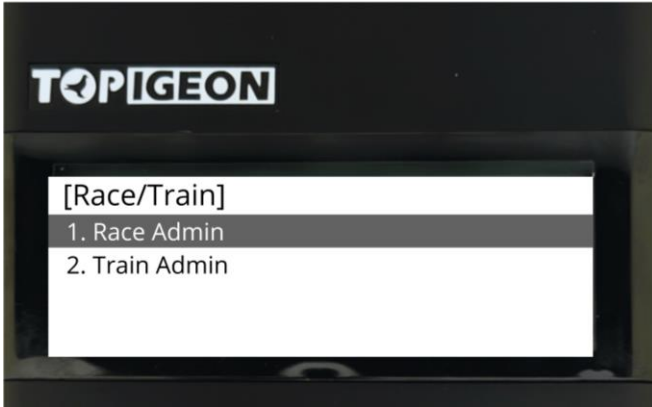
Total Pigeon: 5

Printed Time: 27/04/2023 11:15:22

All entered pigeons have been fully vaccinated against Paramyxovirus and are registered in my name.

Signed member: Flyer: Club: Clock Checked: .

Race Menu



1. Create Race:

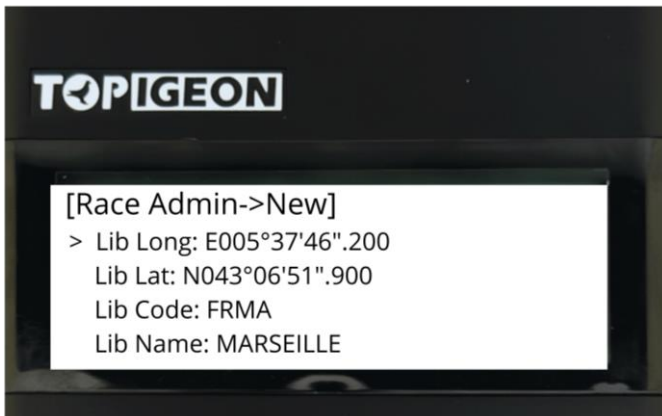
There are 3 pages required to fill the below data to create RACE:

Page 1:

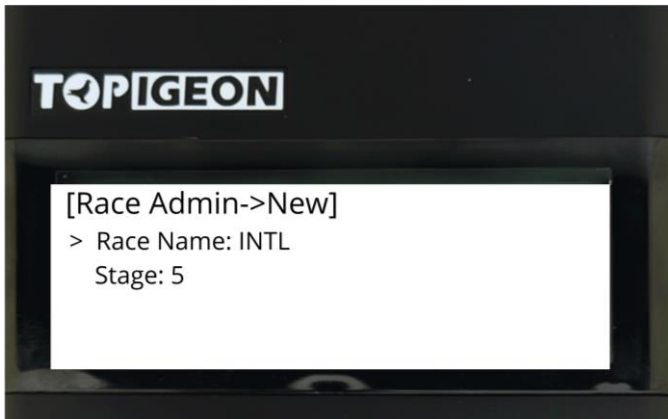


- Club: Automatically filled by your Club setup.
- Loft: Automatically filled by your Loft setup.
- Race No.: Important to be filled. (*Required)
- Date: The race date.

Page 2:



- Liberation Longitude and Latitude: Liberation point coordinates, for speed calculation. (Optional)
- Lib Code (Optional)
- Lib Name (Optional)

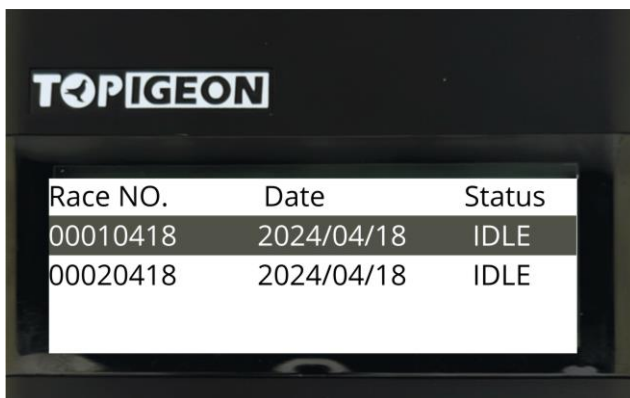


- Race Name: *Required
- Stage: If there are stages in your race season (optional).

2. Edit Race: You can modify the race information of the created race.

3. Race List: It will list all your races in the clock, by selecting the race, you will have more options. You can see the status of each races: IDLE/BASKET/OPEN/CLOSED

A maximum of 4 races at time is allow it. If you need add more races, please delete race.



Race NO.	Date	Status
00010418	2024/04/18	IDLE
00020418	2024/04/18	IDLE

- IDLE: When race waiting for do Race Basketing.
- BASKET: When it is still in basketing process, race hasn't start
- OPEN: Active race, race pigeon arrivals can be scanned.
- CLOSE: Race closed, race pigeon arrivals cannot be scanned. You can print the final reports.

In the race list, by selecting the race, you can enter the race admin

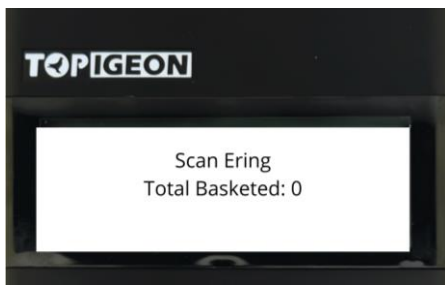
4. Delete Race: it will show the race list, and allowed delete the race that is selected. Use it carefully, once race deleted, the race cannot be recovered.

Race admin: In different mode of the race, selecting a race in the race list, you can find different options.

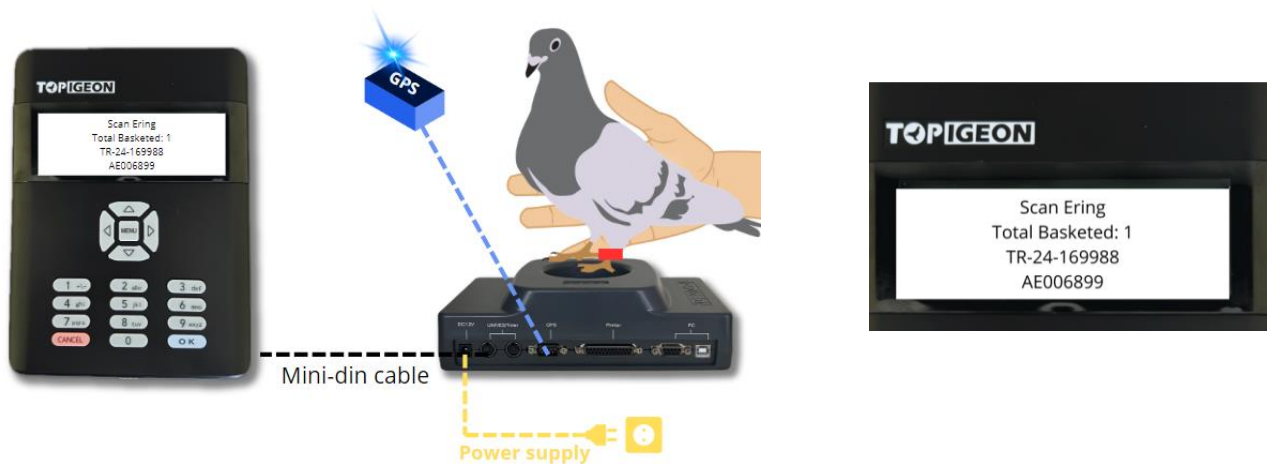
- A. **IDLE mode to BASKET mode:** Race basketing and delete race basketing only allowed before enter to start basketing, connect the ETS with Club Antenna (GPS connected) and verify the GPS is connected with **solid blue light**. (Need club antenna)



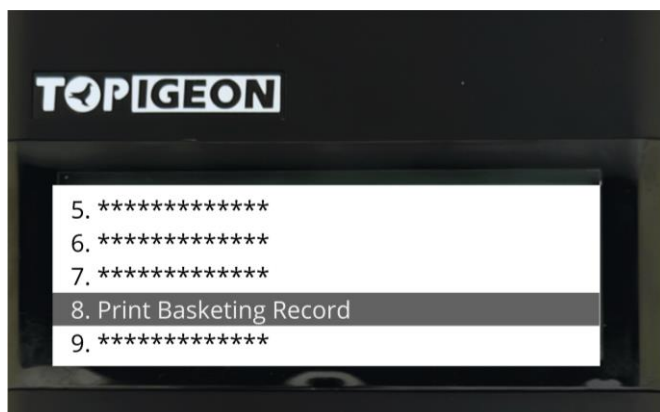
Press OK to process Scanning birds



Pass the chip ring on the Master Club hole.



When finished basketing process, It is needed to press OK button, then back to Race Admin menu to continue for Printing Basketing Record.



```

+-----+
|                                     |
|                                     |
+-----+

```

```

CLUB: 00001          CLOCK ID: 146C41FE    PRINTED: 27/04/2023 11:20:35
MEMBER NAME: PGAD 111    LOFT No: RUK0001    TELEPHONE:
ADDRESS:

```

```

TIME SET: 27/04/2023 11:17:03    MEMBER'S CLOCK: 27/04/2023 11:17:03
VERSION: 0.1.21                TIMEZONE: UTC+08:00

```

```

ASSOC CODE:                RACE CODE: 22000550
MARKER ID: 5027FDCC        KEY CODE:42443038
LIBER CODE: D333           LIBER SITE: 04270001

```

No.	Bird	e-ring	Sex	Color	Marked Day	Marked Time	Nom.
1	TW000000000002	2330342B	H		27/04	11:16:49	0001
2	TW000005	23303015	D		27/04	11:16:55	0002
3	TW00000001	00404047	C	BL	27/04	11:16:57	0003
4	TW0000004	00002113	S		27/04	11:17:00	0004
5	TW000003	00353806	H		27/04	11:17:03	0005

```

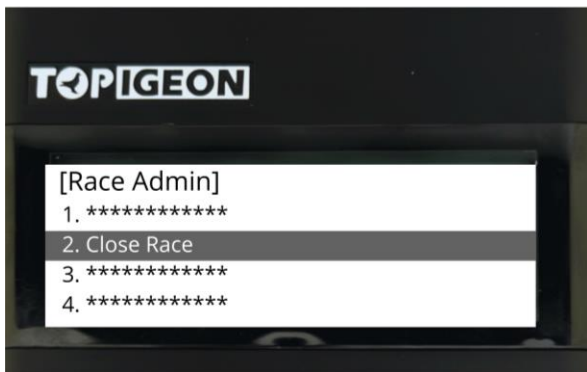
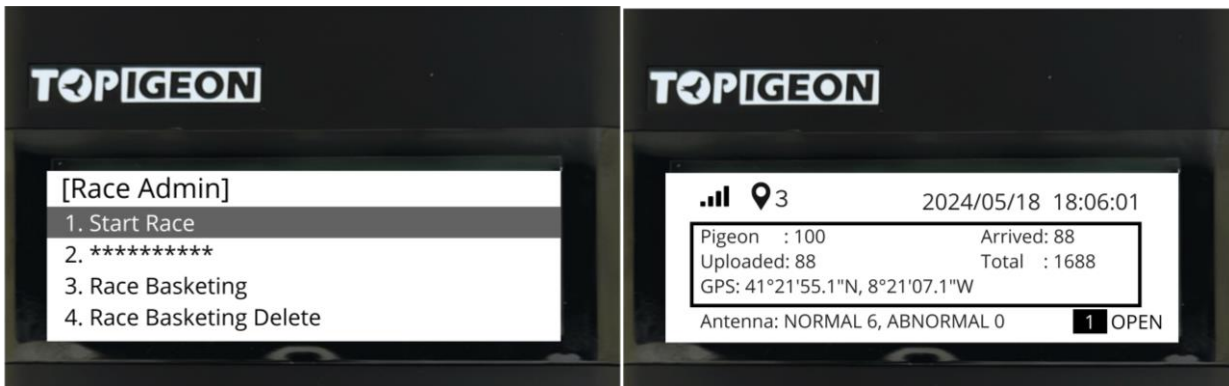
Total Marked: 5          Total Hens: 2          Total Cocks: 1
Last Marked Time: 27/04/2023 11:17:03

```

All entered pigeons have been fully vaccinated against Paramyxovirus and are registered in my name.

Signed member: Flyer: Club: Clock Checked:

B. **BASKET mode to OPEN mode:** when basketing is done, press Start Race, the basketed birds participating on the race will scan and recorded on the race. The status of the race will become OPEN.



OPEN mode: Race Admin page 1

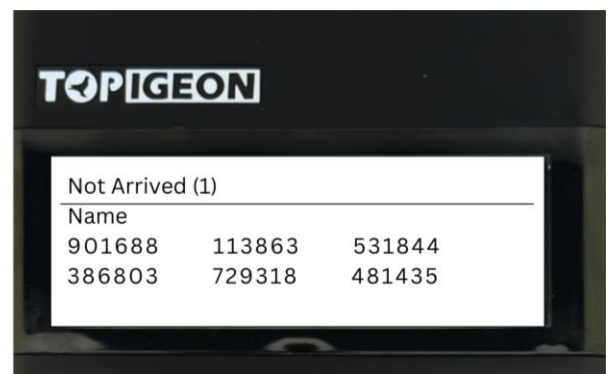
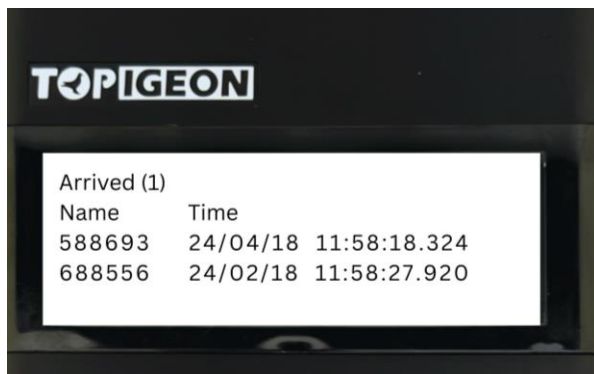
Close Race: When the race should be closed

Arrival Records: You can see the arrival records here.



OPEN mode: Race Admin page 2

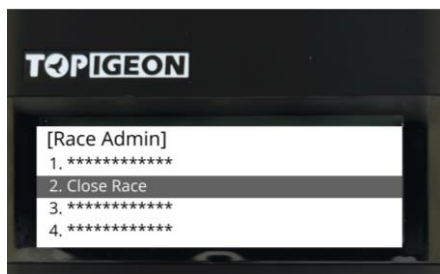
Not Arrival Records: You can see the missing birds records.



Print Basketing Records (Need club antenna): Printout the basketing list of the race.

C. OPEN mode to CLOSED mode:

After the arrivals, you can close the race and all the birds coming in after closing the race, won't be counted.



Choose and press Close Race



Print Race Records: Only when race is closed.

```

+-----+
|                                     |
|                                     |
+-----+
|                                     |
|                                     |
+-----+
CLUB: 00001          CLOCK ID: 146C41FE   PRINTED: 27/04/2023 11:19:21
MEMBER NAME: PGAD 111    LOFT No: RUK0001   TELEPHONE:
ADDRESS:

TIME SET: 27/04/2023 11:17:03      MEMBER'S CLOCK: 27/04/2023 11:17:03
STRIKE SET: 27/04/2023 11:19:16    MEMBER'S CLOCK: 27/04/2023 11:19:16
VERSION: 0.1.21                    TIMEZONE: UTC+08:00

ASSOC CODE:                      RACE CODE: 22000550
MARKER ID: 5027FDCC              KEY CODE:42443038
LIBER CODE: D333                 LIBER SITE: 04270001
Total Marked: 5                  Total Arrived: 3

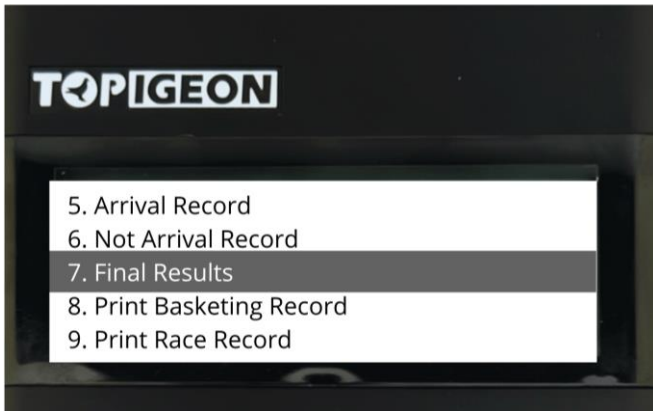
+-----+-----+-----+-----+-----+-----+-----+-----+
| No. | Bird | e-ring | Sex | Color | Day | Time | Nom. | Secret Num |
|-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | TW00000001 | 00404047 | C | BL | 27/04 | 11:18:17 | 0002 | 7F 7F OK |
| 2 | TW000005 | 23303015 | D | | 27/04 | 11:18:22 | 0001 | 0F 0F OK |
| 3 | TW000003 | 00353806 | H | | 27/04 | 11:18:26 | 0004 | 8A 8A OK |
+-----+-----+-----+-----+-----+-----+-----+-----+
Total Hens: 2      Total Cocks: 1      Yearlings: 0

All entered pigeons have been fully vaccinated against Paramyxovirus and are
registered in my name.

Signed member:      Flyer:      Club:      Clock Checked:
  
```

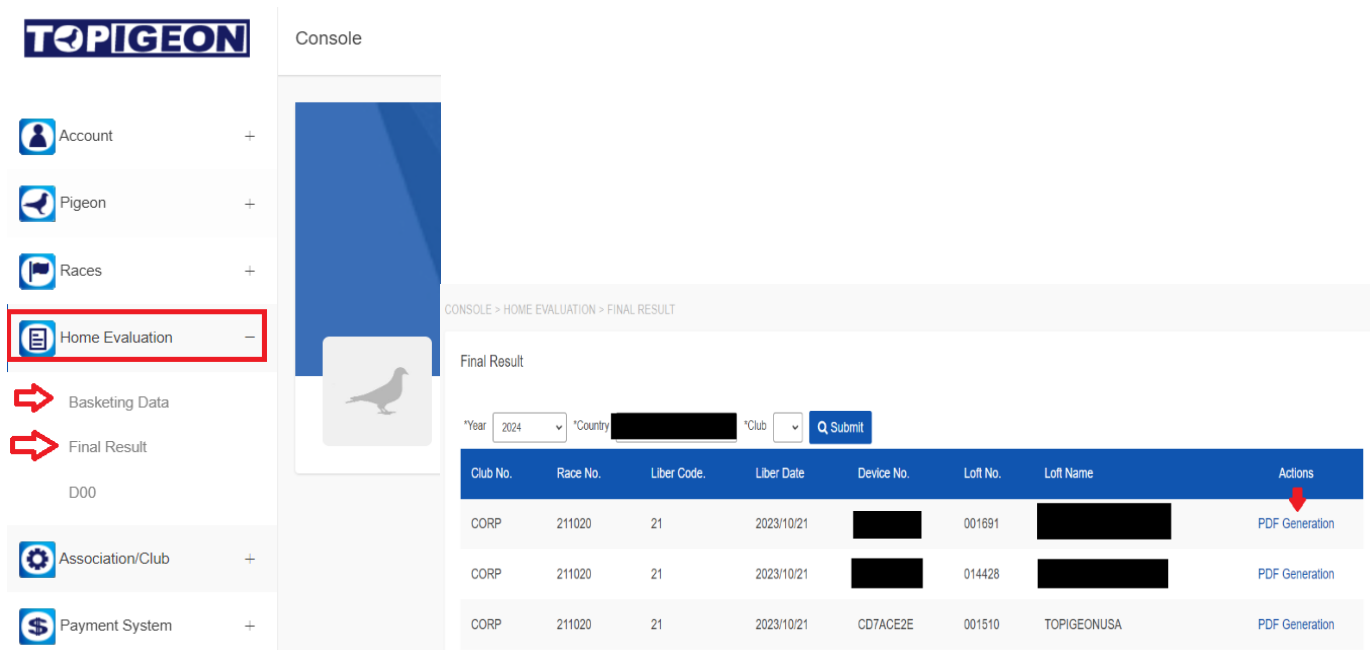
HOME EVALUATION

- Once basketing process has been done, basketed list will be automatically uploaded to Topigeon Cloud Server, and you can download the basketing list from home evaluation files from the internet.
- For the final evaluation (Race result/Final Strike/Validation):
After the race is closed, select the sub menu 7 Final results. And it will be uploaded to the Topigeon Cloud Server, and you can download the final evaluation file from the internet.



Download it from: <https://www.topigeon.com/console/login.asp>

Only Club Secretary with Club admin account it is possible to access for download now.



Console

Account +

Pigeon +

Races +

Home Evaluation -

Basketing Data

Final Result

D00

Association/Club +

Payment System +

CONSOLE > HOME EVALUATION > FINAL RESULT

Final Result

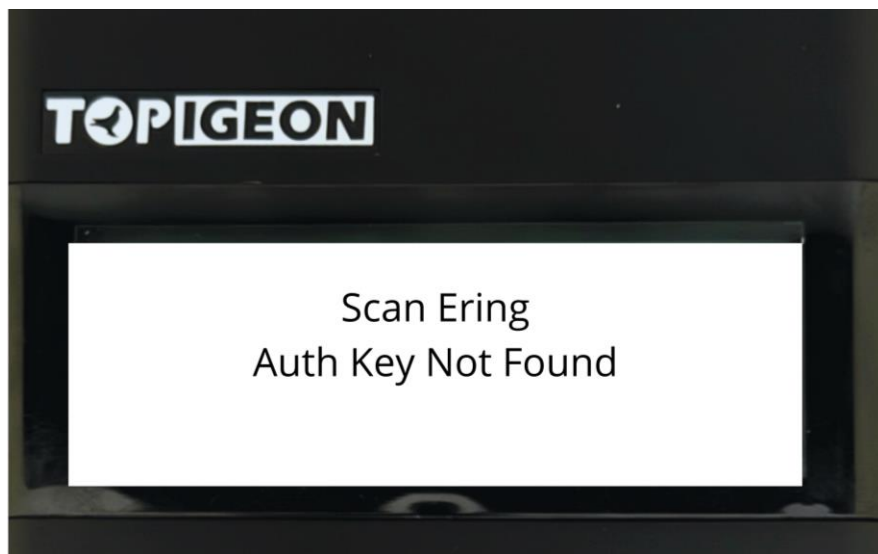
*Year 2024 *Country *Club

Club No.	Race No.	Liber Code.	Liber Date	Device No.	Loft No.	Loft Name	Actions
CORP	211020	21	2023/10/21		001691		PDF Generation
CORP	211020	21	2023/10/21		014428		PDF Generation
CORP	211020	21	2023/10/21	CD7ACE2E	001510	TOPIGEONUSA	PDF Generation

ATTENTION! When you are in Race Admin and need to interact between Clock and Club Master, may happen below situation

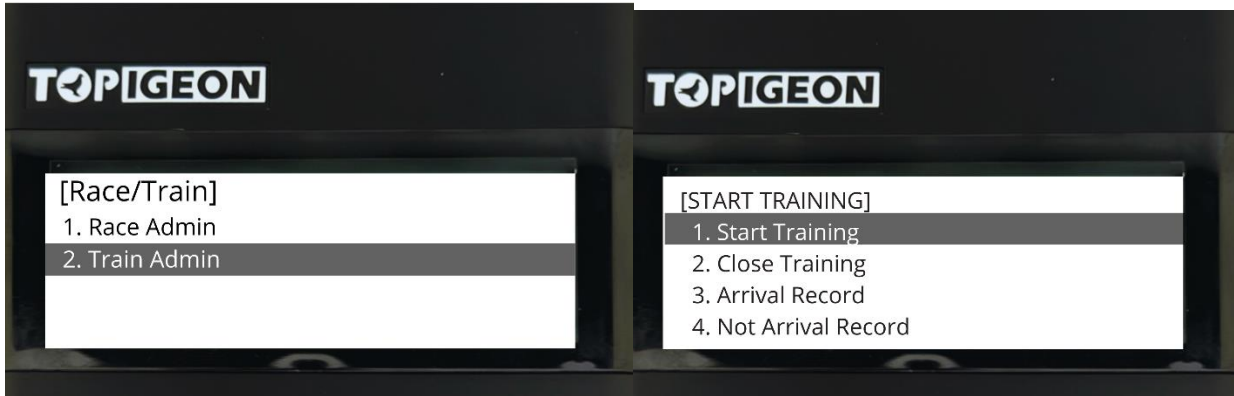


Check if Clock is well connected to Club Master by Din cable.



Check Club Master get GPS signal (SOLID Blue flash light) and if FOB key is reading.

Train Menu



1. Start Training: Start training session
2. Close Training: Before start a new training, close a previous training
3. Arrival Record: Verify arrivals birds from training



4. Not Arrival Record: Verify missing birds from training

