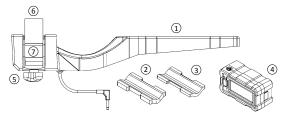


Sporter Ballistic Chronograph

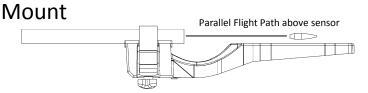
For barrel diameters: 0.5" – 1.0" Muzzle brakes up to 2.7" in length

Parts List



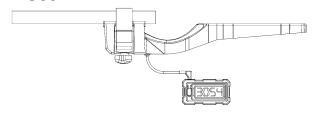
1	Bayonet sensor (Bayo)
2	Thick Rubber Spacer
3	Thin Rubber Spacer
4	Display Unit
5	Thumb Nut
6	1" Cordura Strap
7	Cam Buckle

Quick Start Guide



- •With thumb nut loosened to end of threads, slip strap over barrel and pull strap tight through cam buckle then tighten thumb nut firmly
- •Double check that spacing is good and bullet will travel in a parallel path above the sensor (tapered barrels will introduce a slight angle which is OK)

Connect



- •Plug in cable to display, this will turn the display unit on
- Display will go through startup sequence and when - - is displayed, unit is ready to record shots

View

- •To view the stored shot data, press and release the button from the home screen to enter the Review Data Menu.
- •"Stat Data" is displayed first, then each item is scrolled three times. Press the button to advance to the next item: average, high, low, SD, ES, then each shot individually.
- •To clear the stored shot data, go into the Review Data Menu, advance to "AVG", then hold down the button till you see "DONE".
- •To clear an individual shot, advance to the shot you would like to delete, then hold the button till you see "DONE".

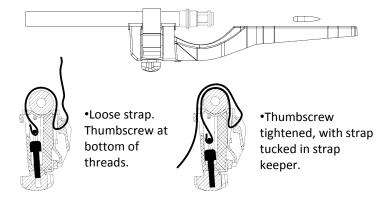
Note: Read full instructions before operating

Strapping the Bayonet (Bayo)

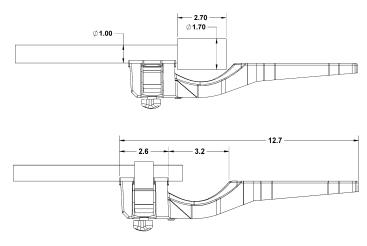
- Seat muzzle end of barrel in V-block groove under strap. Use thicker rubber pad for thin-walled barrels
- Make sure sensor deck is down-range from muzzle.
 Make sure muzzle is 0.25-2.0 inches down-range from from from the sure muzzle is 0.25-2.0 inches down-range from from the sure muzzle is 0.25-2.0 inches down-range from from the sure muzzle is 0.25-2.0 inches down-range from from the sure muzzle.
- •Make sure muzzle is 0.25-2.0 inches down-range from front of V-block (overhanging into blast zone).
- •Make sure Thumb Nut is "unscrewed" almost all the way but still attached to end of Strap Screw.
- •Pull cinch strap up through strap adjuster until ALL slack is taken up around barrel. (make sure buckle rung is hooked onto bayo ledge).
 •Tighten Thumb Nut against V-block until tight.
- •Test grip of strap by tugging on the bayo; if unmovable then proceed. If not, continue tightening Thumb Screw.
- •Remove bolt from gun (if possible) and look down the barrel towards the muzzle; make sure the bayo sensor deck cannot be seen through barrel to ensure bullet will not encounter bayo. MAK

seen through barrel to ensure bullet will not encounter bayo. MAKE SURE BAYO SENSOR DECK IS NOT IN THE PATH OF THE BULLET!

- •Plug data cord into display unit jack. Continue to check muzzle location with reference to the V-block. If bayo is creeping off, retighten strap with muzzle in proper position.
- ${}^{\bullet}\text{To remove, simply unscrew Thumb Nut to let off tension, pull back strap adjuster, slide off muzzle.}$
- •Note: Loose strap end can be placed in strap collector slot in V-block during storage/use.



Dimensions



Disclaimer: The bayo is designed to fit tapered and bull barrel muzzles between 0.50 and 1.00 inches in diameter. It is the responsibility of the user to make sure that the bayo is mounted correctly with the sensor deck away from the bullet path.

Display Operation

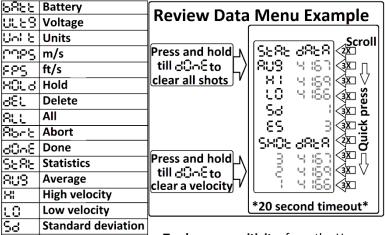
- •To turn display on, plug cable into the jack on top of the display. The display will show "8888", then cycle through a startup sequence that displays the following, and the current settings
 - •Firmware version
 - Battery voltage (ex. 8.8)
 - •Sensitivity (Regular, High 1, or High 2)
 - Units (ft/s, or m/s)

The display unit will then arrive at the Home Screen



Home Screen with zero & 12 shots Ready to record new shots

•To view stored data, from the Home Screen press and release the button. This puts you in the Review Data Menu. This menu allows you to view the stored data, delete individual shots, and clear all the stored data. The Review Data Menu consists of two main parts "Stat Data" (the statistics) and "Shot Data" (the individual shots). Short button presses skip past the current item. If you don't press the button for 20 seconds, the display unit goes back to the home screen. Press and hold on "AVG" till "done" appears to clear all shots. Press and hold till "done appears on an individual shot to clear it. If you let off the button too soon, the device will assume you decided not to delete and abort ("Abrt") the operation.



•To change sensitivity, from the Home Screen hold down the button until "Conf" flashes. Release the button. The current sensitivity setting will be displayed. Hold down the button again, until "done" is displayed. The sensitivity settings will change in the order of Reg, HI 1, then HI 2.



After a change of sensitivity the display will flash the new setting. At any point if the button is not pressed for 20 seconds, the display will return to the home screen.

•To change units of measure, hold down the button while plugging unit in. After "Conf" flashes, release button. Current units will be displayed. Hold down button until "done" is displayed to cycle between FPS and MPS. Display will return to home screen after 20 seconds.

All	
Abort	
Done	۱.
Statistics	
Average	
High velocity	ا
Low velocity	L
Standard deviation	
Extreme spread	
Data	
Shot	
No	
Configuration	
Sensitivity	
Plug	
Unplugged	
Regular sensitivity	
High 1 sensitivity	
High 2 sensitivity	
Error	
Sensor 1	
Sensor 2	
Good	
Change	
Phone	
Plug	
Setting sensitivity	
Clear	
Sync	
Rubber	
	Abort Done Statistics Average High velocity Low velocity Standard deviation Extreme spread Data Shot No Configuration Sensitivity Plug Unplugged Regular sensitivity High 1 sensitivity High 2 sensitivity Error Sensor 1 Sensor 2 Good Change Phone Plug Setting sensitivity Clear Sync

|ხმიძ|Band

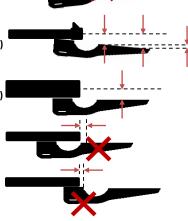
Troubleshooting Check Sensor Spacing



Use a cleaning rod to check the spacing of sensor 1 and sensor 2 from bottom bullet edge. Distances should be between 1/8" and 0.375" and they should be within 1/16" of each other.

Common Issues

- Lean in
- Bayo damage
- Reduced velocity accuracy
- Lean out
- Sensor 2 not detected (Err 1)
- ➤ Reduced velocity accuracy
- Thick muzzle/barrel
- > Low signal (may not pick up)
- Reduced velocity accuracy
- Muzzle too close to Sensor 1
- Signal gets noisy
- Reduced velocity accuracy
- V-block overlaps muzzle
- ➤ Bayo/strapping damage



Error Codes

- とーー : Sensor 2 not detected (often caused by bayo lean out)
- Errē Adjust sensitivity and ensure proper spacing
- **とっこ∃** Velocity out of range, high
- E--- Velocity out of range, low
- E--- Decrease sensitivity or reduce spacing

Error codes may not always be solved by the suggested actions, if you need further assistance please contact customer support.

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Designed and Assembled in the USA Patent Pending ()