

**International Sports Timing**  
**PRODUCT SPECIFICATIONS**  
**SWIMSTART Electronic Start System**

**Introduction**

The International Sports Timing SWIMSTART Electronic Start System is a compact, rugged tone and strobe start with an internal rechargeable battery. All components are solid state for outstanding durability. Like all products from IST, SWIMSTART Electronic Start Systems are covered by a five year warranty (battery warranty is two years).

**I. SWIMSTART Electronic Start System**

**A. Physical**

1. Overall size is 12.5" in height by 8" in width by 4" deep, not including speaker.
2. Total weight is 22 pounds with battery.
3. Case consists of an aluminum extrusion coated with a matte black anodized finish. End caps flare at bottom to form no-tip feet. Top mounted handle provides easy portability.
4. Two latching straps on back of case allow unit to be attached to backstroke flag pole.
5. Lens over 360 degree strobe is a transparent dome of shatterproof plastic.

**B. Electrical**

1. Unit includes a 110V to 24VAC wall transformer that should only be connected to GFI (Ground Fault Interrupt) 110V 15 amp (min.) outlet.
2. Load requirement: .2 amps.
3. Includes an internal, rechargeable 12V battery with an over/under charge protection circuit (warranty on battery is two years). Estimated use per charge: 12 hours.
4. Output to timing system can be either normally-open (for IST, Colorado or Daktronics timing systems) or normally-closed (for Omega timing systems). Cable to timing system is purchased separately.

**C. Environmental**

1. The operating temperature range is 0 to +55 degrees Celsius.
2. The storage temperature range is -55 to +85 degrees Celsius.
3. The operating humidity is  $\leq 90\%$  non-condensing.

**D. Operating Features**

1. Microphone includes talk and start/recall switches, 15' coiled cord and hanging clip. Unit can be used as portable public address system.
2. Speaker is 40 watt, 120 decibel and mounted on case. Case has auxiliary jack for connecting additional speaker(s).
3. Strobe is 6,000 volt xenon, covered by a dome lens for 360 degree disbursement.
4. Volume control allows volume to be adjusted to meet conditions, or turned off for training with strobe only.
5. Can be used stand-alone or connected to IST's SWIMWARE Timing System or other popular timing consoles.