

SEIKO HIGH JUMP M DECA. Lei Sheng Lance TAN SIN 1 0 1 CO

Electronic Measurement & Display Equipment



Electronic Measurement & Display Equipment





Seiko W073 Stopwatch - (S235891)

- Measurable up to 100 hours in 1/100 seconds for the first hour and in seconds thereafter
- Split/ lap time measurement
- Store amd recall of up to 10 split/ lap times
- Memory recall during operation
- Two separate displays for split and lap time measurement
- Time and full automatic calendar
- Water resistant

Recommended for: Track events, Road races, Swimming and Motor sports

Seiko S056 Stopwatch - (S23601P)

- Measurable up to 100 hours in 1/100 seconds for the first hour and in seconds thereafter
- Split/ lap time measurement
- Store amd recall of up to 10 split/ lap times
- Memory recall during operation
- Two separate displays for split and lap time measurement
- Time and full automatic calendar
- Water resistant

Recommended for: Track events, Road races, Swimming and Motor sports





Seiko S057 Stopwatch 100 Lap Memory - Two channel countdown timer _ - Each channel can be preset for up to 100 hours - Measurable up to 100 hours in 1/100 of a second Split/ lap time measurement Store and recall of up to 100 split/ lap times -Memory recall and countdown timer can be used during stopwatch operation

- Two separate displays for split and lap time requirements
- On/ off confirmation sound
- Dot-matrix mode display
- Time and full automatic calendar
- _ Battery life indicator
- Automatic shut-off function
- Water resistant

Seiko S141 - 300 Lap Memory

- Measurable up to 10 hours in 1/100 of a second
- Split/ lap time measurement
- Store and recall of up to 300 split/ lap times
- Memory segregated by event
- Multiple event memory
- Memory recall during operation
- Memory overflow warning
- Measures strokes per minute for events such as swimming and rowing
- Large-sized three row display panel
- Time and automatic calendar
- -Battery life indicator
- 10-bar water resistant

*Subject to technical alterations

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Seiko S143 Stopwatch (S23569J)

The SEIKO Cal.S143 stopwatch is a digital stopwatch featuring a print-out function when connected to a SP12 printer. The stopwatch is also equipped with a large-sizes three-row display panel that can display the split time, lap time and total elapsed time or lap time in progress at the same time in separate rows, and a memory function that stroes the measurements. In addition the stopwatch is a water resistant and can withstand up to 3 bar. Therefore, it is suitable for aquatic sports or use in rainy weather.

- 300 split/ lap memory with Printer Port
- Measurable up to 10 houes in 1/100 of a second
- Split/ lap time measurement
- Store and recall of up to 300 split/ lap times
- Memory segregated by block
- ID No.function useful for storing the data of individual users'Memory recall during operation
- Connectable with printer SFD001J [Cal.No.SP12]
 Large-sized three row display panel for split, lap
- and total time
- Time and automatic calendar
- Battery life indicator
- Water resistant
- The fastest lap time recall function

Recommended for:

Track events, Road races, Ski, Skate, Motor sports and Swimming



SEIKO SP12 Printer

- Prints 13 digits per line
- Printing speed of 1.5 lines per second
- Large clear print
- Connectable with S143 & S123 stopwatches to be used as a system
- Printout selection of split only or lap times
- Optional paper holder to install larger amount of paper
- Automatic printout of year, month, date and time



SEIKO S149 - 300 Lap Printer Stopwatch (S23571J)

- Measurable up to 10 hours in 1/100 of a second
- Split/ lap time measurement
- Store and recall of up to 300 split/ lap times memory segregated by block
- ID No.function useful for storing the data of individual users
- Memory recall during operation
- Large-sized three row display panel for split, lap and total time
- Time and automatic calendar
- Battery life indicator
- Prints 13 digits per line
- Printing speed of 1.5 lines per second
- Large and clear print
- Printout selection of split only or with lap times
- Optional paper holder S23549J to install larger amount of paper S951
- Automatic printout of year, month, date and time
- The fastest lap time recall function
- Compatible with SEIKO Gripswitch Model S23547J
- Compatible with SEIKO paper Holder Model S23549

Recommended for:

Track events, Road races, Swimming, Ski, Skate and Motor sports



Seiko Large Paper Holder (S23549JA)

Hold larger rolls of thermal paper (Seiko S951) and can be used with Seiko S149 and SP12 printer.







Electronic Starter PS-110

System Component

Start Pistol (PS-78): 1 unit Headset Microphone (PS-61): 1 unit Speaker Box (PS-56): 1 unit Cable with a termination box (PS-81): 1 unit

FEATURES

PS-110 is an electronic audio-visual start signal generator that can b used for various types of sports events. It generates a start signal with both sound and flashlight.

It does not use gunpowder, and is safe forhandling and storage. Problems involved in the use of gunpowder pistol such as misfire and powder smoke have been eliminated.

A synthesized firing signal or an electronic beep can be generated, as required.

The headset Microphone can be used to amplify and communicate the starter's voice to the atheletes.

PS-110 can be used alone, with other units of PS-110, or in combination with other devices, to suit your needs.

Start Pistol (PS-78)

Strobe		Xenon lamp	
Power supply		LR06 "AA" alkaline dry cell x 2pcs (DC 3V)	
Battery life (alkaline battery)		Approx 1,2000 times (number of times light can be emitted continuously in 1 minute)	
Temperature	For Use	-10	50 (non condensing)
	For storage	-15	60 (non condensing)
Apperance	Dimensions	W210 x H40 x D145mm	
	Material	Aluminium, black gray	
Weight		Approx	. 410g (excluding dry cells, cord)

Headset Microphone (PS-61)

Output		Impedance, 1.6kΩ, ±30%	
Sensitivity		-68dB, ±3dB	
Туре		Condenser microphone	
Appearance	Dimensions	W160 x H68 x D170mm	
	Material	ABS resin, black	
Weight		Approx.45g (including cord)	

Speaker Box (PS-56)

		/	
Audio input		-20dB (100kΩ)	
Rated output		6W (max.1	0W)
Power supply		LR06 "AA"	alkaline dry cell x 8pcs [DC 12V]
Battery life (alkaline dry cells)		Pistol sound:Approx 8,000 operations until sound pressure falls below 91dB	
Operating sound pressure level		93dB (at a	distance of 10m)
Temperature	For use	-5	40 (non condensing)
	For storage	-15	50 (non condensing)
Appearance	Dimensions	W102 x H258 x D216mm	
	Material	ABS resin, ivory	
Weight		Approx. 1.	6kg (exluding dry cells)

*Subject to technical alterations

Electronic Measurement & Display Equipment





Sports Printer CT-2000

System Components

Start Printer (CT-2000): 1 unit AC Adapter with 5m cable: 1 unit Grip switch with 2.5m cable (GS-51): 2 units Roll Paper (RP-03): 1 roll Ribbon Casette (ERC-22): 1 unit

FEATURES

Being equipped with various measurement modes, CT-2000 can be used for timing all types of sports events.

Timing down to 1/1000 of a second is possible.

The method of calculating the fraction of a second can be selected from 10 types including rounding up, rounding down and rounding off, thus making it possible to comply with various timing rules adopted in different sports events.

A large-sized LCD monitor is used to mae it easier to check various types of information displayed on it. (20 characters x 4 lines)

The design of the grip switch is renewed so that it better fits into your palm and provides easier switch operation.

By using resin case, high durability has been achieved.

If the battery are installed when CT-2000 is powered by AC adapter, the source can be quickly switched over to the batteries in case of failure of AC power supply, to ensure constant operation. *

Two sets of dry batteries (6 AA size cells per set) can be installed in the main body, and the power source is switched over automatically between them. By replacing the unused set of dry batteries with new ones, CT-2000 can be powered by the dry batteries continuously for a long time. *

Rechargeable batteries can be used in place of alkaline dry batteries. *

CT-2000 can also be powered by external battery.

* Dry batteries, rechargeable batteries and external battery are not included with CT-2000 and they should be purchased separately if required.

*Subject to technical alterations

Main Functions

The Auto Measurement Mode enables the measurement during individual practices performed alone.

Reaction time (start reaction time: time after the start signal untul swimmer's feet have left the starting block),

Lap time, and split time can be measured during swimming practices Lap time and split time can be measured during practices of speed skating, track, and other races. By outputting a signal to an external buzzer device, CT-2000 can control the device to generate a starting sound automatically.

Even if the actual start time has differed from the scheduled time, the Time Correction Mode (inputting time difference from start time) corrects the scheduled start time set in advance in the secondary CT-2000 units, enabling them to synchronize with the master CT-2000 unit.

The Speed Measurement Mode measures the average speed over a given section of the entire distance.

By connecting a Bib No. input device with CT-2000, the measured times can be printed out together with the Bib.No.

CT-2000 can be connected with a personal computer via USB interface. Two types of time signals (RS-422) are output to the scoreboard (with or without running time data)

A synchronization signal can be output to external devices.

As CT-2000 is compatible with CT-1000, the grip switches, extension unit, synchronization cables, and cables to connect with scoreboard used previously with CT-1000 can also be used.









Options for CT-2000



Expansion unit EX-916

An input channel can be expanded up

Synchronization Cable / SY-456 Roll Paper / RP-03 Ribbon Casette / ERC-22

Grip Switch GS-51 (with 2.5m cable) GS-52 (with 5.5m cable) GS-53 (with 10m cable)



Specifications

Accuracy of crystal oscillator: ±1ppm (at a temperature of 25°C)				
23 hours, 59 minutes, 59 seconds 999. Start time can also be set in hour, minutes and seconds up to the maximum duration.				
	Method of calculation 1/1000 sec.digit is retained	Data & Printout 1/1000 sec. increments		
	1/1000 sec.digit is rounded down	1/100 sec. increments		
10 types of calculation methods are available	1/1000 sec.digit is rounded up	1/100 sec. increments		
	1/1000 sec.digit is rounded off	1/100 sec. increments		
	1/100 sec.digit is rounded down	1/10 sec. increments		
	1/100 sec.digit is rounded up	1/10 sec. increments		
From panel: 3 channels From connectors: 2 channels (up to 10 channels when extension unit is used)				
Up to 3,0000 data contained in up to 100 blocks				
Distance of section: 1-100m in 0.1m increments Measurement unit: km/h, mph and m/s Measurement range: 1-1000km/h, 1-250mph, 1-600m/s Number of input channels: Up to 10 channels when extension unit is used				
	25°C) 23 hours, 59 minutes, 55 be set in hour, minutes a duration. 10 types of calculation methods are available From connectors: 2 char extension unit is used) Up to 3,0000 data conta Distance of section: 1-1 Measurement range: 1-7 Number of input channel	25°C) 23 hours, 59 minutes, 59 seconds 999. Start It be set in hour, minutes and seconds up to the duration. Method of calculation 1/1000 sec.digit is realized 1/1000 sec.digit is rounded down 1/1000 sec.digit is rounded down 1/100 sec.digit is 1/100 sec.digit is 1/100 sec.digit is 1/100 sec.digit is 1/100 sec.digit is 1/100 sec.digit is 1/100 sec.digit is		

Monitor display		Display device: LCD Number of characters: 20 characters x 4 lines	
Printer section		Character height: 9.2mm Printer type: Dot impact printer (5x7 dot matrix, 24 characters/line) Printing speed: 2.5 lines/sec Roll paper: 57.5 ± 0.5mm (width) x 70mm (outer diameter) or a small size, plain paper type	
Power supply		 AC 100V ~ AC 240V (used with AC adapter) Built-in battery (2 sets of 6 AA size dry cells) rechargeable type batteries can also be used External battery (DC 12V) 'Do not use AC power supply at the same time 	
Battery life		Alkaline dry battery: Approximately 8hours (at +25°C) Nickel-metal hydride rechargeable battery: Approximately 14 hours (at +25°C) 'the above battery lives may be shorter if measurement/ printing is performed more than once in 10 seconds)	
Temperature range	During operation	-5°C ~ + 40°C (no-condensing) *0°C ~ +40°C for AC adapter	
	During storage	-15°C ~ 55°C (non-condensing)	
Apperance	Dimension	W440 x H467 x D120mm	
	Material	Resin	
Weight		Approximately 5.5kg (excluding batteries)	

*Subject to technical alterations



