



**Colorado
TIME SYSTEMS®**
Making Time Count

CDS
Colorado Display Systems
High Impact Visual Display Systems

Complete Timing, Training, Scoring and Display Solutions 2009



Table of Contents

Timing & Touchpad System Diagrams	page 2
Start Systems	
Infinity Start System	page 3
Championship Start System	page 4
Timing Systems	
Dolphin	page 5
System 6 Timing Console	page 6
System 5 Timing Console	page 8
Championship Touchpads	page 9
Relay Judging Platforms (RJPs)	page 10
Colorado Block	page 11
Cable Harnesses & Accessories	page 12
Diving, Synchro & Water Polo	page 13
Pace Clocks	page 15
Training Tools	page 16
Numeric Displays	page 17
LED Matrix Displays	page 19
Basic Numeric Scoreboard Controllers	page 22
Portable Scoreboards	page 23
Time of Day/Countdown Clocks	page 25
Baseball Scoreboards	page 26
Basketball Scoreboards	page 29
Football Scoreboards	page 30
Hockey Scoreboards	page 31

A letter from the President:

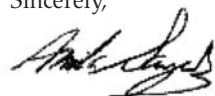
For over 30 years, Colorado Time Systems has been known for excellence and innovation in aquatic timing and scoring products. Our promise is to never get complacent, to maintain leadership by providing leading edge technology, and to listen to your needs.

We began as an aquatic timing company and remain true to our roots in aquatic sports, with specialized systems for swimming, diving, synchronized swimming, and water polo. Our aquatic training products help athletes and coaches make the most of their training time.

Our display division, Colorado Display Systems (CDS) allows us to offer you cutting edge display products for all venues. Our display portfolio includes: full color video displays, animation displays, ribbon/fascia boards, sport-specific scoreboards and portable scoreboards. CDS and CTS can provide scoring, timing, and display solutions for almost every sport.

You can count on the industry leader for your complete training, scoring, timing and display solutions.

Sincerely,



Anita Sayed
President & CEO
Colorado Time Systems
Colorado Display Systems



Trust in the Leader

Commitment

You have a commitment to your fans, your team, and your community. CTS and CDS are committed to you, and ensuring that your facility is the best that it can be for you, your fans, your team, and your community. Our sales consulting staff, project management team, installation crew and customer service group are dedicated professionals who will help you design, install, and maintain your scoring, timing and display systems for maximum impact, return on investment and revenue generation.

Industry Knowledge

Our product engineers and designers have over 30 years combined experience. With a comprehensive network of contacts within the industry, we are kept abreast of advances in technology as they arise. You can rest assured that our technology is the best available on the market today.

Project Management

With the purchase of a timing, scoring and display solution, a comprehensive project management team is assigned to assist you in achieving a seamless installation, and unparalleled support once the project has been completed. A project manager oversees your installation from contract to completion. The project manager is your point of contact through installation, and will interface with you, the Architect, the Construction Company, and members of the project management team which include:

- Sales Management
- Software Engineer
- Mechanical Engineer
- Structural Engineer
- Project Installation Supervisor

Customer Support

- 24 x 7 Customer Service available
- Phone, email support
- On-Site Service
- On-Site Installation
- Training Courses
- Maintenance Videos

Financing

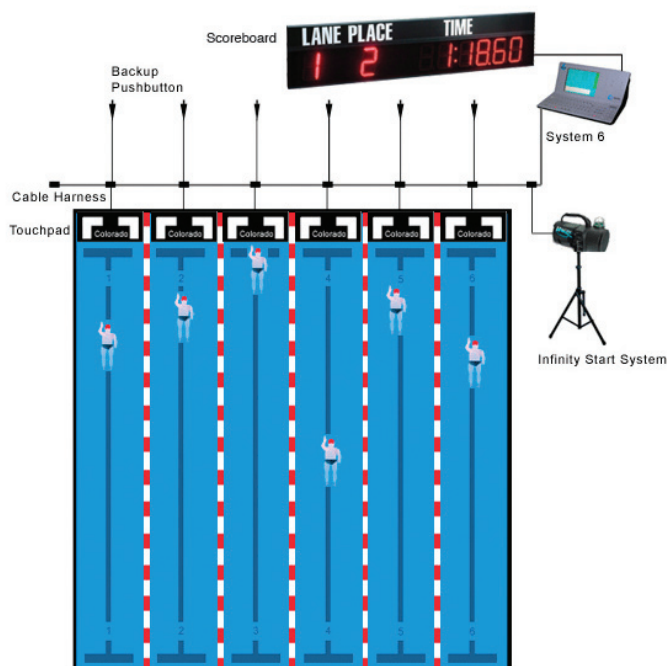
Colorado Time Systems has partnered with Nationwide Business Capital to provide financing to organizations wishing to purchase equipment. Contact your sales consultant for additional information.

"We use CTS equipment throughout the year in our facility, for training and for competition. I rely on CTS to provide me with the best tools to help train my athletes. Throughout my coaching career, Colorado Time Systems has been my timing system of choice."

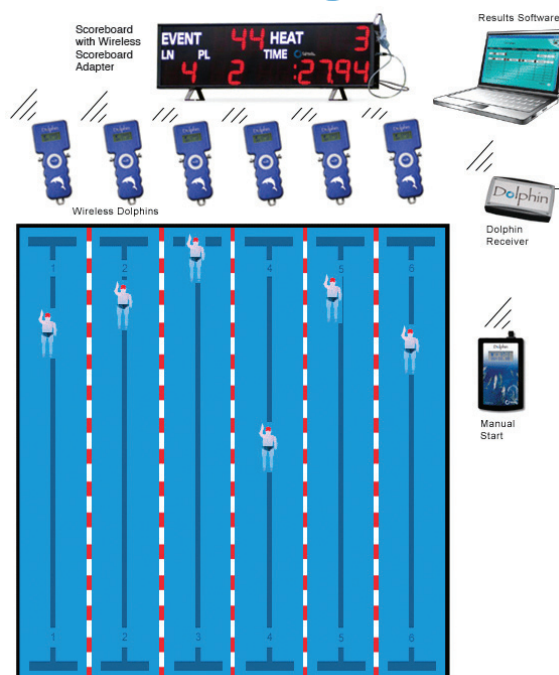
– DAVID MARSH
HEAD ELITE COACH/CEO
UNITED STATES OLYMPIC COMMITTEE CENTER OF EXCELLENCE
FORMER AUBURN HEAD COACH, 2007 NCAA DIVISION I SWIMMING COACH OF THE YEAR,
12-TIME NCAA DIVISION I CHAMPIONSHIP WINNER



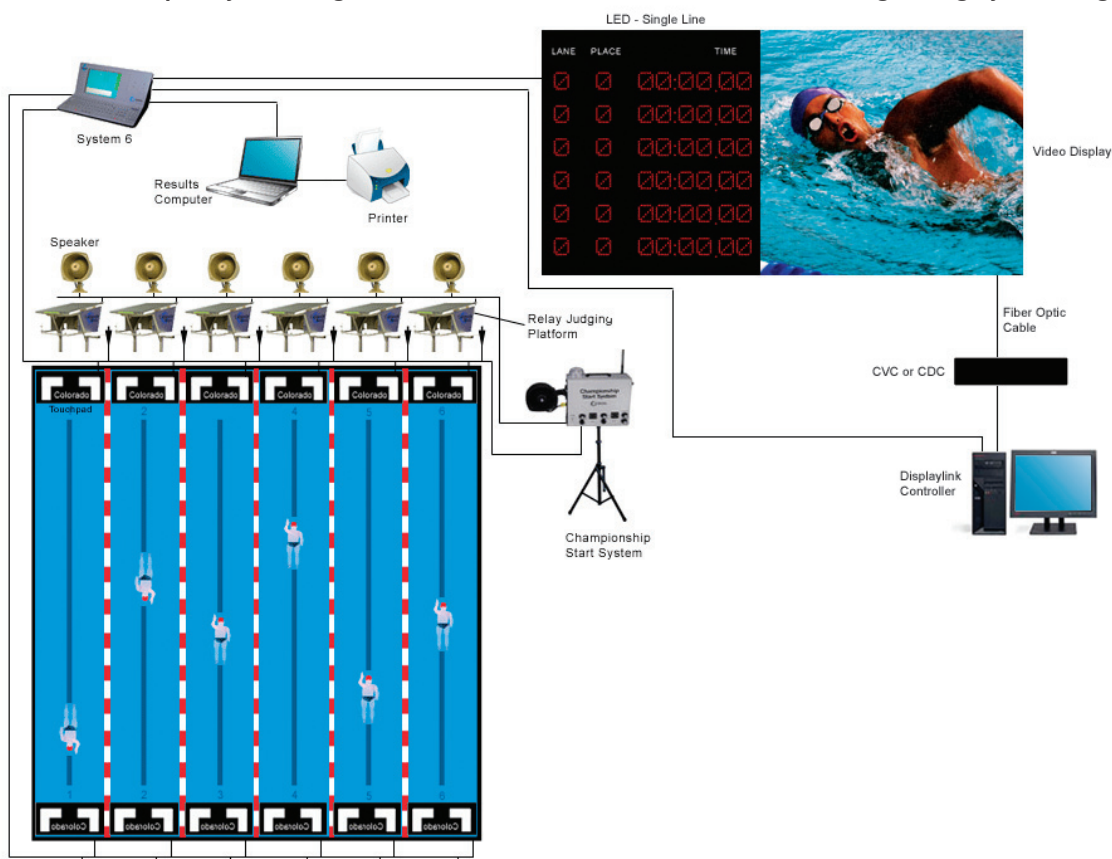
Timing & Touchpad System Diagrams



Basic Touchpad System Diagram



Basic Swimming-Timing System Diagram



Championship Timing System Diagram

Start Systems

Start your meets with confidence with a start system from Colorado Time Systems. Choose from the Infinity Start System or the Championship Start System. Both are excellent start system choices, and both have limited PA functions as well.

Infinity Start System & Accessories

Infinity Start System makes an excellent entry-level start system, and its lower cost makes it a great choice for smaller pools and recreation centers. It is an easy-to-use portable start system and limited public address system.

- **Microphones**

The Infinity Start System includes a wired microphone.

- **Built-in 360° strobe**

Flashes with start signal. This gives timers and officials a reliable start reference, and provides a visual cue to hearing-impaired athletes. Additional strobe lights may be added.

- **Battery power**

The Infinity runs on an internal, rechargeable, gel-cell battery. The Infinity will not operate while charging. An optional secondary gel-cell battery and charger are available.

- **Limited public address system**

The Infinity Start System can serve as a limited public address system, allowing you to make announcements during practice and competitions.

Height: 8.9 inches (22.6 cm)

Length: 15 inches (38.1 cm)

Width: 6.9 inches (17.5 cm)

Weight: 12 pounds (5.4 kg)



Infinity Start System Accessories

part #	description
INF-SSM	Infinity Start System, 110/120V
INF-SSMF	Infinity Start System, 220/240V
INF-LSLxx	Cable, Timer to Wallplate (available in lengths of 10-, 25- or 50-feet)
TR-3	Tripod for Infinity or Championship Start System
INF-SPxxx	Infinity External 40-watt speaker (available in lengths of 125- or 200-feet)
INF-SJxxx	Infinity Series Start Jumper Cable (available in lengths of 25-, 50-, 75-, or 200-feet)
M-25	Microphone with 25-foot cable
EXTSTROBE	Infinity Series External Strobe
SMK-1	Kit to mount speaker on backstroke pole
BP-3	Spare battery and external charger

Championship Start System & Accessories

The Championship Start System delivers rugged durability and long lasting performance. This high-powered, easy to set up system is an excellent choice for larger aquatic facilities.

The Championship Start System allows you to design a customized solution for your pool, with options in these areas:



• Microphones

- Three separate microphone inputs: two wired and an optional wireless microphone
- Independent volume control for each microphone input; microphone volume is independent of start tone volume

• Speedlights

LEDs across the front of a Colorado Time Systems' Relay Judging Platform that flash simultaneously with the Championship Start speaker tone and strobe light. The Championship Start can drive Speedlights on RJPs in up to 12 lanes. Speedlights level the playing field for hearing-impaired athletes. They offer all athletes a visual cue, and experience practicing with the type of start system used at championship competitions.

• External 360° strobe

Flashes with start signal. This gives timers and officials a reliable start reference, and provides a visual cue to hearing-impaired athletes.



• Battery or 110/240 volt power

Has the flexibility to be used in a fixed location with 110-volt power, or as a portable system with battery power. Batteries are internal, rechargeable, gel-cell batteries, which will recharge automatically when the unit is plugged into a wall outlet with the included power brick. LED Low Battery Indicator provides an early indication that the battery level is getting low. Championship Start will operate while charging.

• Limited public address system

The Championship Start System can serve as a limited public address system, allowing you to make announcements during practice and competitions.

Height: 13.25 inches (33.7 cm)

Width: 13 inches (33 cm)

Depth: 5.75 inches (14.6 cm)

Weight: 17.4 pounds (7.9 kg)

• Underwater speaker

Add an underwater speaker for underwater recall of false starts, and as an exceptional training tool.

Championship Start System Accessories

part #	description
SS	Championship Start System w/wired microphone
WSS	Championship Start System w/wireless microphone, 110/120V
WSSF	Championship Start System w/wireless microphone, 220/240V
M-25	Microphone with 25-foot cable
TXR	Championship wireless microphone
CMP-WPxx	Cable, Timer to wallplate (available in 25- and 50-feet)
SP-UND	Underwater speaker for Championship Start System
SP-xxx	External 40-watt speaker (available with 125- or 200-foot cable length)
SP-6/45	Championship Series lane speaker, 6-watt
SMK-1	Kit to mount speaker backstroke pole
CMP-ES	External Strobe
TR-3	Tripod and mounting bracket
CMP-ES-4	4 adapter for 2 external strobes

Timing Systems

Dolphin

Wireless Stopwatch Timing System

Dolphin is a proven wireless timing system with a fully integrated Hy-Tek Meet Management interface. Dolphin provides wireless, synchronized, stopwatch-style timing for swimming competitions. It significantly reduces the amount of effort required to run a meet and manage data. By synchronizing all the stopwatches to the same start signal, the system has improved accuracy compared to manual stopwatches.

The Dolphin system includes

- Handheld wireless stopwatches for each lane (the system supports up to 3 lane timers per lane and up to 10 lanes plus one spare)
- Starter unit
- Base unit, which connects via USB cable to your laptop running Hy-Tek Meet Manager with the Dolphin module



Hy-Tek Interface

Colorado Time Systems and Hy-Tek Sports Software have partnered to provide you with a fully integrated Hy-Tek user interface, so you will not need to learn a new meet management program.

Three modes of operation:

Electronic start system

Connect the starter unit to any CTS electronic start system. All watches will start timing with the start system signal. Each watch stops when the lane timer stops it. These times are wirelessly transmitted and saved for immediate access by Meet Manager. The starter unit is used to reset the system before the next race.

Synchronized Start/Manual Stop

The official with the starter unit presses the START/STOP key. All watches will start timing from this signal. Each watch stops when the lane timer stops it. These times are wirelessly transmitted and saved for immediate access by Meet Manager. The starter unit is used to reset the backup timing system before the next race.

Wireless Manual Start/Stop

This mode is used for collecting backup times at major events, and is compliant with all swimming ruling bodies' (FINA, NCAA, USS, NFHS, YMCA) requirements for backup timing. Lane timers start and stop the watches independently for a fully manual system. These times are wirelessly transmitted and saved

for immediate access by Meet Manager if needed. The starter unit is used to reset the backup timing system before the next race.

Dolphin Scoreboard Adapter

The Dolphin Scoreboard Adapter allows your CTS LED numeric scoreboard to wirelessly receive results from the Dolphin system and display race data.



Who can use it?

Everyone. Whether you use Dolphin in competition or practice, Dolphin is an accurate, wireless, effortless timing solution. Dolphin will save you time and improve your accuracy. All by simply connecting to your laptop.

Requirements

Hy-Tek Meet Manager
Laptop

Specifications:

Wireless: 16 channels, spread spectrum, 2.4 GHz

Battery: single standard 9v provides 40+ hours of operation

Physical dimensions of wireless watch:

Size (LxWxD): 2.75" x 4.5" x 1" (7cm x 11.4cm x 2.5cm)

Weight: 5.8 oz. (165 grams)

RoHS compliant

CE compliant

Dolphin is approved by USA Swimming, Swimming Australia, and Swimming NSW.

Dolphin Stopwatch Configurations

part #	description
WTS-D1061	6-lane w/1 watch per lane + 1 spare
WTS-D1062	6-lane w/2 watches per lane + 1 spare
WTS-D1063	6-lane w/3 watches per lane + 1 spare
WTS-D1081	8-lane w/1 watch per lane + 1 spare
WTS-D1082	8-lane w/2 watches per lane + 1 spare
WTS-D1083	8-lane w/3 watches per lane + 1 spare
WTS-D1101	10-lane w/1 watch per lane + 1 spare
WTS-D1102	10-lane w/2 watches per lane + 1 spare
WTS-D1103	10-lane w/3 watches per lane + 1 spare
R-045-011	Carrying case (holds up to 27 devices)
R-1004-0506	Spare watch

Start System Adaptor Kits

(includes cable and holster for start unit)

part #	description
K-DSS-1	Dolphin to Infinity
K-DSS-2	Dolphin to Championship Start System

System 6 Timing Console

For the past 30 years, Colorado Time Systems has led the aquatics industry with innovative, reliable products for scoring and timing. CTS is synonymous with precision and accuracy in swim timing.

The *System 6* is your central timing system, which coordinates incoming information from the start system, touchpads, relay judging platforms, backup buttons, and remote judging terminals for diving and synchronized swimming. It sends information to scoreboards, meet management software, a printer, water polo horns and shot clocks.

Committed to excellence, CTS continues to research and develop new and enhanced product features. The *System 6* has been designed to meet and exceed current needs, and to easily allow for upgrades and enhancements in the future, extending the life of your investment.

Serving more than 80% of the U.S. aquatics market, Colorado Time Systems is a leader you can rely on.

Enhanced split handling

Race split times are printed as they occur. Lap and cumulative splits are stored, and can be posted to matrix display scoreboards* during a race. The *System 6* supports unlimited splits, both near- and far-end.

(*Including monochrome, tri-color and full color boards)

Expanded lane capability

CTS's *System 6* is the only system on the market that can support up to 12 lanes. The *System 6* is engineered for flexibility in lane shifting and lane reversal. This allows you, for example, to shift your race course to the center lanes of your pool yet keep the lane numbering standard.

System 5/System 6

CTS gives you the choice between two great sports timing solutions with the *System 5* and new *System 6*. Choose the option that's best for your facility:

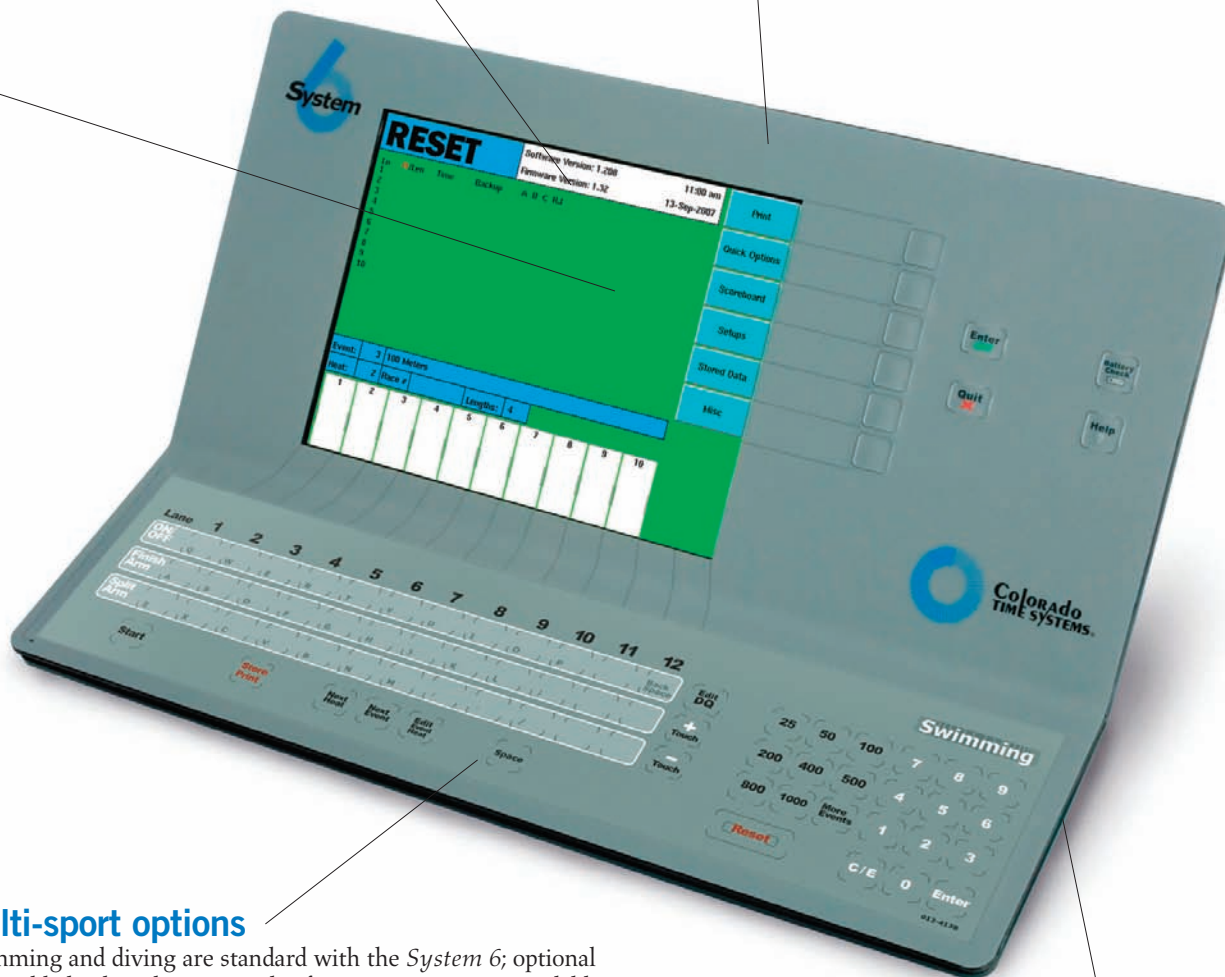
Feature	System 5	System 6
Screen	Monochrome 41 sq. in.	Color 53 sq. in.
Number of lanes	Up to 10	Up to 12
Lane shifting	No	Yes
Ability to store & post splits	Yes	Yes
Supports unlimited splits	No	Yes
Floppy disk drive	No	Yes
Aquatic sports: Swimming Diving Water Polo Synchronized Swimming Training Pace Clock	Yes Yes Optional Optional Optional	Yes Yes Optional Optional Optional
Pre-programmed event sequencing with customizing capabilities	Yes	Yes
Meet management interface port for PC download	Yes	Yes
A/C power with battery backup	Yes	Yes
Rechargeable battery	No	Yes
Hy-Tek Meet Management compatibility	Yes	Yes
Wireless adapter available	Yes	Yes
Internet upgrade	No	Yes
USB keyboard and mouse functionality	No	Yes

Large, full-color screen

The *System 6* has the largest screen on the market - 8.4" x 6.3" (10.5" diagonally). The larger, backlit, **color** screen makes it easy for the operator to read the information displayed and run the event efficiently.

Internet upgrade capability

For unlimited race information storage and easy system upgrades.



Multi-sport options

Swimming and diving are standard with the *System 6*; optional changeable keyboard inserts and software programs are available for water polo, synchronized swimming and training pace clock.

3.5" floppy drive

For unlimited race information storage and easy system upgrades.



Sky-Fi Wireless Adapter

Transmit scoreboard data wirelessly with this advanced, high performance adapter. Eliminate scoreboard data cables. Transmits data from your CTS timing console to: Digital pace Clocks, Digital shot Clocks, Single & Multi-Line LED Scoreboards and Matrix boards. It's easy to connect, compatible with older CTS timing consoles, and ideal for Water Polo.

System 5 Timing Console



Our fifth generation timer, the System 5, offers large memory capacity, a full matrix display and an extensive array of options.

- Pre-programmed event sequencing with customizing capabilities
- Large on-screen display
- Meet management interface port for PC download
- On-screen warning messages to assist operator
- Automatically flags 3/10th second discrepancy
- Additional sport programs available
- Memory capacity to over 500 races
- System self-diagnostics
- Automatic and semi-automatic relay judging option

External Printer Capability

SYSTEM 5 interfaces to any full-size IBM compatible printer for clear, easy to read customized print-outs. Print race results, splits or an entire condensed meet summary at any time during or after the event. Provide your own printer or select a printer through Colorado Time Systems.

Adjustable Full Matrix LCD Display

The SYSTEM 5 screen is a full-size LCD display providing complete race information including our “mini scoreboard” feature. A contrast control assures clear, crisp images in any environment.

Additional on-screen windows allow selections for events, equipment options, and self-diagnostics for the timer, touch-

pads, cables, scoreboard and buttons. The SYSTEM 5 operates up to 40 hours on eight “D” batteries with on-screen gauge to monitor power reserve. A 115V wall transformer is included as an alternate power source.

Multi-Sport Options

Swimming and manual diving programs are standard. The SYSTEM 5 offers optional changeable keyboard inserts and software programs for additional sports including water polo, synchronized swimming, pace clock and additional hardware for automatic entry of diving and synchronized swimming scores.

SYSTEM 5 Specifications

General SYSTEM 5 consists of a multi-sport computer console, swim and diving keyboard inserts and built-in clock calendar. Timing and placing capability for up to ten individual lanes. Includes data transfer to IBM or compatible computers.

Power Primary power source includes eight (8) internal D-cell alkaline batteries for safety. Alternate power is 115VAC via wall transformer. Optional: 220V transfer.

Timing and Placing Select timing resolution of 0.001 or 0.01 second with a timing range of 99:59.999.

Front Panel Display Selectable lane or place finish. Race and Lane status, Pad status, Lane Arming status, and HELP text are displayed on the 25 x 80 line character LCD display to allow operator to see the entire race status at a glance. Includes on-screen battery gauge for monitoring battery power.

Splits Race split times are printed as they occur. Far-end splits capability using single computer console.

Championship Touchpads

Get a Grip on every start and turn!

CTS AquaGrip touchpads feature the patented AquaGrip texture over the foundation of a tough plastic backbone. The AquaGrip touchpads combine the best starting and turning surface available with the proven design that all Colorado Time Systems touchpads have used for over thirty years.

They respond to a touch that's remarkably light - but provide a push-off that's thoroughly firm. AquaGrip touchpads have all-plastic construction that is tough and durable, yet their textured, non-skid surface is gentle on swimmers' hands and feet. The solid quarter inch plastic backbone, molded one-piece connectors and non-corrosive finish provide long-lasting reliability.

Dependable, internally sealed switches record even the lightest swimmers' touch on the fully active face of all CTS pads, and along the top edge of gutter-mounted pads. You get an accurate finish every time with no "dead spots."

At Colorado Time Systems, we will help you to select the appropriate touchpad for your facility. Choose from a wide array of widths; and flat wall or gutter mount pads.

Touchpads range from 60 to 96 inches (152 to 244 cm) wide, including 240 cm (94.5 inches) wide for use in F.I.N.A. sanctioned pools. AquaGrip or standard surface available.

Standard Surface and AquaGrip Touchpads

Touchpad Caddy



Your Colorado Time Systems touchpads are precision electronic instruments, and can be protected with a touchpad caddy that provides safe storage and a convenient means to transport touchpads to the pool deck. Each caddy can accommodate up to 10 touchpads.

• Specifications:

Caddy for standard pads:
Dimensions: 82"x47"x22" (208.3 x 119.4 x 55.9 cm)
Weight: 105 lbs. (47.6 kg)

Caddy for FINA or 96" pads:
Dimensions: 102"x60"x22" (259 x 152.4 x 55.9 cm)
Weight: 150 lbs. (68 kg)



Touchpads & Accessories

part #	description
TP60F	60" x 24" Standard Flatwall Touchpad
TP60G	60" x 22" Aquagrip Gutterhung Touchpad
TP60GF	60" x 24" Aquagrip Flatwall Touchpad
TP-78F	78" x 24" Standard Flatwall Touchpad
TP-78G	78" x 22" Aquagrip Gutterhung Touchpad
TP-78GF	78" x 24" Aquagrip Flatwall Touchpad
TP-96	96" x 24" Standard Surface Gutterhung Touchpad
TP-96G	96" x 24" Aquagrip Gutterhung Touchpad
TP-195	195cm x 90cm Standard (FINA) Gutterhung Touchpad
TP-195F	195cm x 90cm Standard (FINA) Flatwall Touchpad
TP-240	240cm x 90cm Standard (FINA) Gutterhung Touchpad
TP-240F	240cm x 90cm Standard (FINA) Flatwall Touchpad
TPM-D	Touchpad Test Meter
VP-2	Vacuum Pump

Relay Judging Platforms (RJPs)

Relay judging

Colorado Time Systems' Relay Judging Platform (RJP) technology is the most accurate way to judge relay exchanges. The RJP automatically compares the incoming swimmer's finish on the touch pad with the departure of the swimmer leaving the starting platform. The RJP will record the necessary information to judge a relay exchange to 1/100th of a second.

The NCAA has declared that automatic relay judging is the fairest and most accurate way to judge relay exchanges. All Division I NCAA Championships must use electronic relay judging. Our RJPs exceed NCAA standards.

Start reaction time

On every start, the RJP senses when the swimmer leaves the block and compares the time to the start impulse from the starting system with 1/100th of a second accuracy.

The RJP features a non-skid surface and is easily mounted to a variety of starting platforms. Mounting is simple; a double strap with a through buckle allows quick and secure set-up with easy removal.

LEDs across the front of RJPs equipped with Speedlights flash simultaneously with the start tone and strobe light.

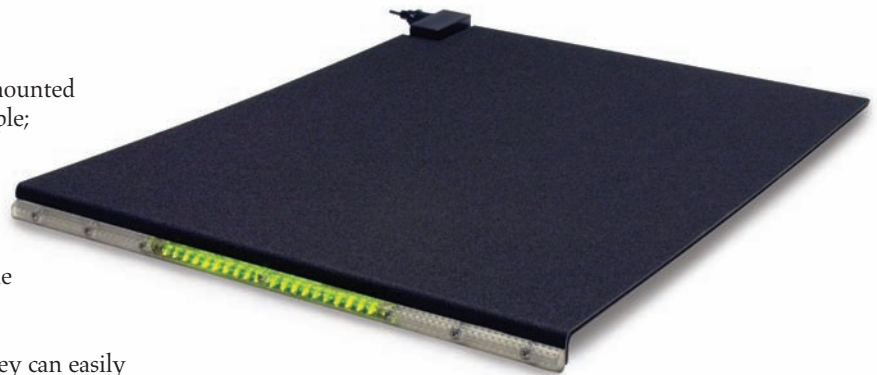
All athletes benefit from the visual signal, which they can easily see without altering their race-ready posture and train for the fastest reaction time humanly possible. Backstrokers will benefit from the visual start signal inches away from their eyes.

In training, coaches and swimmers can use RJPs to provide this vital information to improve start reaction and relay exchange times.

In competition, the start reaction times can be displayed on the scoreboard (through a System 5 or System 6 Timing Console) at the beginning of a race, adding excitement to the event for the audience.

Elegantly engineered

Both the top and the leading edge of the RJP are sensitive to the swimmer's departure. Extensive research and elegant engineering allow the Colorado Time Systems RJP to decipher between weight shifts and when a swimmer actually leaves the platform.



"The committee determined it was important to go with a product that is tested. When we have a national championship meet, we want to be sure our athletes and coaches are comfortable with the environment and the equipment. For the last couple of years, we've used the CTS relay technology, and the coaches have become confident in the RJPs."

— WAYNE BURROW, NCAA DIRECTOR OF CHAMPIONSHIPS

Colorado Block®



The Colorado Block® is the ultimate starting block solution; a combination of Paragon Aquatics' Track Start Competitor starting block and Colorado Time Systems' Lighted Relay Judging Platform (RJP) and under block start speaker.

The Colorado Block® will provide the competitive advantage to facilities for the following reasons:

- *Accuracy in competition.* Facilities with the Colorado Block® can rely on all the benefits of CTS's RJP's.
- *Training advantage.* Teams who train with the Colorado Block® can fine-tune their start reaction times and relay exchanges with quantifiable results, giving them the competitive edge.
- *Cabling is simplified* with the quick connect deck-plate and connection hub system.



RJP Caddy

Your relay judging platforms from Colorado Time Systems are precision electronic instruments that require protection. The relay judging platform caddy provides a convenient way to store and transport your Relay Judging Platforms, Championship Start System, QuickStart Pro and cables. The aluminum frame with wheels accommodates up to ten RJP's (five per side), and is narrow enough to fit through standard commercial doorways.



Cable Harnesses & Accessories

Cable Harnesses are an ideal solution for facilities that do not have in-deck cabling available.

Pushbuttons:

Colorado Time Systems' equipment allows for backup timing between 1- and 3-buttons per lane.

Cable Harnesses & Pushbuttons

part #	description
CH41-6	6-lane touchpad, pushbutton primary harness
CH41-8	8-lane touchpad, pushbutton, primary harness
CH41-10	10-lane touchpad, pushbutton, primary harness
CH41-12	12-lane touchpad, pushbutton, primary harness
CH41-6-3	6-lane pushbutton backup harness
CH41-8-3	8-lane pushbutton backup harness
CH41-10-3	10-lane pushbutton backup harness
PB-6	Backup pushbutton with 6' cable



Extension Cables

part #	description
CHE-41P-50M	Extension for CH41 (primary only)
CHE-41-50M	Extension for CH41 (primary & backup)



Count on Colorado Time Systems for a complete solution for all aquatic sports.

Scoreboards

Scoring and Timing

Additional Products

Diving



- System 6



Remote Judging Terminals



Choose from a variety of scoreboard options.

Colorado Time Systems is the Official Scoring System of USA Diving.



Synchronized Swimming



- System 6



Remote Judging Terminals



Choose from a variety of scoreboard options.

Colorado Time Systems is the Official Scoring and Display Systems supplier of U.S. Synchronized Swimming.



Water Polo

CTS's water polo solution is compatible with PoloBase.

- System 6



Shot Clocks

- 2 or 4 digits
- LED or light-reflective



Choose from a variety of scoreboard options.

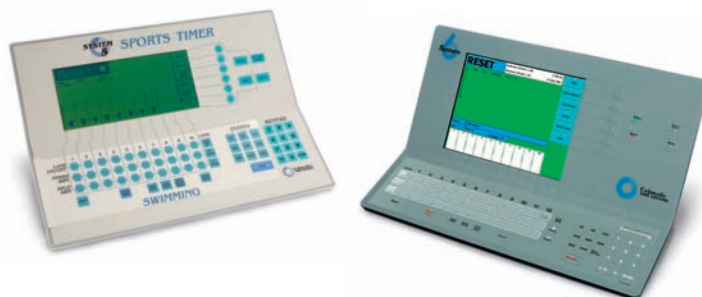
Colorado Time Systems is the Official Scoring and Timing System of USWP and of the USA Water Polo National Training Center.



Water Polo Solutions

Water Polo solutions include:

- scoring and timing based on CTS sports timers
- standalone water polo solutions that do not require a sports timer



System 5 and System 6 Sports Timers

Scoring and Timing Console (Integrated System)

Using CTS' sports timer, the operator can control the shot clocks, game time, three penalty times per team, team scores and manually sound the horn, using our numeric or matrix scoreboards. The operator can also edit the preset times and set the time of day.

Shot Clocks

CTS has a two-module shot clock system displaying shot time 0-99, a programmable preset time and a time edit feature. These include two 20-watt speakers with horns.

Scoreboards

- Light reflective portable (shown below)
- LED or light reflective numeric
- LED matrix
- Full-color video



Wireless Pro Pace Clock

SC/SC-5

P-2

5" Digital Scoreboard

"I have personally directed many National and International competitions over the past 10 years and have had fewer issues to deal with using a complete system of Colorado timing equipment for water polo than any other single brand or combination of systems available."

— NICK BABA, FORMER UNITED STATES WATER POLO TECHNICAL DIRECTOR

Colorado Time Systems is proud to sponsor United States Water Polo as the official scoring and timing system supplier.



Pace Clocks/Shot Clocks

Large, 10" LED digits (red or amber) can be adjusted for indoor or outdoor use. Multiple clocks can be synchronized for consistency on deck.



Basic Pace Clock/Shot Clock (PC-Portable/PC-Standard)



Wireless Pro Pace Clock/Shot Clock (PCW-Pro)

Choose the functions you need:

Basic Pace Clock

All of these units can be run as standalone pace clocks, or set to run in a series of pace clocks with or without a timer or controller. Every pace clock in a series displays the same information.

Shot Clock

Choose the Pro Pace Clock/Shot Clock, or the PC Portable version of the Basic Pace Clock for Water Polo Shot Clock functionality. Shot clocks must be connected to the timer. Additional clocks can be added to display game time, time out time, and team scores.

Wireless Capability

All versions of the Pace Clock/Shot Clocks are available with the ability to transmit and receive data wirelessly.

Special Training Modes and Display Options

The Pro Pace Clock/Shot Clock was designed with you and your athletes in mind, with 15 training modes to fine-tune skills and create customized workouts. It can also show a variety of display options. The Pro Pace Clock can be used either with or without a timer or controller.

Pro Pace Clock Training Modes

*Many modes require additional equipment for timing input. Contact your salesperson for details, and help in designing your ideal training system.

- Lap Counter
- Simple Pace Clock
- Pace Clock with Cumulative Splits
- Pace Clock with Lap Splits
- Relay Exchanges
- Start Reaction
- Turn Speed
- Breakout Time
- Start Reaction and Breakout Time
- Single Lane Lap Timer (1, 2, 3, 4 or multiple laps)
- Mid-Race Timer

Pro Pace Clock Display Modes

The Pro Pace Clocks can display the following information from a System 5 or System 6:

- All Sports: Time of Day
- Swimming: Lane times, Event/Heat
- Training: Lane times
- Diving: Dive Number & Position, Current Round/Current Diver
- Water Polo: Game Clock, Shot Clock, Time Out Clock, Team Scores
- Synchro: Award

Product Options

part #	description
PC-Standard	Basic Pace Clock with red LED digits, handle and legs. Two intensity settings. No battery; A/C only.
PC-Portable	Basic Pace Clock with red LED digits, internal horn and battery, handle and legs. Two intensity settings.
PC-Pro-R	Pro Pace Clock with red LED digits, internal horn and battery, handle and legs. Fifteen training modes (most require additional equipment for timing input). Fifteen levels of intensity settings.
UPC-C	Pace Clock Controller
PCW-Standard	Wireless Basic Pace Clock with red digits, handle and legs. Two intensity settings. No battery; A/C only.
PCW-Portable	Wireless Basic Pace Clock w/ red LED digits, internal horn and battery, handle and legs. Two intensity settings.
PCW-Pro	Wireless Pro Pace Clock with red LED digits, internal horn and battery, handle and legs. Fifteen training modes (most require additional equipment for timing input). Fifteen levels of intensity settings.
TR-3	Tripod Kit
PC-WMK	Wall Mount Kit
PC-FMK	Flush Mount Option

Available in red or amber (standard); or custom color for an additional fee.

Training Tools

- Pace Clock Pro
- QuickStart Pro
- RJP
- Touchpads
- Multizone Pads
- Underwater Speaker



Patent Pending

One lane system (TR-SYS-1)
Includes 30" touchpad,
RJPL-2020, QS-PRO, INF-SSM
and INF-SJ25.



QuickStart Pro



Absolute advantage

To become the fastest in the water, you need to train to become the fastest off the blocks. The QuickStart Pro from Colorado Time Systems can help you perfect your starts, relay exchanges and hand turn speeds. While your competitors are still listening to the start tone, you will be off the blocks and on your way to victory.

Designed by top coaches

Unites States' elite collegiate and USS coaches provided valuable information which helped CTS develop the QuickStart Pro. Designed to help swimmers achieve peak condition, it assists in fine tuning their starts, relay exchanges and hand turn speeds.

Five training modes

Right out of the box, the QuickStart Pro display can be used as a digital pace clock for running workouts from 0 to 59:59 minutes. When combined with other CTS equipment, it becomes a trainer to time starts, break-out times, relay exchanges and butterfly and breaststroke turn speeds.

Get the absolute advantage and improve your starts with the QuickStart Pro.

- Portable, easy to use and to operate.
- Operates on AC power or eight D-sized batteries.
- Four character display uses 4-inch LEDs.
- Size: 12" x 8" x 4" (36 x 24 x 12 cm)
- Weight: 5 lbs. (2.3 kg)

Underwater Speaker



"Those of you who know me know that I have a love for our sport. Because of that love, I wanted to join a company that was innovative for our sport – a place where I could make a difference. There's only one company that met my criteria, and that's Colorado Time Systems."

– BOB CLAUSON, NCAA MEET MANAGER

Colorado Time Systems is the Official Timing and Display System of ASCA, the American Swimming Coaches Association.



Numeric Displays



Colorado Time Systems' numeric scoreboards are a cost-effective way to provide information, involve the audience and showcase the athletes for all aquatic sports. Modules can be used singly or combined in multiple-module scoreboard designs.

Whether you choose light-reflective or LED digits, your display will enhance your program and provide exceptional visibility. Designed specifically for the swimming pool environment, your scoreboard's high-quality construction resists corrosion in any environment, giving you years of trouble-free service.

Panels can be added to the numeric scoreboard for sponsor advertising or facility/team name.

Numeric scoreboards can be set to display information for swimming, diving, water polo, synchronized swimming, track and other sports. The scoreboard may also serve as a time-of-day clock and pace clock.

Indoor and outdoor signage and message boards are also available.



Available in red or amber (standard); or custom color for an additional fee.

Scoreboard Specifications

General: Each one-line scoreboard module includes 8 seven-segment digits, 7 decimals, one colon and a non-glare weathershield. LED scoreboards are available with 8 or 10 digits.

Power: Power required is 110~125 or 220~240 VAC, 50/60 Hz. Normal operating power is less than 1 amp per scoreboard module. Each duplex receptacle is 125V Leviton #5352 or equivalent for country of installation. Receptacles must be in place before CTS installation. It is extremely important that the circuits used to power the scoreboard are not shared with other devices. The scoreboard is sensitive to "noise" on the AC Power line.

	LED Digits Light	Reflective Digits
Digits:	10.1" (25.7cm) high Red, green, amber, or blue LEDs forming seven-segment digits	(22.9cm) high Fluorescent yellow, light-reflective, seven-segment digits
Module	Height: 14" (35.6cm)	Height: 14" (35.6cm)
Dimensions:	Width: 97.625" (248cm) Depth: 4" (10.2cm) Weight: 45 lbs. (20.4kg)	Width: 102" (259.1cm) Depth: 5.25" (13.3cm) Weight: 72 lbs. (32.7 kg)

Mounting Options: Flexible mounting configurations are available for multiple-module designs. Modules may be configured vertically up to thirteen units and mounted in a corner or on a flat wall. Modules may also be configured side by side and flat wall mounted. Please specify when ordering.

Signage: Signage and sign holder panel(s) can be provided. Please inquire for details when ordering.

Data Cable: Specify length needed when ordering new system. Standard lengths: 100 feet, 150 feet, 200 feet.

Countdown Clock



Count down to any target time you specify.

Displays up to four digits for days, allowing for countdowns up to 9,999 days (more than 27 years!). Optional custom sign panels with sturdy enclosures are available to describe the countdown event a different sign panel can be ordered when you are ready to count down to a new event.

Power: Power required is 110~125 or 220~240 VAC, 50/60 Hz. Normal operating power is less than 1 amp per scoreboard module.

Digits: 10.1" (25.7cm) high

Red, green, amber, or blue LEDs forming seven-segment digits

Module Height: 14" (35.6cm)

Dimensions Width: 97.625" (248cm)

Depth: 4" (10.2cm)

Weight: clock - 45 lbs. (20.4kg), sign panel - 25 lbs. (11.3kg)

LED-REX

You can easily upgrade your light-reflective scoreboard to the newer LED versions with our retro-fit solution. Contact a Sales Consultant today for more information on this option.



6-Digit Scoreboard

Home/Guest Board with red digits
(LED6-HG)



Event/Heat Board with amber digits
(LED6-EH-A)



Dual Purpose Board with red digits
(LED6-DP)



Signage & Digits in one enclosure.

Finally, a scoreboard that incorporates the best of both worlds. CTS is pleased to introduce the new 6-digit scoreboard; ideal for those who are space- and cost-conscious, but don't want to sacrifice information provided by traditional single line scoreboards. The sleek design allows you to display home and guest scores OR current event and heat without the need for additional signage. Available with red or amber digits.

Module dimensions are the same as CTS standard single-line LED scoreboards: 14" (35.6cm) x 97.625" (248cm) x 4" (10.2cm), so these 6-digit boards stack beautifully with 8- and 10-digit boards. If you still want more, a dual purpose 6-digit scoreboard is available that allows you to show both scores and event/heat on the SAME LINE of scoreboard.

	Red	Amber
Home/Guest	LED6-HG	LED6-HG-A
Event/Heat	LED6-EH	LED6-EH-A
Dual Purpose	LED6-DP	LED6-DP-A

LED Matrix Displays

Single Color LED Displays

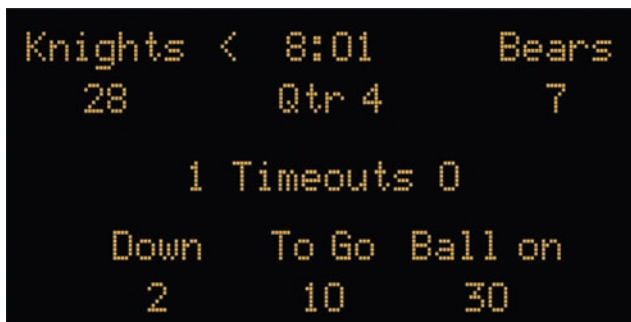
These dynamic boards can be programmed in seconds to display scores for multiple sports, as well as text, graphics, animations, and logos.

Although varying sizes are available, standard display pixel spacing suggestions are as follows:

- 18 mm for indoor displays (viewing distance 39' - 177') (11.89m x 53.95m)
- 30 mm for outdoor sports stadiums (viewing distance 65' - 294') (19.81m x 89.61m)
- 50 mm for outdoor billboards (viewing distance 108' - 490') (32.92m x 149.35m)

Please consult with your CTS/CDS representative to find the right board for you.

Available in red or amber.



La Jolla High School, CA

Description:

80 x 96 red 35 mm Outdoor Display



Clovis Olympic Swim Complex

Description:

96 x 160 red LED Matrix Scoreboard



LED Matrix Displays

Full Color LED Video Displays

Video scoreboards and displays can be used as a standalone unit or combined with numeric or single-color LED displays for added impact. Video boards display full color scores, text, graphics, animations, and logos for multiple sports.

These boards are suitable for indoor and outdoor use.

Although varying sizes are available, standard pixel spacing suggestions are as follows:

- 18 mm for indoor displays
(viewing distance 39' - 177') (11.89m - 53.95m)
- 30 mm for outdoor sports stadiums
(viewing distance 65' - 294') (19.81m - 89.61m)
- 50 mm for outdoor billboards
(viewing distance 108' - 490') (32.92m - 149.35m)

CDS can provide a complete deluxe standard size or custom video display for your facility. We offer a comprehensive solution, including: assistance with facility design, architectural guidelines, consulting during construction, project management, installation, operator training, post sales support, on-site service, game day management, and maintenance.



Princeton

Description:

10' x 15' Full Color 25 mm LED Video Display, Frame Structure, Facility ID Panel



Ohio State

Description:

10'6" x 36'9" Full Color 25 mm LED Video Display,
(6) Lower Ad Panels, Facility ID Panel



Campbell County

Description:

192 x 336 Full Color 12 mm Video Display
Tri-Color Matrix Scoreboard



Minnesota

Description:

11' x 15' Tri-Color 35 mm LED Animation Display (left),
11' x 19' Full Color 23 mm LED Video Display (right),
(8) Backlit Ad Panels, Facility ID Panel



Missouri

Description:

96 x 192 Full Color 35 mm Video Display
192 x 256 Full Color 18 mm Video Display



South Carolina

Description:

11' x 18' Full Color 35 mm LED Video Display



Newport Harbor High School

Description:

80 x 128 Full Color 30 mm Display (7' 9" x 12' 7")

Basic Numeric Scoreboard Controllers

ISC85X ISC850

Available in AC, DC, or the optional Radio Frequency (RF) wireless configuration.

A full-function backlit LCD display on the controller allows the timekeeper to keep an eye on the scoreboard status without having to constantly look up at the scoreboard.

Microprocessor controlled for digital timing accuracy.



ISC-HH

Used for standalone basketball shot clocks and hockey shots on goal.

Fits in your hand, and it's ready to use.

Wireless RF controller runs on a 9-volt battery.



Portable Scoreboards

9200 - Portable

4" Red LED digits

Visible at 160' (49m)

Dimensions: 26" x 14" x 8" (w/h/d)

Weight: 20 lbs (9 Kg)

Voltage: 110-125 VAC or 220-240 VAC, 60 Hz., 1/2A

Black aluminum cabinet with white vinyl lettering

ISC850 controller integrated in the back

Track and field mode available



LED Portable Scoreboard

5" Red LED digits

Dimensions: 48" x 13.75" x 4" (w/h/d)

Weight: 26 lbs (11.8 Kg)

Voltage: 110-120 VAC or 220-240 VAC



P-1 - Portable

9" Yellow light-reflective digits

Dimensions: 60" x 36" x 4" (w/h/d)

Weight: 66 lbs (30 Kg)

Black aluminum cabinet



RT-1 - Portable

9" Yellow light-reflective digits

Dimensions: 60" x 13" x 4" (w/h/d)

Weight: 39 lbs (14.6 Kg)



RT-5 - Portable

9" Yellow light-reflective digits

Dimensions: 60" x 13" x 4" (w/h/d)

Weight: 38 lbs (14.2 Kg)



Portable Scoreboards

P-3 - Portable

9" Yellow light-reflective digits

Dimensions: 60" x 23" x 4" (w/h/d)

Weight: 38 lbs (17.2 Kg)

Black aluminum cabinet



P-4 Portable

9" Yellow light-reflective digits

Dimensions: 60" x 46" x 4" (w/h/d)

Weight: 66 lbs (29.9 Kg)



Portable Scoreboard Caddy

For use with P-1, P-3, and P-4 portable scoreboards

Dimensions: 60" x 32" x 11" (w/h/d)

Weight: 61 lbs (27.7 Kg)



CAD-LED

Mount up to 5 lines of LED scoreboard for portability and support of multiple sports.



Time of Day/Countdown Clocks

1200

4" Red LED digits

Dimensions: 20" x 8" x 4" (w/h/d)

Weight: 10 lbs (4.5 Kg)

Voltage: 110-120 or 220-240 VAC 60 Hz., 1/4A.



1210

10" Red LED digits

Dimensions: 40" x 14" x 6" (w/h/d)

Weight: 20 lbs (9 Kg)

Voltage: 110-120 or 220-240 VAC 60 Hz., 1/2A.



1220

10" Red LED digits

Dimensions: 40" x 14" x 6" (w/h/d)

Weight: 20 lbs (9 Kg)

Voltage: 110-120 or 220-240 VAC 60 Hz., 1/2A.

Display for real time or rental time

Interface box for setting rental time

100 dB horn included



1230

10" Red LED digits

Dimensions: 40" x 28" x 6" (w/h/d)

Weight: 30 lbs (13.6 Kg)

Voltage: 110-120 VAC 60 Hz., 2A.,
or 220-240 VAC 60 Hz., 1A

Display for real time or rental time

Interface box for setting rental time

100 dB horn included

Advertising Panel: top-mounted, optional backlighting –
40" x 14" x 6" (w/h/d)



Countdown Clock

10" Red LED digits

Dimensions: 97.625" x 14" x 4" (w/h/d)

Weight: 45 lbs (20.4 Kg)

Voltage: 110-125 or 220-240 VAC, 50/60 Hz, <1A

Countdown to any target time you specify.



All time clocks: black aluminum cabinets, pre-programmed for daylight savings, battery backup and wall mounting brackets are included.

Baseball Scoreboards

7223

22" Red LED digits for statistics

17" (or 15") Red LED digits for score

Visible up to 600' (183m)

Dimensions: 312" x 96" x 10" (w/h/d)

Weight: 680 lbs (308 Kg)

Voltage: 110-120 VAC, 60 Hz., 25A.,
or 220-240 VAC 60 Hz., 13A



7100

14" Red LED digits

LED hit and error indicators

Dimensions: 108" x 30" x 6" (w/h/d)

Weight: 60 lbs (27 Kg)

Voltage: 110-120 VAC, 60Hz., 4A;
or 220-240 VAC, 60Hz., 2A

Includes wireless controller



7200

14" Red LED digits

LED hit and error indicators

Visible up to 400' (139m)

Dimensions: 108" x 60" x 6" (w/h/d)

Weight: 120 lbs (54 Kg)

Voltage: 110-120 VAC, 60Hz., 8A;
or 220-240V, 60Hz., 4A



7210

22" Red LED digits for statistics

17" Red LED digits for score

Visible up to 600' (183m)

Dimensions: 216" x 96" x 6" (w/h/d)

Weight: 300 lbs (136 Kg)

Voltage: 110-120 VAC, 60Hz., 5A;
or 220-240VAC, 60Hz., 3A



7230

24" Red LED digits

Dimensions: 108" x 76" x 6" (w/h/d)

Weight: 120 lbs (54 Kg)

Voltage: 110-120 VAC, 60Hz., 5A;
or 220-240 VAC, 60Hz., 3A



Baseball 7000 series scoreboards come in a black aluminum cabinet with white vinyl lettering.

The ISC85X intelligent scoreboard controller is included with each Baseball 7000 series scoreboard.

Most scoreboards can be fitted with electronic team names in place of vinyl lettering.

Baseball Scoreboards

BA-1

12" Yellow light-reflective digits

Dimensions: 138" x 27" x 4" (w/h/d)

Weight: 71 lbs (32.2 Kg)



BA-2

12" Yellow light-reflective digits

Dimensions: 120" x 52" x 4" (w/h/d)

Weight: 116 lbs (52.6 Kg)

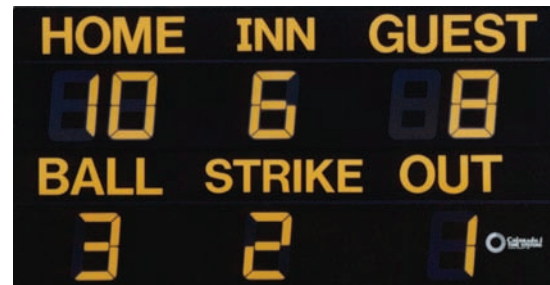


BA-3

12" Yellow light-reflective digits

Dimensions: 96" x 52" x 4" (w/h/d)

Weight: 100 lbs (45.4 Kg)

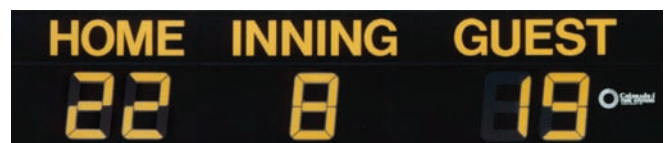


BA-4

12" Yellow light-reflective digits

Dimensions: 120" x 27" x 4" (w/h/d)

Weight: 66 lbs (29.9 Kg)



Basketball Scoreboards

5200

10" Red LED digits

Optional 14" Red LED digits for time

Dimensions: 108" x 46" x 4" (w/h/d)

Weight: 80 lbs (36 Kg)

Voltage: 110-120 VAC, 60Hz., 3A; or 220-240 VAC, 60Hz., 2A



5210

10" Red LED digits for time

Optional 14" Red or yellow LED digits for time

10" Red LED digits for scores, period, fouls, and player fouls

Indicator LEDs for bonus, double bonus, and possession

Dimensions: 114" x 70" x 4" (w/h/d)

Weight: 140 lbs (64 Kg)

Voltage: 110-120 VAC, 60Hz., 4A; or 220-240 VAC, 60Hz., 2A



5240

14" Red LED digits for time

10" Red LED digits for score

7" Red LED digits for period

Dimensions: 72" x 42" x 4" (w/h/d)

Weight: 60 lbs (27 Kg)

Voltage: 110-120 VAC, 60Hz., 2A; or 220-240 VAC, 60Hz., 1A



Shot Clocks

10" Red LED digits

(optional digit sizes - 14", 17" or 22" - cabinet sizes will change accordingly)

Dimensions: 20" x 14" x 4" (w/h/d)

Voltage: 110-120 VAC, 60Hz., 1/2A

Wall mounting brackets

Digital timing accuracy achieved with the latest in microprocessor technology.



Basketball scoreboards and shot clocks come in a black aluminum cabinet with white vinyl lettering.
The ISC85X intelligent scoreboard controller is included with each Basketball 5000 series scoreboard.

Football Scoreboards

8200

22" Red LED digits for time & score

17" Red LED digits for all others

Dimensions: 180" x 96" x 6" (w/h/d)

Weight: 190 lbs (86 Kg)

Voltage: 110-120 VAC, 60 Hz., 6A

Electronic team names available

Advertising Assembly mounted on top,
measuring approximately 15' X 18"
(non-backlit)



FB-1

12" Yellow light-reflective digits

Dimensions: 120" x 52" x 4" (w/h/d)

Weight: 116 lbs (52.6 Kg)



FS-1

12" Yellow light-reflective digits

Dimensions: 138" x 27" x 4" (w/h/d)

Weight: 71 lbs (32.2 Kg)



Football 8000 series scoreboards come in a black aluminum cabinet with white vinyl lettering.
The ISC85X intelligent scoreboard controller is included with each Football 8000 series scoreboard.

Hockey Scoreboards

6240

14" Yellow LED digits for time

10" Red LED digits for score

7" Yellow LED digits for period

Dimensions: 72" x 42" x 4" (w/h/d)

Weight: 50 lbs (23 Kg)

Voltage: 110-120 VAC 60 Hz., 2A.,
or 220-240 VAC 60 Hz., 1A



6250

14" Red LED digits for time and score

10" Red LED digits for period and penalty

Dimensions: (4-sided) 108" x 92" x 4" (w/h/d)

Weight: 500 lbs (227 Kg)

Voltage: 110-120 VAC 60 Hz., 20A.,
or 220-240 VAC 60 Hz., 10A

Ad space: 24" x 38" on top, 24" x 48" on bottom



Shot on Goal Counter Clock

14" LED digits

Dimensions: 60" x 36" x 6" (w/h/d)

Voltage: 110-120 VAC 60 Hz., 1A.,
or 220-240 VAC 60 Hz., 1A

Wall mounting brackets



Ask us about Electronic Team Names

Most scoreboards can be fitted with electronic team names in place of vinyl lettering.



All hockey scoreboards come in a black aluminum cabinet with white vinyl lettering.
The ISC85X intelligent scoreboard controller is included with each Hockey 6000 series scoreboard.

Hockey Scoreboards

6200

14" Red LED digits for time and score

10" Red LED digits for period, penalty and player

Dimensions: 108" x 92" x 4" (w/h/d)

Weight: 150 lbs (68 Kg)

Voltage: 110-120 VAC, 60 Hz., 5A.,
or 220-240 VAC, 60 Hz., 3A



6210

14" Red LED digits for time and score

10" Red LED digits for period and penalty

Dimensions: 108" x 92" x 4"

Weight: 150 lbs (68 Kg)

Voltage: 110-120 VAC, 60 Hz., 5A.,
or 220-240 VAC, 60 Hz., 3A

Advertising space: 46" x 36" (w/h)



6220

14" Red LED digits for time and score

10" Red LED digits for period, penalty and player

Dimensions: 216" x 46" x 4" (w/h/d)

Weight: 150 lbs (68 Kg)

Voltage: 110-120 VAC, 60 Hz., 5A.,
or 220-240 VAC, 60 Hz., 3A



6225

14" Red LED digits for time and score

10" Red LED digits for period and penalty

Dimensions: 216" x 46" x 4" (w/h/d)

Weight: 150 lbs (68 Kg)

Voltage: 110-120 VAC 60 Hz., 5A.,
or 220-240 VAC 60 Hz., 3A



All hockey scoreboards come in a black aluminum cabinet with white vinyl lettering.
The ISC85X intelligent scoreboard controller is included with each Hockey 6000 series scoreboard.



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