

# PHOTO GALLERY



2004 Ivy Champion -- Princeton



# OTHER CTS PROJECTS



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Aquatic Center | 23mm Video Display



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# CASE STUDY

Princeton University  
DeNunzio Pool

Colorado Time Systems  
Princeton University

Bruce Carney  
Jeff Graydon



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# CASE ABSTRACT

This case study documents the equipment upgrade at DeNunzio Pool at Princeton University. Recognizing that a multitude of companies participated in the upgrade, the primary focus of this document is directed at the interaction between Colorado Time Systems (CTS) and Princeton University.

Princeton University has one of the fastest pools in the nation and the facility hosts major swimming and diving events. However, their equipment was quickly becoming outdated. Princeton needed the newest timing and scoring equipment, as well as a new display that could provide entertainment value for the audience. CTS designed the aquatic system and supplied the facility with pace clocks, start systems, timing systems, touchpads, relay judging platforms, and a video display board. The newly installed 25mm RGB full-color video display is capable of displaying a wide range of images that include: DVDs, scoring information, and live camera feeds with or without scoring overlays.

*"As an Ivy League school, it is important that we have state-of-the-art equipment throughout our facility. The Colorado solution was the best available, and at a great price."*

--Bruce Carney  
Aquatics Director



# DESIGN AND INSTALLATION PROCESS

Once awarded the contract for DeNunzio Pool, Colorado Time Systems worked quickly to have the board installed prior to the 2005 Ivy League Championships.

A CTS consultant reviewed the initial design, and made detailed suggestions on the equipment that needed to be upgraded and the scoreboard/video display.

The video display is an impressive 10- x 15- foot or 128 x 288 pixel board.

"CTS designed a solution that would upgrade our entire system and bring in entertainment value for our audience. The video display is incredible. I know that there are other video displays available, but our display exceeds the others in clarity and functionality. We are very impressed," said Bruce Carney.



# FIRM QUALIFICATIONS

**Colorado Time Systems**, established in 1972, provides premier sports facilities with platinum quality timing, scoring and display systems. More than 85% of universities utilize CTS systems for aquatic competition and training.

CTS professionals assist architects, designers, and contractors in establishing the design requirements for a complete natatorium system. CTS is responsible for ensuring that the client's needs are met by specifying equipment, supplying and verifying drawings and installing all aspects of the system.



**DeNunzio Pool at Princeton University** was constructed in 1990 with state-of-the-art design and technology, making it among the fastest pools in the nation. DuNunzio hosted the 1999 Ivy League Swimming and Diving Championships as part of the League's 25th anniversary of women's athletics, as well as the 2005 Ivy League Championships.



# PROJECT SUMMARY

DeNunzio Pool at Princeton University measures 50 meters by 25 yards with a minimum depth of nine feet and a maximum depth of 17 feet. DeNunzio Pool features:

- | Spectator seating for 1,700
- | Locker rooms, exercise room, offices and a conference room
- | Diving well
  - | 1- and 3-meter springboards
  - | 10 meter platform with intermediate towers

The competition pool and diving well are equipped with complete timing, scoring and display systems that include: Touchpads, touchpad caddy, relay judging platforms with Speedlights, Championship start systems, System 6 Timing System with Swimming, Diving, Water Polo, Synchro, and Pace Clock software, QuickStart, pace clocks, and a 25mm RGB video display.

*"Upgrading our equipment was one of the best decisions we could have made. The new video board guaranteed compatibility with all of our existing timing and scoring equipment."*

*The video display has well exceeded our expectations.*

*The staff at Colorado Time Systems have been wonderful to work with."*

-- Bruce Carney