



Lubell Labs Complete Air and Water Sound System



Single unit (front & rear view)

Lubell Labs Inc. of Columbus Ohio USA proudly presents the CAWSS-Stageman System, a patented Complete Air & Water Sound System designed for the sport of Synchronized Swimming. This highly portable battery operated system operates for up to 10 hours per charge, and faithfully reproduces your music files via Bluetooth connection to phone, tablet, or computer, or via USB flash drive or SD card inserted into the built-in digital player/recorder. Separate 250 watt amplifiers and volume controls allow independent volume level settings of the built-in 8 inch coax woofer for the natatorium, and the externally connected 9.250 inch Lubell underwater speaker lowered to the bottom of the 25 meter swimming pool. The included UHF wireless hand microphone allows the coach to clearly communicate with the swimmers; Engaging the VOICE PRIORITY switch will even automatically reduce the music level while the coach is speaking. A built in mixer with combo XLR/TRS jacks allow connection of two optional wired microphones (or line level devices), and a 3.5 mm mini-stereo input jack allows connection of equipment operator's mp3 player or computer. The LINE OUT jack allows connection to built-in sound systems at larger venues, for rebroadcasting the sound to the audience. Additionally, separate BASS and TREBLE controls allow fine tuning and correction of the music being reproduced, and the EFFECTS control adds reverb if desired. The included universal 100-240V AC adapter/charger with mating area-specific power cords (with international safety compliance markings) allow safe worldwide use of system.

For competitive synchronized swimming and competitive swimming, Lubell Labs offers the 500 watt (250 watt x 2) CAWSS **APEX PRO** system, which is not as portable, but is significantly louder.

Lubell Labs founder, WWII veteran Alan Lubell (an MSEE formally with Hughes Aircraft), invented the pistonic piezoelectric underwater loudspeaker back in 1965, and received a patent for this remarkable miniaturized broadband design. Not only is the design efficient, but also extremely dependable and long lasting due to its rugged dual PVC overmolded aluminum piston construction. Because of this remarkable engineering feat, one Lubell underwater speaker outperforms up to 50 competing technology's products, greatly lowering cost and simplifying installations. And due to this advantage, Lubell underwater speakers are demanded by

leading professionals and organizations around the world including NASA, US Navy, USGS, Olympics, Aquarius Underwater Habitat, Monterey Bay Aquarium, Bellagio, Le Reve, Sea World, Weeki Wachee Springs, Woods Hole Oceanographic Institute, and others. Lubell speakers are even used in most blockbuster movies having underwater footage including Abyss, Armageddon, Flipper, Harry Potter, James Bond [Skyfall](#), Pearl Harbor, and Waterworld!

PRICE:

- CAWSS-C (includes [LL916C](#) cage mounted Lubell underwater loudspeaker): **Retail (MSRP) Price: \$3644 | School Price: \$3462 | USASS / CAS Member Price: \$3288**
- CAWSS-H (includes [LL916H](#) harnessed Lubell underwater loudspeaker): **Retail (MSRP) Price: \$3377 | School Price: \$3208 | USASS / CAS Member Price: \$3048**
- OPTIONS: [DC-35 weather-resistant slip cover](#) (\$62); [CMM-103 3.5 mm stereo interconnect](#) (\$9) connects user's headphone jack to the CAWSS system's mating 3.5 mm [LINE INPUT](#) jack

INCLUDED ITEMS:

- Chiayo 400 watt (200 watt x 2) amplified wireless Bluetooth sound system. TW CE 8518.50.0000. Net weight/dims: 23 pounds / 17 IN x 12 IN x 10 IN (HWD); shipping weight/dims: 36 pounds / 15 IN x 15 IN x 25 IN (HWD)
- Chiayo handheld UHF wireless microphone model SQ-6100 frequency 6SDR520. TW CE 8525.50.6050. Net weight: 0.75 pounds / 10 IN length
- Chiayo 100-240V 50-60Hz AC adapter/ battery charger model 12V1079B. CH CE UL-C CCC FCC 8504.31.2000. 1.4 pounds / 6 IN x 2 IN x 1.3 IN (HWD). Choice of US [cord](#), EU Schuko CEE7/7 [cord](#), or UK BS1363 [cord](#).
- Lubell LL916C-025 cage mounted underwater speaker (17.6 pounds / 11 IN x 11 IN x 7.8 IN), or LL916H-025 harnessed underwater speaker (12 pounds / 9.2 IN diameter x 5.8 IN axial length). US CE RoHS 8518.21.0000
- Lubell AC202C audio isolation transformer box (meets FINA requirements - connects between amplifier and underwater speaker). US CE 8504.31.4065, 3 pounds / 2.5 IN x 5.2 IN x 4.7 IN (HWD)

DOWNLOADS:

- [Printable](#) version of page, StageMan [manual](#), rear panel [enlargement](#), CAWSS-H [photo](#), FAQ [page](#), LL916C & LL916H [guide](#), [brochure](#), SPL [plot](#), TVR on/off axis [plot](#), CE [certification](#), RoHS/REACH [declaration](#).

NOTES:

- Instructional YouTube Videos: [Setting up your CAWSS System](#), [Installing wireless mic batteries and changing channels](#), [replacing SDR-5100M UHF wireless mic module](#), changing system batteries, blue tooth pairing...
- TROUBLESHOOTING: The systems hold up well when connected to a single Lubell LL916C or LL916H underwater speaker via [AC202C](#) or AC205C gray box. Connecting multiple speakers, or Lubell speaker with no transformer box, or Oceanears speaker will burn out the amplifier. Please do not boost the bass and treble controls; Leave at 12:00 position. If the underwater sound stops but the above water speaker continues operating, this indicates that the protective thermal fuse for the underwater speaker has triggered due to overload; Turning system off for 1 minute will reset the fuse. Turn system back on and reduce the bass control to 11:00 position; Excess bass will trigger protective thermal fuse. In addition, the internal batteries must be replaced every 2-3 years on average. Your local [Batteries Plus](#) store carries and installs the [Duracell WKDC12-5F](#) batteries (2) required for this device. (Long WP5-12 batteries may also be used.) Please make sure the battery terminals are bent properly per this [diagram](#)!



Official Equipment Sponsor USA Artistic Swimming

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