



COMPETITIVE SWIMMING SOUND SYSTEM

Lubell Labs CAWSS-APEX



Single unit (front & rear view)

DESCRIPTION:

Lubell Labs Inc. of Columbus Ohio USA proudly presents the CAWSS Apex Complete Air & Underwater Sound System, which provides **LOUD & CLEAR air and underwater sound!** This powerful state-of-the-art system is proven for training high school and collegiate competitive swimmers, allowing coaching via wireless microphone, or music and beats via Bluetooth or digital media. This remarkable system holds many patents, and carries the distinction of being the first truly affordable performance system offered to the sport of Competitive Swimming. Lubell Labs also offers the [CAWSS Stageman](#) for Synchronized Swimming.

Lubell Labs invented the Underwater Loudspeaker in 1965, and holds the patent for this unrivaled high-efficiency broadband design. Not only is the design efficient, but also extremely dependable and long lasting due to its rugged PVC, aluminum, and stainless steel construction. Because of this remarkable engineering feat, one Lubell underwater speaker outperforms up to 50 of the competing brand'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: USA Artistic Swimming, NASA, the Armed Forces, 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 [Videoblog](#) "Underwater"), Pearl Harbor, and Waterworld.

Some of the key features of the CAWSS system include: 1) **Bluetooth**, for wireless connection of song and sound files from your phone, tablet, or computer; 2) **USB SD player/recorder** with remote plays all your MP3, WMA, and WAV files, and can record input via Bluetooth and mixer; 3) **Patented IrDA handheld UHF wireless mic** with rugged metal body allows clear paging of audience and coaching of swimmers; 4) **Separate volume controls for air and underwater speakers** allows independent adjustment of each zone; 5) **Twin high-power 250 watt digital amplifiers** for air and underwater speakers means extremely powerful sound with long battery life (up to 10 hours); 6) **Automatic Digital Limiter** prevents output distortion of music; 7) **Selectable ducking** switch automatically lowers music level when announcements are made; 8) Combo XLR mixer inputs (with mic/line switch) for connecting additional microphone or line inputs; 9) **3.5mm line input jack** with volume control for connection of smart phone, tablet, mp3 player; 10) **Digital input** for connecting PC/notebook via USB cable; 11) **Patented high-efficiency Lubell LL916C underwater speaker** with FINA required transformer box provides unrivaled clarity and range; 12) **Active out (XLR)** for sending music to "house system" at large venues, or for daisy-chaining *any number* of Lubell CAWSS-Apex systems; 13) **Universal 100-240V AC adapter/charger** (standard IEC C14 socket) with international safety compliance markings for worldwide use of system. The system incorporates a built in telescoping handle, wheels, and a storage compartment to house the wireless mic and battery charger while transporting.

INCLUDED ITEMS:

- Chiayo 500 watt (250 watt x 2) amplified wireless Bluetooth sound system. TW CE 8518.50.0000. Net weight/dims: 48 pounds / 22 IN x 15 IN x 13 IN (HWD); Gross weight/dims: 57 pounds / 27 IN x 17.25 IN x 18.25 IN (HWD)
- Lubell LL916C cage mounted underwater speaker. US CE 8518.21.0000. Net weight/dims: 18 pounds / 11 IN x 11 IN x 7.8 IN (HWD); Gross weight/dims (including AC202C) 22 pounds / 16 IN x 13 IN x 13 IN (HWD)
- Lubell AC202C audio isolation transformer box (FINA specified). US CE 8504.31.4065, 3 pounds / 2.5 IN x 4.7 IN x 5.2 IN (HWD)
- Options: Order underwater speaker with 50 foot cord instead of 25 foot (add \$35); [CMM-103 3.5 mm stereo interconnect](#) (\$6) connects user's computer or mp3 player to the Apex "LINE INPUT" jack
- **PRICE: CAWSS-APEX USD\$3845**

DOWNLOADS:

- [Printable](#) version of this page. Apex Pro [brochure](#), [manual](#), enlarged rear panel [picture](#), [FAQ](#). LL916C [guide](#), [brochure](#), [SPL plot](#), [TVR on/off axis](#), [CE Certification](#), [RoHS/REACH declaration](#).

NOTES:

- PLEASE do not lift the Chiayo Apex Pro by its telescoping handle.. it will break. Please replace batteries with matching pair of following deep-cycle batteries only: [Long WP5-12](#), [MK ES5-12](#), Duracell (Batteries Plus) [WKDC12-5F](#), [Interstate SLA1055](#). Battery terminals must be bent correctly per this [picture](#).



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