



# Unity™ UCS1P

15-inch Powered Subwoofer

## Features:

- **Integrated 2400 Watt Amplifier (1500 Watts Program)**
- **15-inch Long Excursion 8-ohm Driver**
- **Compact Size (11.1 cubic feet)**
- **3-inch Voicecoil**
- **Solid 15mm 11-ply birch plywood cabinet**
- **Heavy gauge perforated metal grille**
- **Built in heavy duty casters and tiltback handle**
- **Two-year unconditional warranty\***

\*Warranty valid in Canada and the United States only



## Overview:

The Active UCS1P is the ideal active subwoofer solution for use with any combination of Unity™ loudspeaker full-range cabinets. The 1500-watt integrated power amplifier takes full advantage of the cabinet's horn-loaded design and single 15-inch long excursion driver to deliver enough bottom end support for virtually any PA application.

The unmatched performance of the UCS1P is the direct result of outstanding cabinet design combined with innovative integrated electronics designed to maximize the UCS1P's output. The UCS1P can be connected to any line or speaker level source via the XLR / TRS Combi-jack input. Built-in crossover circuitry means the UCS1P can be added to any system without complicated external crossovers being required. Multiple UCS1P's can be integrated into any setup using the XLR or 1/4" TRS balanced thru put on each power module.

The UCS1P is made with a solid 15mm 11-ply birch plywood cabinet construction and has a heavy gauge perforated metal grill to protect the components. Integrated wheels and bar handles make moving and stacking the UCS1P as easy as it can possibly be for a subwoofer in this class.

The UCS1P comes in a black carpet covering to mate with the U15, U215 and U15P.

## Unity™ Series Overview

The Unity™ Series of loudspeakers is a radical loudspeaker cabinet design utilizing the patented Unity™ Summation Aperture Horn Technology, which was invented by loudspeaker designer Tom Danley and licensed from Sound Physics Labs Inc.

The Unity™ Series pushes the limits of modern state-of-the-art sound reinforcement technology, which features a radical new loudspeaker horn design, arguably the first major evolution in horn technology in the last 60 years. Ultra clear reproduction through the high-mid band with extremely linear frequency response has been achieved using the patented\* Unity™ horn technology, licensed from Sound Physics Labs Inc. Unity™ horn technology combines a single 1" throat with a 1.75" diaphragm high frequency compression driver alongside three 5" ceramic magnet midrange drivers on a single, highly efficient conical horn. This combines high and mid frequency energy in a single 60° x 60° conical horn that produces frequencies from 300Hz to 20kHz. Patent holder Tom Danley explains it this way. "With a conical horn, one sees that at the compression driver exit, the expansion rate is very rapid at high frequency cutoff, and since the expansion rate acts as a high pass filter, the low frequency energy does not couple to the mouth. Move a few inches toward the mouth and one finds the expansion rate is much slower and suitable for low midrange, if only that was where the driver was. All one has to do is obtain a mid driver, suitable for efficient horn loading in that frequency band and find the point in the flare where the expansion rate is suitable for that frequency range and couple the sound in at that point. Because the compression driver and each mid driver are less than 1/4 wavelength apart, their output combines fully and coherently, something which cannot happen if the driver were further than about 1/3 wavelength apart." \*U.S. Patent # 6,411,718 B1

### Unity™ UCS1P Specifications:

Model	UCS1P
SYSTEM TYPE	Horn Loaded Subwoofer
ACTIVE OR PASSIVE	Active
PROGRAM POWER (Watts)	2400 Watts (1500 Watts Peak)
MAX SPL (dB)	139dB Peak (133dB Continuous)
FREQUENCY RESPONSE (Hz +/- 3db)	37 - 120
LF DRIVER(s)	15 inch, Ceramic Magnet, 3 inch voicecoil
LF PROTECTION	Thermal / Overcurrent / Clip
POWER CONSUMPTION (typ/max)	792/960VA (8A@120V, 4A@230V)
INPUTS - XLR	1 line/speaker level Combi-Jack input
LED INDICATORS	Clip, Limit
OTHER CONTROLS / FEATURES	Active Controls: Master Level Bass Boost Level HF Rolloff Frequency (80-150Hz) Hi-Pass Output Rolloff Switch (90Hz, 100Hz, 110Hz) Hi-Pass XLR Output Speaker / Line level input switch
CORNERS	Metal
FEET	Rubber
WHEELS	2 (Rear)
BAR HANDLES	2 (Side), 1 (Rear), 1 (Bottom)
POLE MOUNT ADAPTER (1 3/8"-3.5cm)	1 (Top)
ENCLOSURE MATERIALS	15mm (5/8inch) 11-ply Russian Birch
GRILLE	Perforated Metal
COVERING / FINISH	Black Ozite (Carpet)
DIMENSIONS (DWH xbackW, inches)	27 x 22.25 x 41
DIMENSIONS (DWH xbackW, cm)	68.6 x 56.5 x 104