



Digital Servo

DS-10

ELEGANT, EASY AND ACCURATE SUBWOOFER

What's so special about the Digital Servo-10 subwoofer technology that the world's most revered reviewers have said things like the "...*(it) improves bass reproduction as much as the jet engine improved air travel*" and have awarded it "*The Best Subwoofer Technology*"? The answer can be found in Dr. John Johnson, Jr.'s statement that it "*corrects the biggest problem we have in low frequencies for our home theaters, those dips and peaks.*" The DS-10 is one of the most sophisticated systems in the world for delivering accurate, powerful bass to your listening position, only surpassed by Velodyne's Digital Drive^{usb} subwoofers.

Features

- Small cabinet dimensions
- An intuitive, LED front panel display
- One-button Self-EQ for 8-band room equalization
- Customizable listening mode presets and Night-mode
- Advanced Auto-EQ and Manual-EQ options



Stealth Size that Showers You with Powerful Bass

It may seem like magic that the DS-10, designed as small as physically possible, can deliver musical accuracy and visceral, ultra-low bass that you actually feel. The Digital Servo-10 truly raises the standards by which subwoofers are measured to a new level. Heck, if all you did was open the box and plug in the DS-10, it would be king of the mountain in the subwoofer world. You can tuck your utility-finished DS-10 into a corner, or cabinet, but you might be tempted to show off this classic satin black finish along with its big bass sound.

An Easy and Elegant Solution to Room-induced Bass "Dips and Peaks"

A critical factor that dramatically affects a subwoofer's performance is how the room's shape, size, and appointments impact the reproduction of bass frequencies. All rooms create anomalies in the subwoofer's frequency response and can wreak havoc on the interaction between the subwoofer and the main speakers. Often, overcoming this phenomenon requires extensive additional technology, learning and time on your part to understand and correct. The good news is that thanks to the Digital Servo-10's Digital Drivetm room management technology getting the best performance at your listening position no longer demands an engineering degree. Just place the included microphone at your listening position and press the remote's EQ button. The DS-10 subwoofer does the rest as it automatically corrects for bass interactions caused by its position and the room itself using its eight bands of EQ. It's that easy!

Advance Your Bass Equalization

If you want to embrace your inner engineer and further improve the bass to your liking, you can use the Auto-EQ and Manual-EQ capabilities. Just follow along in the owner's manual that gives you the know how to tweak the EQ filters and adjust other audio parameters. Being in charge of great bass has never been this easy.

Low Distortion Equals Great Sound

A major challenge to accurate subwoofer performance is overcoming shockingly high levels of distortion (as much as 30%) that make most subwoofers muddy, boomy, and lacking in definition and clarity, especially at higher playback levels. Velodyne's exclusive digital accelerometer-based Digital High Gain Servo technology lowers distortion at all frequencies, allowing the DS-10 to exhibit less than 1% distortion during playback.

Control Your Subwoofer - See & Hear Instantaneous Results

Remote controls are convenient, but not if you can't tell what setting you changed and by how much. So, the DS-10's intuitive, interactive display informs you immediately what remote control commands you are sending to your subwoofer. The DS-10 comes with a remote control and with factory presets for different music sources and movies. Change a preset to maximize your subwoofer for music, movies or games, switch to the neighbor-friendly "Night" mode, adjust the crossover, or simply change the volume and the front panel LED display responds to verify your command.

In-the-Box Bass Goodness

And unlike subwoofers from other companies, the Digital Servo-10 ships with a calibrated microphone, cables, built-in signal generator, and remote control - everything you need to enjoy bold, bass goodness right in the box!

Finest Components for Superb, Lasting Performance

Like a winemaker hand-picking the perfect mixture of the best grapes to make an award-winning wine, Velodyne engineers selected the optimum combination of the finest components to make the DS-10 an awesome sounding subwoofer that stands the test of time. Some of the elite components of the DS-10 include:

- A 1250 watt RMA (300 watts Dynamic Power) 97% efficient, patented Class-D amplifier
- Velodyne's Digital High Gain Servo System that corrects cone movement almost 16,000 times per second to lower distortion well below audible levels (less than 1%)
- A high-speed DSP processor for tuning and control
- An ultra-stiff Kevlar-reinforced cone
- A proprietary 3" dual-tandem, multi-layer voice coil
- A massive 19.3 lb. magnet structure
- A die-cast aluminum basket
- A braced cabinet with a furniture grade satin black finish

SPECIFICATIONS

Model	DS-10	INPUTS	
Driver	10" forward firing (8" piston diameter)	LFE (Mono)	Line Level (RCA), Nominal Impedance 47K
Class "D" Amplifier	3000 watts Dynamic, 1250 watts RMS power	Balanced (XLR)	Balanced (XLR), Nominal Impedance 10K
Frequency Response	18 - 120 Hz +/-3 dB	Input (L&R)	Line Level (RCA)
THD	<1% (typical)	Microphone	Balanced (mini XLR, cable included)
High-Pass Crossover	80* Hz @ 6 dB / octave	Speaker Level (L&R)	Bare wire, banana plugs, or spade lugs
Low-Pass Crossover	15 - 199 Hz (1 Hz increments) selectable slopes Default: 80 Hz @ 24 dB / octave	OUTPUTS	
Subsonic Filter	15 - 35 Hz (1 Hz increments) selectable slopes Default: 15 Hz @ 24 dB / octave	Thru (L&R)	Line Level (RCA)
Phase	0 - 180 degrees (15 degree increments)	Output (L&R)	Line Level (RCA)
Polarity	Adjustable (+ / -)	EQ Output	Line Level (RCA) for Test Signal L/R and Video (cables included)
Magnet Structure	310 oz. (19.3 lbs.)	Included Accessories	Full feature remote control, Digital Drive Accessory Kit
Voil Coil	Tandem 3-inch push-pull	Cabinet (HxWxD) (including feet)	11.75" x 11.75" x 13.5" (30 cm x 30 cm x 34 cm)
Cone	Kevlar-reinforced resin	Warranty (parts/labor)	Three years (electronics), Five years (drivers)
		Shipping Weight (Approx.)	57 lbs. (26 Kg)
		Finish	Satin Black

* Note: Varying speaker and amplifier input load impedances may cause the high-pass crossover frequency to slightly vary.



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