



# VDR Series

DSP - CONTROLLED SUBWOOFERS

VDR-10 and VDR-12



VDR-10



VDR-12

The new, remote controlled VDR Series is powered by time tested and proven amplifiers, each digitally tuned and controlled. You can customize your listening experience by selecting any of four digital presets on its remote control: one each for Movies, R&B/Rock, Jazz/Classical, and Games, plus Velodyne's Night Mode setting.

## Features

- DSP digital control for greater accuracy
- Convenient full-feature remote control
- 4 customized digital listening presets
- Night-mode setting
- Built-in High Dynamic Power (HDP) amplifiers
- Anti-clipping circuitry to limit amplifier distortion



## DSP Controlled

The VDR Series features full Digital Signal Processing (DSP) at very affordable prices. All functions are controlled digitally: the four individual presets for customized listening; volume control; night mode; low-pass crossover and slope; subsonic frequency and slope; distortion-limiting and protection circuitry. DSP control and tuning means that the VDR subwoofers produce the lowest distortion, deepest bass and the highest output possible, while reproducing music accurately and complementing your main speakers.

## Convenient Remote Control

The included full-feature remote control makes it a snap to integrate your VDR subwoofer into your system and access your listening preferences from the comfort of your favorite chair.

**Presets:** Choose between four presets - Movies, R&B/Rock, Jazz/Classical, or Games. By pushing a single button you can customize your listening for any performance or program material.

**Night Mode:** Limits the maximum output of the subwoofer for late night listening, or to be considerate of close neighbors.

**Volume Control:** Volume control allows you to balance the output from the subwoofer with your system.

**Light Control:** Turn the blue front panel lights on your VDR sub on or off with the light control.

**Phase Adjustment:** Lets you get the best possible match between your front system speakers and your subwoofer.

## High Dynamic Power (HDP) Amplifiers

VDR amplifiers deliver enormous output with huge power reserves. Velodyne's VDR subwoofers are able to reproduce the dramatic impact of special effects, pulsing drumbeats, and the ultra-low pedal notes of an organ.



## Engineered for Low-Distortion

One key to the VDR subwoofers' superior sound is specialized distortion limiting circuitry. These circuits produce real performance advantages, including: more usable power, deeper bass extension, bigger impact, and less distortion.

## Long-Throw Drivers

The two custom designed "Long-Throw" drivers with vented pole-pieces have increased power handling and long-term reliability. 4-Layer large copper-wound voice coils are matched with massive magnets to provide dynamic bass you can actually feel.

## Flexible Crossover with Crossover Bypass

Their flexible crossover systems allow each subwoofer to ideally match any speaker system and room acoustics. Velodyne's Crossover Bypass feature connects directly to the output of the Low Frequency Effect (LFE, or ".1") channel of a Dolby Digital receiver or processor, without the loss of impact or accuracy.

## Cabinet Design

Using a front-firing, slotted bass-reflex design, similar to those used to reproduce bass in live concerts, limits the distortion found in ported cabinets known as "port noise" and maximizes bass impact. Hidden away or proudly shown off, these subwoofers will complete your home theater with style.

## SPECIFICATIONS

Model	VDR-10	VDR-12
Amplifier	200 watts RMS	200 watts RMS
Class D	400 watts Dynamic Power	400 watts Dynamic Power
Woofers	10" (24.5 cm) forward firing (8.2" piston diameter) with vented pole piece	12" (30.5 cm) forward firing (9.9" piston diameter) with vented pole piece
Magnet Structure	2.5 lbs. (40 oz)	3.5 lbs. (56 oz)
Frequency Response	28-120 Hz +/- 3 dB	25-120 Hz +/- 3 dB
Voice Coil	2" 4-layer copper	2" 4-layer copper
Cone	Reinforced fiber	Reinforced fiber
High Pass Crossover	80-100 Hz (6 dB / octave)	80-100 Hz (6 dB / octave)
Low Pass Crossover	60 Hz-150 Hz (adjustable), (12 dB octave, 24 dB ultimate)	60 Hz-150 Hz (adjustable), (12 dB octave, 24 dB ultimate)
Cabinet Design	Slot-Loaded Bass-Reflex	Slot-Loaded Bass-Reflex
Outputs	Line-level and speaker-level	Line-level and speaker-level
Inputs	Gold plated line-level and speaker-level	Gold plated line-level and speaker-level
Phase	0°, 90°, 180°, 270°	0°, 90°, 180°, 270°
Auto On/Off	Yes	Yes
Crossover Bypass	Yes	Yes
Low Distortion Technology	Yes	Yes
Shipping Weight: (approx.)	54 lbs. (24.5 Kgs)	60 lbs. (27.3 Kgs)
Cabinet: (H/W/D) (inc. feet & grille) Black gloss trim with black vinyl body	15.9" x 15" x 16.8" 40.4 cm x 38 cm x 42.7 cm	18" x 15" x 18" 45.7 cm x 38 cm x 45.7 cm
Warranty	Three years (electronics - parts and labor) Five years (drivers - parts and labor)	Three years (electronics - parts and labor) Five years (drivers - parts and labor)



Copyright ©2009 Velodyne Acoustics, Inc. Specifications subject to change without notice. Other trademarks or registered trademarks are property of their respective owner. June 2009

VELODYNE ACOUSTICS, INC.

345 Digital Drive  
Morgan Hill, CA 95037  
408.465.2800

[www.velodyne.com](http://www.velodyne.com)

Velodyne