

Digital Drive *plus*

*Digital Drive Subwoofers —
The Reference Standard in
Bass Reproduction!*

**Perfection^{DD+}
Made Easy**



Digital Drive plus

Are You Searching for a Thrilling Home Theater and Music Experience?

Welcome to the amazing new Digital Drive^{PLUS} Series from Velodyne Acoustics, the acknowledged leader in low frequency reproduction. We hold more patents on subwoofer technology than any other manufacturer. The Digital Drive^{PLUS} Series subwoofers create a new standard for bass reproduction.

Music enthusiasts and movie buffs agree that powerful, low-distortion bass is crucial to the music and home theater experience. Whether your passion is Rock or Rachmaninoff, weak or boomy-sounding bass fails to satisfy. Since 1983, Velodyne has continually raised the bar for clean, high-impact bass. Anything less is unacceptable for those seeking the best in music and movie enjoyment.

The industry accolades that have been awarded to our Digital Drive subwoofers are simply amazing! Here are just a few examples of the high praise reaped by our previous efforts.

*"The best small subwoofer
in the world"*
— Australian HiFi

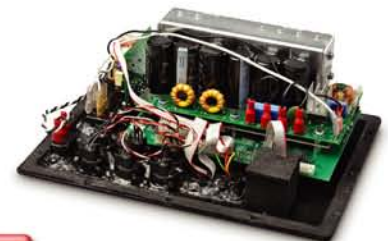
*"The DD-15 improves bass reproduction
as much as the jet engine
improved air travel"*
— Home Entertainment

"Product of the Year"
— Stereophile

Digital Drive^{PLUS} Subwoofers Create a New Industry Benchmark.

All of our technical and engineering expertise, as well as many patented technologies that have made Digital Drive so successful, are represented in the new DD+:

- The Digital High-gain Servo control, a patented technology which monitors and controls cone motion nearly 16,000 times per second, keeps distortion below an unheard-of .5%.
- The patented Energy Recovery System amplifier is over 95% efficient, dedicating nearly all of its power to bass reproduction. Virtually no energy is wasted as heat, adding to the subwoofer's long life.
- Velodyne was the first to introduce computer-chip DSP signal processing in subwoofers, the state of the art method for handling complex bass signals without introducing the distortion that analog devices can cause.



Digital Drive^{PLUS} builds on these ground-breaking technologies, taking realistic bass reproduction to a breathtaking new level. The aesthetic appeal of the gorgeous cabinet design assures an easy fit into your home. Acoustically, these subwoofers seamlessly blend with both your room and your system, as the Auto-EQ^{PLUS} system gives you all the bass, without the boom, at the touch of a button.

Outstanding Deep Bass Performance.

Stylish, Acoustically Inert Cabinet

The stunning output capability is complemented by a beautiful new cabinet design. The non-parallel walls, one-inch thick MDF wall construction, and heavily braced interior all contribute to the acoustically inert cabinet. Form follows function in reproducing deep bass cleanly, given the explosive capability of the driver and 1,250 watt RMS digital amplifier. The subwoofer driver moves; the gorgeous cabinet does not.



Motor Structure

The massive motor structure in the Digital Drive^{PLUS} Series is the most powerful that we have ever used. The extended-excursion motor and dual-spider design combine with the lightweight cone and sophisticated voice coil to produce amazing low-frequency energy. Huge pipe organ notes, synthesized bass beats, and thunderous movie soundtracks are reproduced with ease.

Driver Cone Technology

The Digital Drive^{PLUS} Series' sophisticated cone design features a fiberglass and Rohacell sandwich construction, for fast, accurate motion. This efficient design is incredibly responsive, and is easily driven by the powerful new motor structure.



Custom Voice Coil

A large, custom wound, six-layer copper voice coil reduces mechanical distortion, for maximum bass output while dissipating heat efficiently. This unusual design drives the cone in a linear fashion, producing deep bass with precision, and increasing the product's lifespan.



Seamless Integration with Auto-EQ^{PLUS}

Auto-EQ^{PLUS} is a revolutionary step forward in subwoofer technology. It has never been so easy to seamlessly blend your subwoofer's bass performance with your system and your room. Deep bass is produced with power and authority, without calling attention to the fact that a subwoofer is present.

The patent-pending Auto-EQ^{PLUS} system uses a CD with low-frequency sweep tones, along with a calibrated microphone, to establish a baseline of your system's bass performance. The software then reveals acoustic anomalies in your room. Auto-EQ^{PLUS} applies a suite of solutions – adjustments to volume, EQ, crossover point and phase - to compensate for unwanted subwoofer and room interaction, seamlessly blending with your system. The improvement to the system's bass performance can be amazing – all with one touch of a button, either on the subwoofer's front panel, or on the supplied remote control.

If you prefer, you can calibrate and fine-tune the subwoofer's response manually. The software and included microphone can display the frequency response, phase, crossover point and slope, and other calibration information either on a connected TV screen, or on your laptop computer screen. Eight fully parametric equalizers can be manipulated for smooth, even bass output. The Auto-EQ software makes fine-tuning the subwoofer's performance both easy and fun.

Hand-held Remote Control

Do you prefer to change the quantity and quality of the bass reproduction as you change your entertainment choices? Six listening mode presets enable you to change the bass to your liking. Movies, Games, Jazz or Classical Music, Rap or Rock...whatever level of bass sounds best to you, the choice is yours. The remote presets can easily be stored as macros in your entertainment system remote control device as well.



Auto-EQ

With One Touch

Of A Button...

Your System's

Bass Performance

Can Be Amazing!

SPECIFICATIONS

MODEL	DD-10+	DD-12+	DD-15+	DD-18+
Driver	10" forward firing	12" forward firing	15" forward firing	18" forward firing
Amplifier Class D	3000 watts Dynamic 1250 watts RMS Power	3000 watts Dynamic 1250 watts RMS Power	3000 watts Dynamic 1250 watts RMS Power	3000 watts Dynamic 1250 watts RMS Power
Frequency Response (+/- 3 dB)	16.3 - 120 Hz	15.5 - 120 Hz	14.2 - 120 Hz	13.7 - 120 Hz
THD	<1% (typical)	<1% (typical)	<1% (typical)	<1% (typical)
High Pass Crossover	80 or 100 Hz at 6 dB/octave	80 or 100 Hz at 6 dB/octave	80 or 100 Hz at 6 dB/octave	80 or 100 Hz at 6 dB/octave
Low Pass Crossover	40 Hz to 199 Hz (variable in 1 Hz increments) selectable slope Default: 15 Hz @ 24 dB/Octave	40 Hz to 199 Hz (variable in 1 Hz increments) selectable slope Default: 15 Hz @ 24 dB/Octave	40 Hz to 199 Hz (variable in 1 Hz increments) selectable slope Default: 15 Hz @ 24 dB/Octave	40 Hz to 199 Hz (variable in 1 Hz increments) selectable slope Default: 15 Hz @ 24 dB/Octave
Phase	0 to 180 degrees (variable in 15 degree increments)	0 to 180 degrees (variable in 15 degree increments)	0 to 180 degrees (variable in 15 degree increments)	0 to 180 degrees (variable in 15 degree increments)
Polarity	Adjustable (+/-)	Adjustable (+/-)	Adjustable (+/-)	Adjustable (+/-)
Magnet Structure	35 lbs.	35 lbs.	39.7 lbs.	39.7 lbs.
Voice Coil	Six-layer, 65mm	Six-layer, 65mm	Six-layer, 75mm	Six-layer, 75mm
Cone	Fiberglass Rohacell Laminate	Fiberglass Rohacell Laminate	Fiberglass Rohacell Laminate	Fiberglass Rohacell Laminate
INPUTS				
LFE (Mono)	Line level (RCA), Nominal Impedance 47K, Balanced (XLR), Nominal Impedance 10K	Line level (RCA), Nominal Impedance 47K, Balanced (XLR), Nominal Impedance 10K	Line level (RCA), Nominal Impedance 47K, Balanced (XLR), Nominal Impedance 10K	Line level (RCA), Nominal Impedance 47K, Balanced (XLR), Nominal Impedance 10K
Input (L&R)	Line level (RCA & XLR)	Line level (RCA & XLR)	Line level (RCA & XLR)	Line level (RCA & XLR)
Microphone	Balanced (XLR, cable included)	Balanced (XLR, cable included)	Balanced (XLR, cable included)	Balanced (XLR, cable included)
Speaker Level (L&R)	Bare wire, banana plugs, or spade lugs	Bare wire, banana plugs, or spade lugs	Bare wire, banana plugs, or spade lugs	Bare wire, banana plugs, or spade lugs
OUTPUTS				
Thru (L&R)	Line level (RCA & XLR)	Line level (RCA & XLR)	Line level (RCA & XLR)	Line level (RCA & XLR)
Output (L&R)	Line level (RCA & XLR)	Line level (RCA & XLR)	Line level (RCA & XLR)	Line level (RCA & XLR)
Included Accessories	Full feature remote control, DD+ accessory kit and video cable	Full feature remote control, DD+ accessory kit and video cable	Full feature remote control, DD+ accessory kit and video cable	Full feature remote control, DD+ accessory kit and video cable
Finishes	Black gloss ebony, satin cherry or walnut	Black gloss ebony, satin cherry or walnut	Black gloss ebony, satin cherry or walnut	Black gloss ebony, satin cherry or walnut
Dimensions (H/W/D) (includes feet and connectors)	14.2" x 13" x 16.5"	15.8" x 14.4" x 18"	20" x 18.1" x 22.5"	22.7" x 20.7" x 25.6"
Shipping Weight (approx)	75 lbs.	85 lbs.	120 lbs.	142 lbs.
Warranty (parts/labor)	Three years (electronics) Five years (drivers)	Three years (electronics) Five years (drivers)	Three years (electronics) Five years (drivers)	Three years (electronics) Five years (drivers)



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