

Loudness = Decibels (db) not Watts.

- The human ear perceives 10 db = double volume
Example: 90db sounds twice as loud as 80db
- Sound system should be at least 10db louder than competing sound

DECIBEL TABLE

137.6 decibels - World Record - CenturyLink Field - Seattle Seahawks (12/2/13)

127 decibels - VOICE MACHINE

126 decibels - SOUND MACHINE

110 decibels - High School Marching Band (150+ Members)

90 decibels - Osterizer Blender

80 decibels - Stereo/TV Listening Environment

70 decibels - Typical Conversation

Sound Projections



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Full Line Catalog

SIX YEAR LIMITED WARRANTY

Sound Projections brand products purchased after July 1, 2006 are warranted to be free of defects in materials and workmanship for a period of 6 years from the date of original purchase, subject to the following conditions:

- This warranty excludes defects caused by normal wear, abuse, shipping damage, or failure to use product in accordance with instructions. All warranty service must be performed or authorized by Sound Projections. Any service or modifications performed without authorization from Sound Projections may void this warranty.
- The product must have been purchased through an authorized Sound Projections Dealer.
- The Ni-Mh rechargeable battery in SM-4neo models is warranted for a period of 3 years.
- LFP rechargeable battery in SM-5 and VM-2 models are warranted for a period of 3 years.
- The sealed lead acid battery in FR-3neo and VM-1 models is warranted for a period of 2 years.
- Wireless microphone, CD/MP3 player, and USB MP3 player options are warranted for a period of 2 years.
- All accessories are warranted for a period of 2 years.
- Prior to returning your unit for repair and/or warranty service, please contact our customer service department at the address below for a return authorization (RA) number.
- For warranty repair – items must be returned to Sound Projections.

WARRANTY ON REPAIRS PERFORMED BY SOUND PROJECTIONS

- CD/MP3 and USB players, wireless components, and lead acid battery are warranted for a period of 6 months.
- Internal electronics, input jacks, and speakers are warranted for a period of 1 year.
- NiMh and LFP batteries are warranted for a period of 2 years.



Visit Us At:
www.soundprojections.com



The World's Most Advanced Portable Sound Systems



Made in the USA

Sound Projections Testimonials / User List

I am a better teacher because of my sound projections system! It has not only saved my voice but at the end of every teaching day I still have energy and passion for my job. I cannot imagine teaching without it. In fact since purchasing my system I have used it every day for over 7 years. I know that if I ever have a problem that I can get it fixed in record time. Though at present I have not had any issues with my system.

~ Tina DeLarosa, Physical Education Specialist

The Sound Machine has been a solid investment for us. We have been using the Sound Machine for the past three seasons now and find it to be a powerful tool that enhances our rehearsal productivity. The Sound Machine is clear, powerful, and includes a full spectrum of highs, middles, and lows. The ability to change transmitter frequencies as needed ensures that we can always use the Sound Machine without outside frequency interference, regardless of where we are traveling.

~ Brian Britt, School of Music
The University of Oklahoma

I did an event where there were winds of 40-50 MPH. My main unit was blown over. From the top of the tripod to the ground...KABOOM! Proud to say SP took a licking and kept on ticking.

~ Eric Tracy, Mulligan Man

I have been auctioneering for over 17 years and have used many different systems. The Sound Machine is by far the most superior system of them all. Nothing is as good or as solid.

~ Andy Raber, Auctioneer

Bryan Knox NAA International Champion
Allen High School Marching Band
Penn State University
University of Arkansas Marching Band
University of North Carolina
Arco Sports Arena
Radio Disney
The Miami Heat Dancers
Midway Island land conservancy

Bryan and I set up the Sound Machine with companion speaker in a middle school gymnasium this morning that was full of students. It was amazing – sound quality and volume was great – more than adequate. You should have seen the look on the principal and assistant principal's faces. They asked, "Is all of that sound coming from just those two speakers?" I said, "absolutely."

~ Tom D., Educational Technology Solutions

From top-of-the-line sound equipment to customer service that is unmatched, Sound Projections is the go-to resource for the PA needs of the University of Kentucky Wildcat Marching Band. Their staff was able to help us design a field PA system that was geared to our exact needs, was flexible enough to use in a wide variety of environments, and when we had questions, they were there to guide us every step of the way. For professional, expert service for all your PA system needs, look no further than Sound Projections.

~ Carl Collins, Director
University of Kentucky Wildcat Marching Band

I have used the Sound Machine system for my saxophone and music playback, in small rooms and outdoor venues, over the last 12 years. This system is the best of all the portable sound systems out there.

~ Vaughan Carter, Musician
Dallas, TX

The island of Midway tested all types of battery powered PA systems over a 4 month period. They chose the Sound Machine because of the high quality workmanship. They knew it was going to last for a long time.

~ Rick, Hawaii

USS Ronald Reagan Aircraft Carrier
NORAD
Norfolk Naval Shipyard
Peterson AFB
Saddleback Church
Youth With A Mission
Atlantas Resort - Bahamas
Aulani - Disney Resort and Spa

Compare the Systems



Sound Machine

Portable Sound System with Shure Wireless

200 watts total power – 126 dB output

For crowds up to 4,000

SHURE 123 channel UHF wireless
External Antenna 300' operating range
(line of sight)

Built-in CD/MP3 player option

Lithium iron phosphate (LFP) battery
– up to 2,000 charge/discharge cycles
– half the weight of lead acid

Battery and AC operation

6 year system, 3 year battery warranty

Voice Machine

Portable PA System with Shure Wireless

50 watts total power – 127 dB output

For crowds up to 4,000

SHURE 123 channel UHF wireless
External Antenna 300' operating range
(line of sight)

Lithium iron phosphate (LFP) battery
– up to 2,000 charge/discharge cycles
– half the weight of lead acid

Battery and AC operation

6 year system, 3 year battery warranty



Sound Machine

Portable Sound System with Shure Wireless

More Sound, Less Weight!

- Weighing only 32 pounds (35 with options), the SM-5 delivers 200 Watts, 127db SPL and 4-8 hours of operating time.
- Optional CD/MP3 player with USB port, and up to two **SHURE** auto-scan wireless microphones.
- Lithium Iron Phosphate (LFP) battery. Up to 2000 charge-recharge cycles.
- "Talkover" feature automatically lowers program material when speaking on a microphone – ideal for short announcements and multi-media presentations.
- Operates on the internal battery, or plug it in for continuous use.
- Best warranty in the industry: 6 year warranty on our system, 3 years on the LFP battery.

optional **SHURE** single or dual wireless mic systems – 123 channels with auto scan

optional CD/MP3 player with port for USB memory key

inside there's a 10" woofer and 1" exit titanium compression driver

"Talkover" automatically lowers program material when speaking on microphone (may be turned on or off)

multiple microphone and music inputs

metal stand mount fits 1.5" speaker stands

dual amp design; digital for low end, analog for highs

output for SM-5C companion speaker

SM-5 Specifications

Rated Power Output:	200 Watts
Max SPL:	127 dB "loud" mode 120 dB "normal" mode
Freq. Response:	65 Hz - 16 kHz
Wireless System:	Shure 123-channel, diversity with auto-scan
Battery Life:	4-8 hours typical
Power Requirements:	110-240 VAC, 200 W max.
Dimensions (HWD):	23 x 15 x 13"
Weight:	32 lbs. (SM-5 only) 35 lbs. (SM-5, CD, 1 receiver) 24 lbs. (SM-5C)
Inputs:	(2) mic level, balanced, XLR (1) line level, balanced, XLR (1) line level, 1/4" phone (1) MP3/CD level, dual RCA
Outputs:	(1) line level, balanced, XLR (1) line level, 1/4" phone (1) tape level, dual RCA (1) speaker output

Specifications and models subject to change without notice

rugged, one-piece, molded enclosure
three band EQ and VoicePower switch optimize sound for indoor or outdoor use



balanced XLR, 1/4" phone, and RCA line outputs
operates on built-in Lithium Iron Phosphate (LFP) battery or AC power
universal 110-240 VAC power input

Voice Machine

Portable PA System with Shure Wireless

It's Small, and LOUD!

- Clear, powerful sound with 127 dB SPL of voice projection.
- Lightweight – basic system weighs only 15 pounds.
- Options include up to two **SHURE** UHF 123-channel wireless microphones.
- Operates anywhere for a full day on the built-in Lithium Iron Phosphate (LFP) battery, or plug it in for continuous use.
- Two speaker outputs drive VM-2C companion speakers to fill larger areas with even coverage.
- Built-in, universal AC power supply/charger (no clumsy 'wall wart' to lose).
- 6 year system warranty, 3 years on the battery.

optional single or dual **SHURE** wireless mic systems – 123 channels frequency agile

"siren" feature gets everyone's attention

reentrant horn combined with powerful 50-watt amplifier – it's loud!

balanced mic input

operates on built-in battery or AC power

metal stand mount fits 1.5" speaker stands

line input for playback device

line output for daisy-chaining

Rated Power Output:	50 Watts continuous
Max SPL:	127 dB
Freq. Response:	350 Hz - 10 kHz
Wireless System: (with Auto-Scan)	123-channel UHF diversity
Battery Life:	8-14 hours typical
Battery Type:	Lithium Iron Phosphate (LFP)
Power Requirements:	110-230 VAC, 75 W max.
Dimensions (HWD):	15.35 x 11 x 12"
Weight:	15 lbs.
Inputs:	(1) mic level, balanced, XLR (1) line level, 1/4" phone, Hi-Z
Outputs:	(1) line level, 1/4" phone (2) VM-2C speaker outputs

Specifications and models subject to change without notice

rugged one-piece, molded enclosure

battery status and charging status LED indicators

two outputs for VM-2C companion speakers for greater coverage

universal 110-230 VAC internal power supply



"Sound Machine – SM5...
The reference by which all others are measured."





Wireless Headset/Lapel Microphones

- A. MIC-HB2a Headset microphone for SM/VM
- B. MIC-HB4 Headset microphone for FR
- C. MIC-EM1BG Earset microphone for SM/FR/VM
- D. MIC-L4 Lapel microphone for SM/FR



Unpowered Companion Speakers

- E. SM-5C Companion speaker for Sound Machine and Freedom
- F. VM-2C Companion speaker for Voice Machine

Speaker Stands

- G. SS-1 Premium TeleLock speaker stand
- H. SS-3 Heavy-duty speaker stand
- I. TB-1 Tote bag for speaker stand
- SS-2: Includes SS-3 & TB-1

Other Accessories

- J. MIC-HH1 Hardwired mic with 30' cable (on/off switch)
- K. IC-S Instrument cable for Shure beltpack
- L. SC50-2W 50' 2-wire speaker cable (VM)
- M. SC50-4W 50' 4-wire speaker cable (SM/FR)
- SC100-4W 100' 4-wire speaker cable (SM/FR) (also available)
- N. CBL-SMPH iPod/MP3 cable for VM
- O. CBL-SMRCA iPod/MP3 cable for SM/FR
- P. PSC-VM Slip cover for Voice Machine
- Q. PSC-SM Slip cover for Sound Machine and Freedom
- R. Sport-1 Transport system for SM/FR (Sport Cover also available separately)

The Difference is Clear

Built-in Wireless Microphones:

Both the Sound Machine SM-5 and Voice Machine VM-2+ includes the Shure BLX wireless system with external antennas. The external antennas of both the SM-5 and VM-2+ allows double the wireless transmission distance from the system over wireless units with internal antennas. The Shure BLX wireless includes autoscan of 123 independent wireless frequencies covering 5 continuous UHF stations. The multiple frequency groups allow us to choose the best group for the specific area the unit will be used in to protect against interference from HDTV stations.

Lithium Iron Phosphate (LFP) batteries vs. Sealed Lead Acid (SLA):

Weight: The LFP battery is approx. 4 pounds lighter than SLA battery.
Uses: The LFP battery is good for over 2,00 charging cycles vs SLA battery of 200 charging cycles or 10 times the number of charges.
Longevity: The LFP battery will not deteriorate if the system is stored on the shelf for a few months without being charged, the SLA battery will die if stored too long.
Warranty: The LFP battery comes with a 3 year warranty...the best in the business.

Clarity:

Clarity is also a major factor when using our system in a large venue for an auctioneer or on a field for a marching band. Our voice/loud switch will add 6db to the horn to give the clarity needed for the drummers at the back of the field to understand the director, no other company includes this feature.

American Made:

All of our internal electrics and roto-molded cases are manufactured in Southern California, the driver and 10" speaker in the SM-5 are from Eminence, the driver in the VM-2+ is from Electro-Voice, and Shure supplies all of our wireless components. This allows us to confidently give a 6-year warranty on the system (2 years on the wireless) and we will also repair the unit once it's out of warranty. If there is ever a problem, customers can easily contact us and we are usually able to fix the problem right over the phone.