



The Shure SM57 unidirectional dynamic microphone is exceptional for musical instrument pickup or for vocals. With its bright, clean sound and carefully contoured presence rise, the SM57 is ideal for live sound reinforcement and recording. It has an extremely effective cardioid pickup pattern which isolates the main sound source while minimizing background noise. In the studio, it is excellent for recording drums, guitar, and woodwinds. For musical instruments or vocals, the SM57 is a consistent choice of professional performers.

- Frequency response tailored for drums, guitars, and vocals
- Uniform cardioid pickup pattern isolates the main sound source while reducing background noise
- Pneumatic shock-mount system cuts down handling noise
- Extremely durable under the heaviest use
- Supplied break-resistant swivel adapter that rotates 180°
- Legendary Shure quality, ruggedness, and reliability

Place the stage monitor directly behind the microphone (see Figure 1). Locate the P.A. loudspeakers so that they point away from the rear of the microphone. With the speakers located in these positions, the possibility of feedback is greatly reduced. Always check the stage setup before a performance to ensure optimum placement.



RECOMMENDED LOUDSPEAKER PLACEMENT

Some of the most common applications and placement techniques for the SM57 are listed in the following table. Remember that microphone technique is largely a matter of personal taste—there is no single “correct” microphone position.

	One SM57 on each tom, positioned each pair of toms, 25 mm (1 in.) to 75 mm (3 in.) above the heads. Aim each mic at the top heads.	Medium attack, balanced sound.
	On double head toms, remove the bottom head and place a mic inside aimed at the head.	Medium attack, balanced sound.
	25 mm (1 in.) to 75 mm (3 in.) above the rim of the top head of the drum. Aim the mic at the head.	Most “snap” from drumstick impact
	If desired, place a second mic just below the rim of the bottom head.	More “snare” sound.
	25 mm (1 in.) from the speaker, on-axis with the speaker cone.	Most attack, emphasized bass.
	150 mm (6 in.) to 300 mm (12 in.) away from speaker and on-axis with speaker cone.	Medium attack, full, balanced sound
	.5 m (18 in.) to 1 m (3 ft) back from the speaker, on-axis with the speaker cone.	Softer attack, thin, reduced bass sound.
	On-axis with the edge of the speaker cone.	Thinner, reduced bass sound.
	Brass: 3 m (1 ft) to 1 m (3 ft) away, on-axis with bell of instrument.	Bright, clear sound.
	Woodwinds: 25 mm (1 in.) to 150 mm (6 in.) away, on-axis with bell of instrument.	Bright, clear sound.
	Bell of the instrument 90° off-axis from the front of the mic.	Softer, mellow sound.
	25 mm (1 in.) to 150 mm (6 in.) from the vocalist's mouth.	Rich, warm sound.

When the sound source is less than 6 mm (1/4 in.) from the microphone, the microphone boosts bass frequencies (by 6 to 10 dB at 100 Hz), creating a warmer and richer bass sound than when farther away. This effect, known as proximity effect, happens in unidirectional microphones like the SM57. The SM57 low-frequency roll-off provides greater control, allowing the user to take full advantage of proximity effect.

1. Aim the microphone toward the desired sound source and away from unwanted sources.
2. Locate the microphone as close as practical to the desired sound source.
3. Work close to the microphone for extra bass response.
4. Use only one microphone per sound source.
5. Locate multiple microphones at least three times as far from other microphones as from the sound source.
6. Use as few microphones as practical.
7. Place microphones away from sound reflecting surfaces.
8. Add a windscreen when using the microphone outdoors, for closeup speech, or vocals.
9. Avoid excessive handling to minimize mechanical noise.

Shure Sm57 User Manual

Tim Hallas



Shure Sm57 User Manual:

Handbook for Sound Engineers Glen Ballou, 2013-05-02 Handbook for Sound Engineers is the most comprehensive reference available for audio engineers All audio topics are explored if you work on anything related to audio you should not be without this book The 4th edition of this trusted reference has been updated to reflect changes in the industry since the publication of the 3rd edition in 2002 including new technologies like software based recording systems such as Pro Tools and Sound Forge digital recording using MP3 wave files and others mobile audio devices such as iPods and MP3 players Over 40 topics are covered and written by many of the top professionals for their area in the field including Glen Ballou on interpretation systems intercoms assistive listening and image projection Ken Pohlmann on compact discs and DVDs David Miles Huber on MIDI Dr Eugene Patronis on amplifier design and outdoor sound systems Bill Whitlock on audio transformers and preamplifiers Pat Brown on fundamentals and gain structures Ray Rayburn on virtual systems and digital interfacing and Dr Wolfgang Ahnert on computer aided sound system design and acoustics for concert halls

The Recording Engineer's Handbook Bobby Owsinski, 2005 Working as a recording engineer presents challenges from every direction of your project From using microphones to deciding on EQ settings choosing outboard gear to understanding how when and why to process your signal the seemingly never ending choices can be very confusing Professional Audio s bestselling author Bobby Owsinski The Mixing Engineer s Handbook The Mastering Engineer s Handbook takes you into the tracking process for all manner of instruments and vocals providing you with the knowledge and skill to make sense of the many choices you have in any given project From acoustic to electronic instruments mic placement to EQ settings everything you need to know to capture professionally recorded audio tracks is in this guide

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The Drummer's Studio Survival Guide Mark H. Parsons, 1996 The Drummer s Studio Survival Guide is an updated and expanded version of author Mark Parson s informative 13 part In the Studio series from Modern Drummer magazine Topics include preparing one s drums for recording drum miking the use of outboard equipment interacting with producers and engineers and other information vital to any drummer entering the studio whether for the first time or as a veteran

The Ultimate Live Sound Operator's Handbook Bill Gibson, 2020-10-01 The third edition of The Ultimate Live Sound Operator s Handbook offers new sections on digital concepts wireless considerations digital mixers modern digital snakes routing schemes block diagrams signal paths plug ins for live sound and more Any live act must sound great to be well received by today s increasingly demanding audiences If you re a sound operator teacher musician or even a music fan who is interested in becoming a sound operator you know that regardless of the musical genre or venue high quality audio is mandatory for an artist or band s success This book shows you how to improve your audio skills

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Boss Br-1180 Quick Guide ,2002-02-01 Book The BOSS BR 1180 Quick Guide is the fast way to get happening on BOSS s most powerful new digital recorder Within a short time you ll be recording instruments and vocals with one and two mic setups Organized in a step by step procedural manner this book is written simply in plain language as if you ve never recorded before Topics covered include cables and connections mic setup positions including stereo recording signal flow audio editing basics punch in punch out effects and much more all the way through bouncing down your final mix This book was made in cooperation with BOSS tech support staff and authored by Caroline J Alexander Caroline J Alexander holds a Masters Degree in Music Design for the Moving Image from Bournemouth University in England Gifted in composing mixing illustrating and writing Caroline has mastered the craft of simplifying the most complex in music technology and making it easy to understand and use The author of many instrument and software specific books she co authored the bestselling How to Do a Demo Quality Recording in Your Bedroom 2nd Ed and edited How MIDI Works 6th Ed illustrating both As a composer she s scored for short films animation game rides and web sites

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The Complete Guide to Game Audio Aaron Marks, 2012-10-12 Turn your musical passion into a profitable career with this essential guide to the business and technical skills you need to succeed in the multi billion dollar games industry Step by step instructions lead you through the entire music and sound effects process from developing the essential skills and purchasing the right equipment to keeping your clients happy Learn everything you need to Find the jobs Identify your niche implement a business and marketing plan that includes a great demo reel and plug into the established network to find clients Make the deals Make the bidding and contract process work for you by knowing the standard industry terminology understanding how to set fees and employing non confrontational negotiating tactics to reach sound agreements that establish acceptable boundaries for change orders reworks payment options and other essentials Create music and sound effects for games Master the exacting specifications for composing music and creating sound effects on the various gaming platforms and systems The companion DVD features audio and cinematic examples demos of useful sound editing and sequencing programs and sample business contracts

The Guitar Amp Handbook Dave Hunter, 2023-09-14 The Guitar Amp Handbook Understanding Tube Amplifiers and Getting Great Sounds Updated Edition brings fresh information to the table to help guitarists understand everything about what makes their amps tick and how to use them to sound better than ever It builds on the popular original edition of the book first published in 2005 Central to the book s success is the way it walks musicians through the significance of each crucial circuit stage and component of a great number of classic and modern tube amp designs helping guitarists get the most from the amps they already own or choose new amps that are best suited to their needs The Guitar Amp Handbook reveals many of the tips and tricks used by today s top designers and builders and it debunks the hype used by the marketing departments at large manufacturers keen on selling specific amps that might not be right for particular players The book is designed to help guitarists understand what really goes on inside tube amps and where the tone comes from This new updated and expanded edition adds further knowledge to the foundation ensuring it

continues as the most thorough and authoritative publication on the subject to be found anywhere *Keyboard* ,2008

Student's Guide to Music Tech. As, A2/Edex Rhinegold Publishing Limited,2005-09 **AV Guide** ,1983 *The Insider's Guide to Home Recording* Brian Tarquin,2015-02-03 The last decade has seen an explosion in the number of home recording studios With the mass availability of sophisticated technology there has never been a better time to do it yourself and make a profit Take a studio journey with Brian Tarquin the multiple Emmy award winning recording artist and producer as he leads you through the complete recording process and shows you how to perfect your sound using home equipment He guides you through the steps to increase your creative freedom and offers numerous tips to improve the effectiveness of your workflow Topics covered in this book include the following Studio location set up and alteration Equipment microphones plug ins amps mixers Recording software Mixing techniques Roles and responsibilities of artists producers engineers Getting the best performance from hired musicians And much more Experienced and novice musicians alike will learn a multitude of tips tricks and techniques to control the studio environment and create excellent sounds Novices or those just starting to record on home equipment for the first time will learn everything from setting up a studio properly to operating the mixers and processors to improving the acoustics of your work environment This guide will help every musician producer or engineer to build a successful home recording business Allworth Press an imprint of Skyhorse Publishing publishes a broad range of books on the visual and performing arts with emphasis on the business of art Our titles cover subjects such as graphic design theater branding fine art photography interior design writing acting film how to start careers business and legal forms business practices and more While we don't aspire to publish a New York Times bestseller or a national bestseller we are deeply committed to quality books that help creative professionals succeed and thrive We often publish in areas overlooked by other publishers and welcome the author whose expertise can help our audience of readers **TCmedia Guide Project** Kevin Lai, Grace Chan, Jane Lai, Ernest Lai, Isabel Lee, Phil Pang, Amy Wong, **Electronic Musician** ,1999 Recording and Producing in the Home Studio David Franz,2004 Berklee Methods With the explosion of project studio gear available it's easier than ever to create pro quality music at home This book is the only reference you'll ever need to start producing and engineering your music or other artists' music in your very own home studio You don't have a home studio yet but have some basic equipment This essential guide will help you set up your studio begin producing projects develop your engineering skills and manage your projects Stop dreaming and start producing

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