



### GENERAL

The Model 55SH Series II provides the Shure classic UNIDYNE II design coupled with modern acoustic components to meet today's performance standards. This microphone is excellent for vocal pickup with its characteristic Shure presence peak.

The 55SH Series II has a cardioid (unidirectional) polar pickup pattern that minimizes sound pickup from the rear of the microphone. This allows the Model 55SH Series II to be used in close proximity to loudspeakers without creating feedback problems, and it can perform under adverse acoustic conditions where omnidirectional microphones cannot.

The 55SH Series II has a low-impedance balanced output designed for connection to microphone inputs rated at 75 to 300 ohms. The microphone features a cartridge shock mount to reduce stand noise, an On/Off switch, and an attached, self-tensioning,  $\frac{1}{8}$ "-27 thread swivel mount.

This microphone is ideal for public address or theater-stage sound systems, as well as for broadcasting, recording, and other sound applications where a stand-mounted microphone with a classic look is desirable.

### Features

- Classic appearance, modern performance
- Frequency response tailored for speech, vocals and instrumental music
- Cardioid directional pattern for optimum performance in adverse acoustic environments
- Shock-mounted cartridge minimizes stand-transmitted noise, ensures quiet operation
- Rugged die cast case and mechanical design for reliability under rigorous conditions
- Self-tensioning swivel mount, permits tilting through 45° forward and 80° backward

### SPECIFICATIONS

#### Type

Dynamic

#### Frequency Response

50 to 15,000 Hz (See Figure 1)

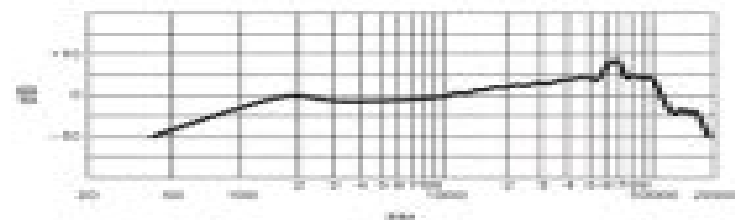


FIGURE 1  
TYPICAL FREQUENCY RESPONSE

#### Polar Pattern

Cardioid (unidirectional), uniform with frequency, symmetrical about axis (see Figure 2)

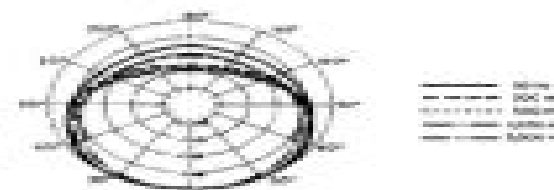


FIGURE 2  
TYPICAL POLAR PATTERNS

# Shure Sm5user Guide

**Edwards Weber**



## Shure Sm5user Guide:

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console effortlessly while taking full advantage of its features

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### Table of Contents **Shure Sm5user Guide**

1. Understanding the eBook **Shure Sm5user Guide**
  - The Rise of Digital Reading **Shure Sm5user Guide**
  - Advantages of eBooks Over Traditional Books
2. Identifying **Shure Sm5user Guide**
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an **Shure Sm5user Guide**
  - User-Friendly Interface
4. Exploring eBook Recommendations from **Shure Sm5user Guide**
  - Personalized Recommendations
  - **Shure Sm5user Guide** User Reviews and Ratings
  - **Shure Sm5user Guide** and Bestseller Lists

5. Accessing Shure Sm5user Guide Free and Paid eBooks
  - Shure Sm5user Guide Public Domain eBooks
  - Shure Sm5user Guide eBook Subscription Services
  - Shure Sm5user Guide Budget-Friendly Options
6. Navigating Shure Sm5user Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Shure Sm5user Guide Compatibility with Devices
  - Shure Sm5user Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Shure Sm5user Guide
  - Highlighting and Note-Taking Shure Sm5user Guide
  - Interactive Elements Shure Sm5user Guide
8. Staying Engaged with Shure Sm5user Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Shure Sm5user Guide
9. Balancing eBooks and Physical Books Shure Sm5user Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Shure Sm5user Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Shure Sm5user Guide
  - Setting Reading Goals Shure Sm5user Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Shure Sm5user Guide
  - Fact-Checking eBook Content of Shure Sm5user Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web the 3 d geometry of concentric rotating cylinder system where the inner cylinder is rotating and outer cylinder is stationary was developed by using the comsol computational fluid dynamics cfd module for determination of the velocity and pressure profiles a typical meshed geometry is shown in figure 2 the model parameters are

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web a fluid dynamics analysis of the velocity and pressure fields that occur in the annular gap between two concentric cylinders with a stationary outer cylinder and a rotating inner cylinder is presented

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web when end effects are neglected an analytical solution to the equation of motion can be obtained for the fluid velocity and pressure profiles parameters that are varied include the radii of the inner and outer cylinders rotational speed of the inner cylinder and kinematic viscosity of the fluid