

# Sabine True Mobility™ Wireless Systems

**Get total freedom of movement without feedback, plus increased gain & clarity!**



Sabine is proud to present the first wireless microphone system with customized, built-in processing on every microphone: **Sabine True Mobility™ Wireless Systems.**

Sabine Wireless Systems are superior to conventional systems because Sabine's include the most comprehensive features found in any wireless system: **True Mobility, Targeted Input Processing, and Sabine's new feedback-resistant microphone capsules.**

## True Mobility™

We call our system True Mobility because it provides the freedom you should expect from a wireless system. With a conventional wireless system, your range of movement is limited by the potential for feedback in acoustical "hot spots". Some areas are so feedback prone you cannot go near them. Other areas allow only minimal gain before feedback occurs.

Sabine's True Mobility System includes our patented, industry-standard **FBX Feedback Exterminator**. The FBX automatically kills feedback in setup *and* during the show, giving you a greatly increased area of feedback-free movement. Your mics will sound loud and clear, and you'll

get the mobility you were hoping for when you chose a wireless system. And Sabine's superior sounding, **feedback-resistant mic capsules** provide more gain and maximum clarity.

## Targeted Input Processing

Sabine's True Mobility doesn't stop with automatic feedback control. Conventional wireless systems require the added cost of outboard processors to maximize performance.

Sabine offers a different approach: on-board processing at *no e*, all dedicated to one microphone. We call this Targeted Input Processing – no mic gets more processing than it needs, and every mic gets precise, targeted control perfectly suited to provide maximum performance.

Each True Mobility Receiver includes the all-digital Targeted Input Processing you need for maximum performance, yet Sabine's system costs no more than other far less powerful UHF or VHF systems.

## All Digital Targeted Input Processing:



■ **Patented FBX Feedback Exterminator®:** The industry standard in automatic feedback control. This special FBX section includes our fast Turbo Setup Mode, 10 FBX filters, and easy-to-use controls.

■ **Auto De-Esser:** Sabine's new automatic de-essing algorithm senses, tracks, and removes sibilance without affecting the rest of your program.

■ **Compressor:** Our famous digital compressor offers the gain management you need to compensate for all types of performers and speakers, from those who are shy around microphones, to the boldest worship leader. Adjust ratio, threshold, attack, and gain.

## True Mobility systems give you what no other wireless offers:

- Increased mobility with no feedback
- Increased gain and clarity
- Increased intelligibility without sibilance
- Virtually unlimited battery life
- An adaptive system that compensates for all kinds of performers and conditions – from concerts and theaters to board rooms & churches.
- All for no more money than you are currently spending for high-quality wireless systems.



**Built-In Dual NiMH Battery Charger!**  
The only wireless system that pays for itself!  
Stop throwing away batteries – now you'll always have fresh, long-lasting NiMH batteries ready for your microphone or transmitter.

"A superior wireless mic with built-in digital signal processing – this solves every wireless mic problem I've ever had!"



SW-16R: 16-Ch VHF True Diversity Receiver with Battery Charger



SW-30R: 30-Ch UHF True Diversity Receiver with Battery Charger

TRUE MOBILITY™  
WIRELESS  
MICROPHONE  
SYSTEMS

SWM-3000 30-Channel

UHF System

SWM-1600 16-Channel

VHF System

**SABINE**®  
ADAPTIVE AUDIO

## True Mobility Wireless Systems

- UHF: 30 channels
- VHF: 16 channels
- PLL synthesized
- True diversity
- Dual-squelch circuitry
- 100 Meter range
- Up to 14 Simultaneous channels (UHF)



Headset, Lavalier, and Handheld Feedback-resistant Microphones



VHF and UHF beltpack Transmitters



Optional rear to front antenna mount

## System Configurations

### SWM-3000 UHF Systems

SW-30R	30-Ch Receiver with Battery Charger / NiMH rechargeable battery
SW-30H	Condenser PLL Hand Held Microphone
SW-30T	PLL Belt Pack Transmitter

### SWM-1600 VHF System

SW-16R	16-Ch Receiver with Battery Charger / NiMH rechargeable battery
SW-16H	Condenser PLL Hand Held Microphone
SW-16T	PLL Belt Pack Transmitter

### Microphones

SWT-42L	Unidirectional Condenser Lavalier Microphone
SWT-25H	Unidirectional Condenser Headset Microphone
SWT-30G	Guitar Interface (Plug and Cable)

### Batteries

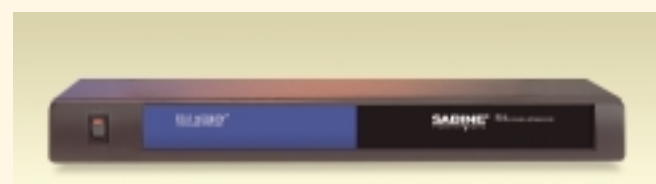
SWB-BAT	Rechargeable 9-volt NiMH Battery
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### Antennas

SWA-100	Rear to Front Antenna Converter Kit
SWA-4V	VHF 4-Channel Antenna Divider System
SWA-VEXT	VHF Extension Antenna
SWA-4U	UHF4-Channel Antenna Divider System
SWA-UEXT	UHF Extension Antenna
SWA-UB	UHF Extension Antenna Booster
SWA-EXTM	Extension Antenna Mounting Bracket

### Mic & Transmitter Accessories

SWC-200	Condenser Microphone Capsule Module
SWC-CLIP	SW-series Handheld Microphone Holder
SWC-TRI	Desktop microphone tripod
SWC-4P	4-pin Connector
SWC-B1	Assorted Colored Bands for Handheld Mic
SWC-SCR1	Wind Screens



UHF and VHF Antenna divider networks, each accomodates four receivers

MULTI-CHANNEL

WIRELESS

MICROPHONE

SYSTEM WITH

BUILT-IN SIGNAL

PROCESSING

FBX FEEDBACK EXTERMINATOR®

COMPRESSOR

DE-ESSER

## TRUE MOBILITY WIRELESS MICROPHONE ENGINEERING SPECIFICATIONS

### SW-30R UHF Receiver

Carrier Frequency Range: UHF Band 794-930 MHz  
 Frequencies: 30 pre-programmed  
 Oscillation Mode: PLL synthesized  
 Receiving Mode: True diversity  
 Sensitivity: 6 dBV at S/N over 70 dB  
 Image Rejection: >63 dB  
 Spurious Rejection: >76 dB  
 Stability: +/- 0.005%  
 Maximum Deviation: +/- 40 KHz  
 Dynamic Range: >110 dB  
 S/N Ratio: 95 dB (Typical)  
 THD: <0.2%  
 Squelch: Sabine two-stage  
 Squelch Quieting: 6-30 dB  
 Frequency Response: 50 Hz-18 KHz +/- 3 dB  
 Battery Charger: Built-in dual slot  
 Antennas: 2, 3/4λ.  
 Power Supply: 12-15 VDC/100-240 VAC 50-60 Hz  
 Rack-Mountable case  
 Working Range: 100 meters

### SW-16R VHF Receiver

Carrier Frequency Range: VHF Band 160-250 MHz  
 Frequencies: 16 pre-programmed  
 Oscillation Mode: PLL synthesized  
 Receiving Mode: True diversity  
 Stability: +/- 0.005%  
 Sensitivity: 10 dBV at S/N over 80 dB  
 Image Rejection: >63 dB  
 Spurious Rejection: >76 dB  
 Maximum Deviation: +/- 30/38 KHz  
 Dynamic Range: >110 dB  
 S/N Ratio: >95 dB  
 THD: <0.2%  
 Squelch: Sabine two-stage  
 Squelch Quieting: 12-40 dB  
 Frequency Response: 50 Hz-18 KHz +/- 3 dB  
 Antennas: 2, 1/4λ.  
 Battery Charger: Built-in dual slot  
 Power Supply: 12-15 VDC/100-240 VAC 50-60 Hz  
 Rack-Mountable case  
 Working Range: 100 meters

### Handheld Microphone

Element: Condenser  
 Antenna: Built-in  
 FM Deviation: 30 KHz for VHF, 40 KHz for UHF  
 RF Frequency Stability: +/- 0.005%  
 RF Output: 10 mW for VHF and 20 mW for UHF (Typical)  
 Spurious output: < 4 nW  
 Battery: One 9V (or Sabine Rechargeable)  
 Battery Life: 500 charge cycles

### UHF BeltPack Transmitter

FM Deviation: 40 KHz  
 RF Frequency Stability: +/- 0.005%  
 Spurious output: < 4 nW  
 RF Output: 20 mW typical  
 Audio gain: 0-30 dB  
 Mic input impedance: 470 K Ohms  
 Mic bias: 5V  
 Mic connector: 4-pin  
 Antenna type: 1/4λ  
 Battery: One 9V (or Sabine Rechargeable)  
 Battery Life: 500 charge cycles

### VHF BeltPack Transmitter

FM Deviation: 30 KHz  
 RF Frequency Stability: +/- 0.005%  
 Spurious output: < 4 nW  
 RF Output: 10 mW  
 Audio gain: 0-30 dB  
 Mic bias: 5V  
 Mic input impedance: 470 K Ohms  
 Mic connector: 4-pin  
 Antenna type: 1/4λ self contained  
 Battery: One 9V (or Sabine Rechargeable)  
 Battery Life: 500 charge cycles

### SWA-4U UHF Antenna Divider

Filter Bandwidth: 750-960 MHz +/- 3 dB  
 3rd Order Interception: (+) 22 dBm  
 Noise Figure: ≤ 3.7 dB (Center Band)  
 Input/Output Gain: (+)1.6dB (Center Band)  
 Output Port Isolation: 32 dB minimum  
 Connector: TNC type  
 Power Supply: DC 12-18 V  
 Current Drain: ≤ 176 mA

### SWA-4V VHF Antenna Divider

Filter Bandwidth: 165-250 MHz +/- 3 dB  
 3rd Order Interception: (+) 35.5 dBm  
 Noise Figure: ≤ 6dB (Center Band)  
 Input/Output Gain: (+) 1dB (Center Band)  
 Output Port Isolation: 16 dB minimum  
 Connector: TNC type  
 Power Supply: DC 12-18 V  
 Current Drain: ≤ 148 mA

### FBX Filters

Ten independent digital filters per channel, controlled automatically from 20 Hz to 20 KHz  
 Filter depth: 3 dB steps from 0 dB to -40 dB  
 Filter width: .1 or .2 octave\*  
 Resolution: 1 Hz from 20 Hz to 20 KHz  
 Time required to find and eliminate feedback: typically 0.3 seconds @ 1 KHz

### Digital Compressor

Threshold: -30 dBV to 0 dBV  
 Ratio: 1:1 through infinity  
 Knee: soft  
 Attack: 1-99 msec  
 Release: 400 msec

### Automatic De-Esser

Cut range: 0 to -30 dB

\*Below approximately 200 Hz the feedback filters become slightly wider to increase the feedback and rumble capture speed at these low frequencies.

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)

One-year limited warranty  
 Patented



SW-30R / SW-16R Back Panel

NO VARNISH -- FPO  
 DELETE THIS BOX



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