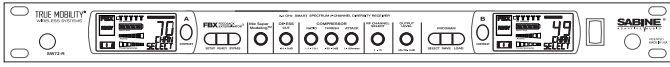


SWM7000 Series

Specifications



SW72-NDR Two-channel Receiver w/Network & Digital Interface



SW72-R Two-channel Receiver



SW71-R One-channel Receiver

SWM7000 series

The Sabine SWM7000 series wireless microphone systems

- * No interference from TV or DTV
- * Superior sound quality
- * Built-in DSP processing
- * Charge your batteries in the transmitters

Wireless microphones offer several advantages over their wired cousins, but they also bring along some undesirable baggage. Three major issues haunt the wireless mic user. RF problems, sound quality problems, and battery problems all combine to make the wireless experience a real challenge. And perhaps the biggest question facing wireless users is "With all these new laws allocating frequencies to DTV and other devices, will my wireless mics work tomorrow?" Sabine has the right answer to that and many other wireless challenges: SWM7000 Smart Spectrum Wireless. This ground-breaking new system sets a new standard for quality, reliability, and longevity of wireless microphones.

SW70 Series Receivers, 1- or 2-channel

Carrier Frequency Range: ISM Band 2400 - 2483.5 MHz

Frequencies: 70 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: < 5 ppm

Maximum Deviation: +/- 150 KHz

Dynamic Range: > 100 dB

S/N Ratio: 95 dB (Typical)

THD: <0.1%

Frequency Response: 20 Hz - 20 KHz +/- 1 dB

Antennas: 2, 1/2 wavelength, 50 Ohm

Power Supply: 100-240 VAC 50-60 Hz

Rack-Mount case

Working Range: > 100 meters

Outputs: Balanced XLR and TRS, mic or line level

RS232 & RS485** Serial Interface

Digital Audio Output with Sync Input**

Maximum Undistorted Sinewave Output:

- TRS balanced +20 dBV, +22 dBu, 300 Ohm source impedance
- XLR balanced +2 dBV, +4 dBu, 200 Ohm source impedance
- TRS UN-balanced +14 dBV, +16 dBu, 150 Ohm source impedance
- XLR UN-balanced -4 dBV, -2 dBu, 100 Ohm source impedance

NOTE: Both outputs are available simultaneously. Excessive loading of one of the outputs may affect the output of the other. The XLR output is protected against inadvertent application of Microphone Phantom Power

Digital Signal Processing

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/Limiter

Threshold: -60 dB to 0 dB

Ratio: 1:1 through infinity

Knee: soft to hard

Attack: 1-99 msec

Release: 10 to 1000 msec

Automatic De-Esser

Cut range: 0 to -30 dB

Microphone SuperModeling

Dynamic Capsules***

Shure SM-58

Shure Beta 58A

Audio Technica ATM 41a

AKG D3800

Condenser Capsules***

Shure Beta 87A

AKG C535 EB

Audio Technica ATM 89R

Crown CM200A

Presets

10 User Presets – Saves all configurations

Mechanical

Dimensions: 1-U rack-mount, 19 x 1.75 x 9 in.

(48.3 x 4.5 x 21.6 cm)

Weight: 5.3 lb. (2.4 kg)

Operating Temperature

Safe Operating Temperature: 0 - 50 degrees centigrade ambient temperature (32-129F)

Power

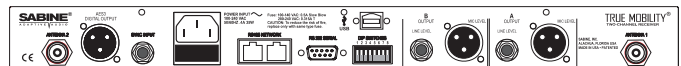
Power input rating: 100 – 240 VAC 50/60 Hz 0.4 A 35 W

Fuse: 100 – 140 VAC 0.5A 250V SLOW BLOW

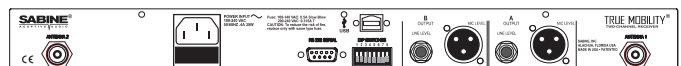
or

200 – 240 VAC 0.315A 250V TYPE T

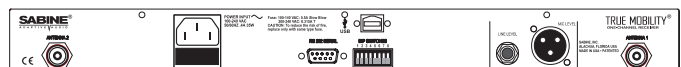
Back Panels



SW72-NDR Two-channel Receiver w/Network & Digital Interface



SW72-R Two-channel Receiver



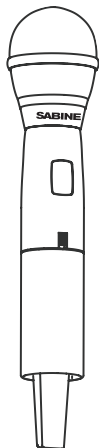
SW71-R One-channel Receiver

SWM7000 Series

Specifications continued

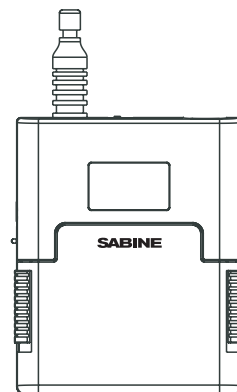
SW70-H1 Series Handheld Microphones

Dynamic Mic Capsule: Audix OM3 or Audix OM5
 Condenser Mic Capsule: Voice Technologies
 Antenna: Internal Fixed
 Maximum FM Deviation: +/- 100 KHz
 RF Frequency Stability: < 5 ppm
 RF Output: < 25 mW
 Spurious output: < -50 dB of rated output
 Telemetry: Battery Voltage, Mute Status, Capsule Type
 Programmable LCD
 Programmable On/Off switch
 Battery: Sabine Rechargeable or two 1.5V Alkaline AA cells
 Rechargeable Battery Life: 10 hours per charge,
 500 charge cycles (typical)
 Alkaline Battery Life: 8 hours (typical)



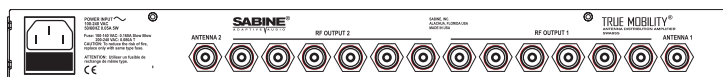
SW75 Series BeltPack Transmitter

Maximum FM Deviation: +/- 150 KHz
 RF Frequency Stability: < 5 ppm
 Spurious output: < -50 dB of rated output
 RF Output: < 25 mW
 Telemetry: Battery Voltage, Mute Status
 Programmable LCD
 Programmable On/Off switch
 Mic input impedance: 47 K Ohms
 Mic bias: 3.3V
 Mic connector: TA4
 Antenna type: Internal Fixed
 Battery: Sabine Rechargeable or two 1.5V Alkaline AA cells
 Rechargeable Battery Life: 10 hours per charge,
 500 charge cycles (typical)
 Alkaline Battery Life: 8 hours (typical)



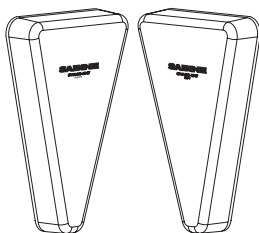
SWA6SS Antenna Distribution Amplifier (SWA6SS)

Two antenna inputs
 Six outputs per antenna to receivers
 Filter Bandwidth: 2.40 - 2.483 GHz +/- 3 dB
 1 dB Compression Input Level: -20 dBm
 Noise Figure: < 3.7 dB (Center Band)
 Input/Output Gain: (+)1.6dB (Center Band)
 Input/Output Impedance: 50 Ohm
 Output Port Isolation: 30 dB minimum
 Connector: TNC type, 50 Ohm
 Power Supply: 100-130 VAC or 200-240 VAC 50/60 Hz
 Safe Operating Temperature: 0 - 50 degrees centigrade ambient temperature (32-129F)



SWASS-EXT-3

- Wall mount or mic-stand mount
- Straight and right angle TNC connectors
- 130 degree reception pattern
- Variable gain,
 2.4GHz: 0 to 30 dB / 915 MHz:
 0 to 24 dB
- Phantom-powered from either the receiver or the distribution amp;
 Power LED indicator
- Dimensions: 6(h) x 4(w) x 2.5(d) in.
 (15.2 x 10.2 x 6.4 cm)
- Weight: .45 lbs (.20 kg)



Architect's and Engineer's Specifications:

Sabine SWM7000 Series Wireless

The wireless system shall operate in the ISM band between 2400 - 2483.5 MHz with the specific range being dependent on the user's local. The system shall operate in FCC ISM frequency bands that are above the UHF and VHF bands and are immune to TV and DTV interference, enabling up to 70 pre-programmed channels to be used simultaneously in the same location. The SWM7000 series operates license free in almost every country in the world. All transmitters shall be powered by two Sabine NiMH Rechargeable or two 1.5V Alkaline AA cells and shall have a power on/off switch. Available transmitters shall include: a belt pack for use with electric guitars, basses and other electrical instruments, and a handheld microphone for vocals. Both will have an LED indicating that power is on. The transmitters shall have a DC/DC converter to insure consistent performance, even if battery voltages change. The receivers shall have a user programmable, menu driven LCD showing group, channel, frequency, name, squelch level and locked/unlocked status. Built into the system shall be Sabine's patented FBX technology, which will employ ten independent digital filters per channel that are controlled automatically, Digital compressor/limiter, and, automatic de-esser. The handheld transmitters shall use microphone super-modeling for use with dynamic capsules or condenser capsules. The receiver shall include dual RF meters (one for each antenna), an audio level meter, and a networking interface connector for computer control and monitoring. The receiver shall have a volume control and an adjustable noise squelch control.

The system shall be the SWM7000 Series Wireless.

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)

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

**ND Series Receivers Only

***Company names, product names, and trademarks listed here are the property of their respective owners and are used only to identify evaluated microphones used to develop digital processing; they in no way imply association, endorsement, or approval by any named manufacturer.