

CONCERT SERIES IV

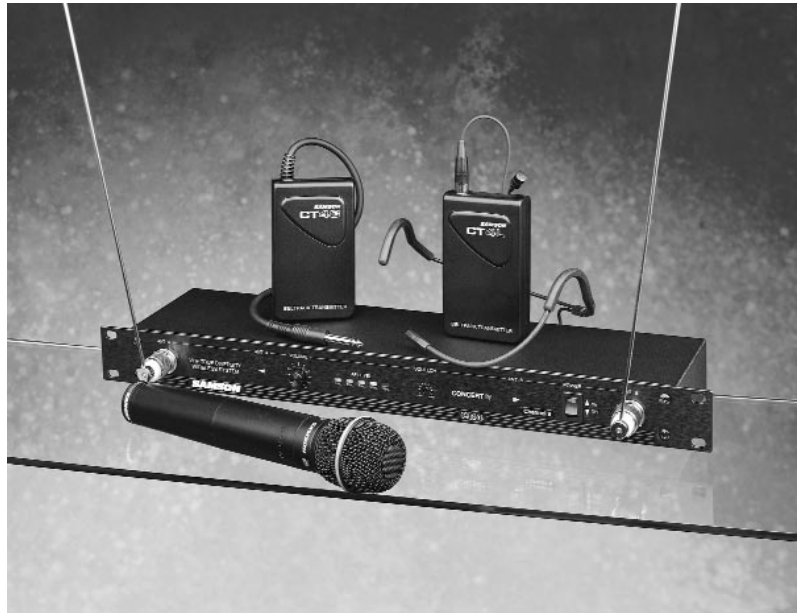
MICROPROCESSOR

TRUE DIVERSITY

WIRELESS SYSTEMS

VHF 173.6 MHz — 216.2 MHz

- Microprocessor True Diversity™.
- 19" rackmount metal chassis.
- Balanced XLR and unbalanced 1/4" outputs.
- 300 Feet overall range.
- Removable antennas for front or rear mounting.
- Transmitters use 9V battery (18-20 hours).
- Multi-segment audio level meter.
- Variable squelch and audio output controls.
- Approved for worldwide use.



- Made in the U.S.A.
- 3 Year warranty.
- Up to 13 systems can be used simultaneously.

Concert IV is a Microprocessor True Diversity VHF wireless system designed for use in live performance applications and permanent installations. This metal case, one-space rack-mount wireless system provides superior performance and durability. Concert IV features balanced XLR and unbalanced 1/4" outputs, removable antennas for front or rear mounting, a front panel multi segment audio level meter, and variable squelch and audio output controls.

Concert IV is available in handheld microphone, lavalier and headset systems, all with a wide variety of mic elements to choose from. Instrument systems (with 1/4" connector or wind instrument mic) are also available. All transmitters utilize a 9V alkaline battery with a 18-20 hour battery life. Concert IV is approved for worldwide use, has a 3 year warranty and is made in the U.S.A.

Contact:

ARCHITECT'S & ENGINEER'S SPECIFICATION

The Samson Concert Series IV VHF Wireless System shall be of a single-channel, crystal-controlled oscillator type operating on selected frequencies from 174.6 - 213.2 MHz. The System shall include a beltpack or handheld transmitter and a receiver, and shall allow operation of at least thirteen simultaneous systems on separate channels. The transmitter and receiver shall incorporate compander circuitry for noise reduction and maximum dynamic range.

The receiver shall provide a balanced microphone-level output on a male XLR-type connector and an unbalanced microphone-level output on a 1/4" phone connector. The unit shall have a 5 segment AF level meter indicating 10%, 25%, 75%, 100% and 125% of audio signal. The audio output level shall be adjustable with a variable attenuator. The receiver shall incorporate a power LED and dual LEDs for carrier indication. The receiver shall have an automatic signal sensing squelch circuit with a variable attenuator. The receiver shall incorporate Microprocessor True Diversity circuitry for automatic antenna switching. The receiver shall use two 12 VDC powered 1/4-wave removable antennas on M-J connectors. The receiver shall be powered by 115 Vac, 50/60 Hz via a supplied 12 VDC adapter. The receiver shall be notified under FCC rules, Part 15, and DOC certified under RSP 121. The receiver shall be of a rack-mount type. Dimensions of the receiver shall be 19" (480 mm) wide, 3.8" (96 mm) deep and 1.7" (44 mm; 1 rack space) high. Weight of the receiver shall be 3 lb. (1.4 kg).

The beltpack transmitter shall provide either a microphone-level input on a Switchcraft TA3F P3-type connector or an instrument-level input on a 1/4" phone connector. The beltpack audio input sensitivity or handheld microphone output level shall be adjustable with a variable attenuator. The transmitter shall provide a mute switch. The transmitter shall incorporate a battery strength LED and shall use an internal dipole antenna. The transmitter shall be powered by a 9 V alkaline battery and shall provide a nominal battery life of not less than 18 hours. The transmitter type shall be accepted under appropriate FCC rules. Dimensions of the beltpack transmitter shall be 2.6" (65 mm) wide, 4.3" (110 mm) deep and .9" (22 mm) high. Weight of the beltpack transmitter shall be 3.1 oz. (90 g). The System shall carry a three-year warranty.

The System shall be a SAMSON CONCERT SERIES IV VHF

CONCERT SERIES IV SPECIFICATIONS

RF Frequency Range:	173.6 - 216.2 MHz
Frequency Response:	40 Hz to 15 kHz ± 3 dB
Squelch Sensitivity:	18 dBu
Antenna Terminals (Receiver)	50 Ω , M-J input connector powered 12 VDC 160 mA max.
Antenna Type:	
Receiver:	1/4 λ rod
Transmitter (HT4):	Internal dipole
Transmitter: (CT4G/CT4L):	External (Gtr/Mic cable)
Antenna Gain:	< 2.14 dB
AF Level Meter:	10%, 25%, 75%, 100%, 125%
Bandwidth Selectivity:	± 150 kHz @ -60 dB
Audio Outputs (Receiver):	
Unbalanced	(-10 dB, 5 k 1/4" phone type connector)
Balanced	(-30 dBm, 600 Ω , XLR type connector)
Input Power (Receiver):	11 - 13.2 Vdc 1.9 W, 160 mA
Maximum Audio Input Level	
Transmitters:	-30 dB adjustable ($\Delta f = \pm 15$ kHz)
RF Sensitivity:	21 dBu @ s/n 55 dB
Signal To Noise Ratio:	> 94 dB (IHF-A weighted)
Dimensions	
Receiver (w/o antennas):	19" (w) x 3.8" (d) x 1.7" (h) 480 mm (w) x 96 mm (d) x 44 mm (h)
Transmitter (CT3L/CT3G)	2.6" (w) x 4.3" (d) x .9" (h) 65 mm (w) x 110 (d) x 22 (h)
Transmitter (HT3):	varies with mic type
Weight:	
Receiver (including antennas):	3 lb. / 1.4 kg
Transmitter (CT3L/CT3G):	3.1 oz. / 90 g
Transmitter (HT3):	varies with mic type