

# AKG ACOUSTICS

## SR 4000

### Description

#### a) Hardware

The SR 4000 UHF receiver is one standard EIA rack unit high and one-half rack unit wide with a full metal chassis. Thus, two receivers can be placed side-by-side in one rack space (rack-mount hardware included). The SR 4000 has a 30 MHz wide UHF band containing presets with intermodulation-free frequencies as well as a tuning mode with access to up to 1,200 switchable frequencies. The SR 4000 utilizes operates as a true diversity receiver, in which two completely separate antenna, receiver and demodulator sections are operational at all times. The receiver includes a Pilot Tone Decoder Unit that decodes transmitter data out of the Pilot Tone's data stream. This enables the SR 4000 to show battery charge status and mute status of the transmitter on the integrated, back-lit color display. This data is also available at the **Logic Output Connector** on the rear panel. The HT4000 & PT4000's Pilot Tone allows automatic muting of the SR's audio output in case of invalid or corrupted signal (**Tone Code Squelch TCSQ**). If necessary this automatic squelch option can be overruled by a manual squelch setting. For **PC control** and monitoring of the SR unit a special **data port** is available on the rear panel of the SR 4000.

The True Diversity receiver concept offers maximum dynamic range, greater freedom from interference and noiseless switching from one receiver to the other. Both balanced 3-pin XLR and unbalanced 1/4-inch output connectors are available. An output level switch allows the adjustment of 3 output levels (-30, 0, +6 dB) for optimum system gain structure. Also available on the rear panel are a data port connector, a logic output, 2 x BNC antenna Connectors and a lockable DC input jack.

Controls on the SR 4000 include a backlit display and a Jog wheel to adjust various receiver settings such as squelch threshold, carrier frequency selection, user's name, scan & rehearsal mode selection and many more. Indicators on the unit include mute, audio level bargraph, RF level bargraph, 6x14 segment alphanumeric display and menu control. A unique, programmable Status **Control Ring** shows the most important system data at one glance.

Each SR 4000 can accommodate a pair of diversity antennas; however, when a number of receivers are used in a single system, a master antenna pair (with or without antenna booster, directional and omnidirectional antennas) can be used to feed all receivers. A wide range of accessories such as an antenna splitter, antenna combiner and antenna booster are provided for operational flexibility and ease of installation.

#### b) Software

The internal software of the SR 4000 offers a wide range of control features for an easy setup even in complex multi-channel systems under difficult rf conditions. Most helpful are features like **AutoSetup** (automatic intermodulation free channel selection), **EnvironmentScan** (scanning of the unit's RF range), and **RehearsalMode** (recording of important system data during rehearsal helps optimize the system setup). Important settings like frequency, squelch, unit name, etc. can be edited and stored via an easy menu structure. Even more control & monitoring features are available via the optional **MCS 4000** (MissionControl Software) **PC Control Software**.



AutoSetup



RehearsalMode



EnvironmentScan



Battery Status / TX Mute



### Features

- Wideband true-diversity frequency-agile UHF receiver with 1,200 channels and all-metal chassis
- Factory-selected, pre-matched frequency groups for quick system setup
- Backlit color LCD allows easy monitoring of operating parameters at a glance
- Jog wheel control allows quick, easy parameter adjustments
- AutoSetup, EnvironmentScan and Rehearsal Modes for quick, easy system setup
- Bodypack and handheld transmitters available with a wide selection of AKG microphones
- Up to 24 intermodulation-free frequencies per frequency group
- Wide range of optional accessories available for system customization



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## Specifications

### SR 4000 Receiver

**RF Carrier Frequency Ranges:** 650 – 680, 680 – 710, 720 – 750, 760 – 790, 790 – 820, 835 – 863 MHz

**Carrier Frequencies:** up to 1,200 per range (dependent on local conditions)

**Modulation Method:** FM

**Rated Deviation:** 20 kHz at 1 kHz (sine wave)

**Squelch Threshold:** Adjustable between -70 and -100 dBm

**Audio Bandwidth:** 35–20,000 Hz

**THD at 1 kHz:** < 0.3% at rated deviation

**Signal-to-noise:** typ. 120 dBA

**Audio Output:** Balanced 3-pin XLR-M, switchable from -30 to +6 dB; unbalanced 6.5 mm (1/4-in.) jack

**Current Consumption:** 150 mA typical

**Power Requirement:** 11 to 15 V dc or ac from external power supply

**Size:** 7.8 x 7.4 x 1.7 in. (200 x 190 x 44 mm)

**Net Weight:** 34 oz. (972 g)

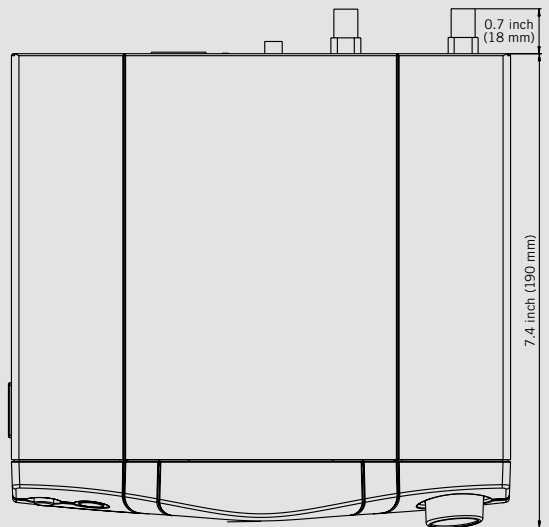
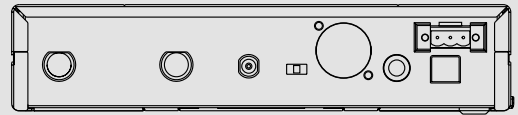
### Architects and Engineers Specifications

The wireless receiver shall operate over a 30 MHz UHF frequency range in one of 6 bands from 680 MHz to 863 MHz, with a wide range of possible frequency settings. The wireless microphone system shall incorporate factory-optimized sets of both sending and receiving frequency modules that are built into both transmitters and receivers. Each frequency set shall comprise a 30 MHz UHF band and offer up to 1,200 discrete operating frequencies within that band. The receiver shall operate on the true diversity principle, and the switching circuit shall be inaudible. Total harmonic distortion at 1 kHz for rated deviation shall be no greater than 0.3%. The receiver shall provide for a manual squelch adjustment as well as an automatic squelch option (tone code squelch) for optimum system operation. Audio output shall include a balanced XLR connector as well as an unbalanced 6.3 mm / 1/4-inch jack connectors. The output from the 3-pin XLR-type connector shall be adjustable in 3 steps (-30, 0, +6 dB). A data port for connecting a pc-controlled network and logic out connector shall be provided. The receiver shall be controlled by a jog wheel and shall provide a backlit color display as well as a programmable LED ring (red/green) showing the overall system status.

The wireless receiver shall be the AKG Acoustics Model SR 4000.

### Line Drawings

(us standard and metric measures)



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For detailed information on WMS 4000 and other products from AKG contact your dealer or visit [www.akg.com](http://www.akg.com)

Specifications subject to change without notice.

02/04/Proa-Nr. 1453

