



H A Harman International Company

# WLS 6060 MAX

## Wireless PA System



## Description

The AKG Acoustics Model WLS 6060 MAX wireless PA system is built around an integrated wireless receiver, preamplifier/amplifier and loudspeaker combination, all housed in a moderate size enclosure that weighs only 26.5 lbs. (12 kg). The amplifier section has a peak power rating of 60 watts, and the two-way loudspeaker system can produce peak output levels of 114 dB at a reference distance of 1 meter. When fully charged, the system will operate for 10 to 14 hours, depending on the duty cycle. The system can be charged from the ac power line while it is in full operational mode. It can be left in the charge mode indefinitely with no adverse effects.

The wireless input can be either by way of a handheld microphone (choice of D 3800 WL/1, C 5900 WL/1, or C 535 WL/1 head units) or by way of a bodypack, which can accommodate a variety of microphone accessories as listed in the specifications section. The integral WMS60 wireless microphone system can accommodate up to 15 channels, operating over the carrier frequency range from 182 to 205.7 MHz.

The built-in mixer independently accommodates three inputs: microphone (wired, 12-volt phantom powering), microphone (wireless) and music. There is a channel selector for wireless operation, a two-band equalizer for matching the system's loudspeaker to a specific operating environment, and an automatic speech filter limiter with subsonic filter for maintaining a consistent output level. A status LED indicates when the WLS6060 is on a ready to operate. When the LED turns red, the battery is low and the system must be plugged into the ac power source for recharging. A constant yellow LED indicates the battery is being charged, and as soon as the charging cycle is completed the yellow LED will flash.

Additional WLS 6060 modules can be fed by the host module for added output capability and extended coverage.

## Features

- **Self-contained microphone, preamp, and battery powered public address system**
- **Works for 10 to 14 hours on battery power**
- **Wireless microphone capability for maximum mobility**
- **“Smart” signal processing for controlled, distortionless, and highly intelligible speech quality**
- **Multiple speaker units may be stacked for greater coverage**
- **Ideal for seminars, exhibition booth activity, as well as on-stage solo instruments**

# Specifications

## WLS 6060:

<b>Amplifier power (continuous/peak):</b>	40 W/60 W
<b>Loudspeaker system:</b>	2-way ported
<b>Sensitivity (1 W @ 1 m):</b>	96 dB
<b>Peak SPL output (1 m):</b>	114 dB
<b>Nominal coverage angles:</b>	80° horizontal and vertical
<b>Mixer inputs:</b>	1 x wireless (internal) 1 x balanced external mic (1 kohm) 2 x line inputs (10 kohm)
<b>Phantom powering:</b>	12 V (balance mic input)
<b>Outputs:</b>	2 line out jacks (+12 dB/600 ohms)
<b>Connectors:</b>	balance mic input: XLR line in for CD, cassette (stereo summed to mono) 2 x RCA jacks MIX/REC out: RCA jacks antenna in: 2 x BNC
<b>Equalizer:</b>	separate bass and treble
<b>Processor:</b>	automatic speech filter/ limiter with autosubsonic filter
<b>Size (W x D x H):</b>	10.6 x 9.4 x 19.7 inches (270 x 239 x 500 mm)
<b>Weight:</b>	26.5 lbs. (12 kg), including battery and receiver
<b>AC adapter:</b>	120 V ac/24 V dc @ 1.0 A
<b>Rechargeable battery:</b>	12 V, approx. 7.2 Ah
<b>Battery live (speech/music):</b>	10 - 14 hours

## WMS 60 Wireless System:

	HT60:	PT60:
<b>Carrier frequency:</b>	182 - 205.7 MHz	
<b>Modulation:</b>	FM	
<b>Audio bandwidth:</b>	50 - 20 kHz	
<b>Polar pattern:</b>	supercardioid -	
<b>Frequency stability:</b>	14° to 122°F (-10° to 50°C) ± 10 ppm	
<b>Rated deviation:</b>	30 kHz	
<b>THD @ 1 kHz:</b>	<0.8%	<0.5%
<b>Companer:</b>	yes	
<b>Signal/noise ratio:</b>	typ. 50 dBA	
<b>Limiter:</b>	yes	
<b>RF output:</b>	10 mW	
<b>Current consumption:</b>	typ. 120 mA	typ. 150 mA
<b>Power requirement:</b>	2 x 1.5 V AA size batteries	
<b>Battery life:</b>	>12 hours	>10 hours
<b>Input sensitivity:</b>	typ. -95 dBm	-
<b>Input impedance:</b>	220 kohms	
<b>Microphone powering:</b>	-	6 V at pin 3
<b>Size (W x D x H):</b>	9.4 x 1.4 in. dia (240 x 36 mm)	3.5 x 2.5 x 0.8 in. (92 x 65 x 20 mm)
<b>Net weight:</b>	8.7 oz. (245 g)	2.7 oz. (76 g)
<b>Accessories:</b>	<b>Optional:</b>	
<b>Carrying bag:</b> CB 6060	<b>C 417/L</b>	Instrument microphone
<b>Rain cover:</b> RP 6060	<b>CK 77/L</b>	Instrument microphone
<b>Microphone bag:</b> MB 6060	<b>C 419/L</b>	Instrument microphone
	<b>MK/GL</b>	Guitar cable
	<b>C 420/L</b>	Head worn microphone

# Architects and Engineers Specifications

The wireless public address (PA) system shall consist of a compact module containing a two-way loudspeaker system, integral power amplifier and preamplifier. The weight of the system shall not exceed 27 lbs. (12 kg), and the power amplifier/loudspeaker section shall be capable of producing a peak output level of 114 dB SPL measured at a distance of one meter. The input section of the system shall accommodate simultaneously a wired microphone, with 12 V phantom powering, a line input for

external music source (cassette or DAT), and the capability of handling at least 15 individual wireless microphone channels. The preamplifier section shall contain an equalizer section with at least two controls, bass and treble, and there shall be a limiter with an automatic subsonic filter. The system shall provide at least two line level output jacks for external recording and feeding additional PA modules. The system shall be the AKG Acoustics Model WLS 6060 MAX Wireless PA System.

## Limited Warranty

Valid only in the United States. AKG Acoustics warrants AKG products against defects in material or workmanship for a period of two years from the date of original purchase for use, and agrees to repair or, at our option, replace any defective unit without charge for either parts or labor. Important: This warranty does not cover damage resulting from accident, misuse or abuse, lack of reasonable care, the affixing of any attachment not provided with the product, loss of parts or connecting the product to any but the specified receptacles. This warranty is void unless service or repairs are performed by an authorized service center. No responsibility is assumed for any special, incidental

or consequential damages. However, the limitation of any right or remedy shall not be effective where such is prohibited or restricted by law. Simply take or ship your AKG product prepaid to our service department. Be sure to include your sales slip as proof of purchase date. (We will not repair transit damage under the no-charge terms of this warranty.) Note: No other warranty, written or oral is authorized by AKG Acoustics, Inc. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitation on how long an implied warranty lasts, so the above exclusions and limitation may not apply to you.

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Specifications subject to change without notice.

DS-WLS 6060 MAX

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