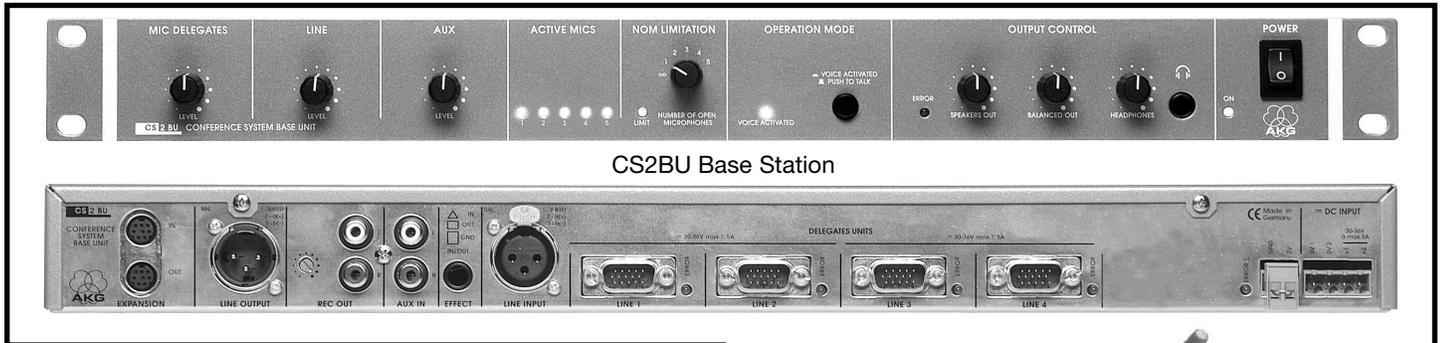




H A Harman International Company

CS 2

Conference system



CS2BU Base Station

Description

The AKG CS2 is a fully modular and cascadable, user operated, push to talk discussion reinforcement system available in portable tabletop format or as an installed system.

The CS2BU Base Station occupies a single rack space, the CS2BU features intelligent functions such as automatic NOM (Number of Open Microphones) limitation, selectable voice activation, which can be set to automatically open microphones as soon as they are spoken into. Other functions include output level controls for global speakers level, headphones, balanced outputs as well as input control for line, aux and microphone station input level.

Delegate stations have a push to talk button as well as individual speaker level control and 3.5 mm headphone jacks. Chairman Stations differ from delegate stations only in that they feature a priority button allowing the user to override all other microphones.

All microphone stations can be customized to the individual user through bottom panel dipswitches and pots that allow a variety of functions to be adjusted individually. Those functions include:

- Voice activation on/off
- Voice activation threshold
- Voice activation hold time
- Microphone auto-mute (after user stops talking)
- Enable/disable NOM limitation
- Priority override exemption
- Voice zoom on/off
- Loudspeaker/headphones level reset or last setting
- Adjustable compression
- Adjustable mic input level

Voice zoom detects and optimizes the signal arriving at each microphone, acting like a camera's lens "focusing" on the sound source. The microphone "zooms in or out" to a person's voice, using a combination of leveler, limiter and compressor helping to equalize different sound levels caused by varying distances, input angles and/or source strengths.

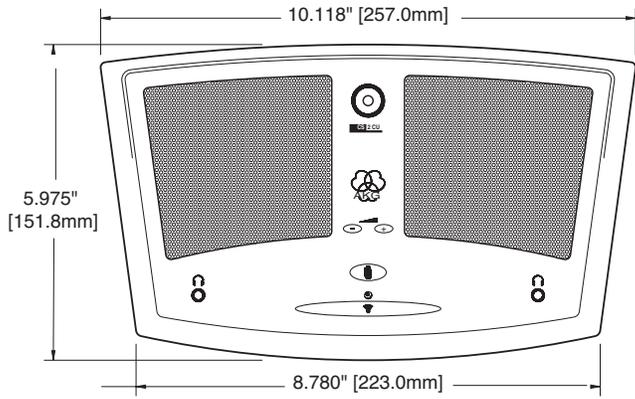
CS2CU & CS2DU
(portable mic station)



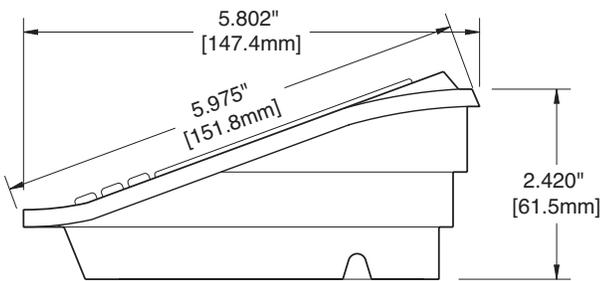
Features

- **Condenser Microphone capsules:** CK31-cardioid, CK32-omni, CK33-hypercardioid, CK47-hypercardioid & CK80-hypercardioid
- **Modular goosenecks:** GN50CS (19.85") GN30CS (12.23")
- **Microphone stations:** CS2CU portable chair station, CS2DU portable delegate station, CS2CUfix installed chair station, CS2DUfix installed delegate station
- **Connecting cables:** CSMK1.25fm (4 ft.), CSMK2.5fm (8 ft.), CSMK5fm (16.5 ft.), CSMK10fm (33 ft.), CSMK20fm (66 ft.) CSMK100oc/mob (100 meter spool – no connectors)
- **Base Station:** CS2BU - Central control unit for up to 200 Microphone Stations
- **Power Supplies:** CSPS20 - powers up to 40 delegate & chair stations
- **CSPS100:** Powers up to 200 delegate & chair stations

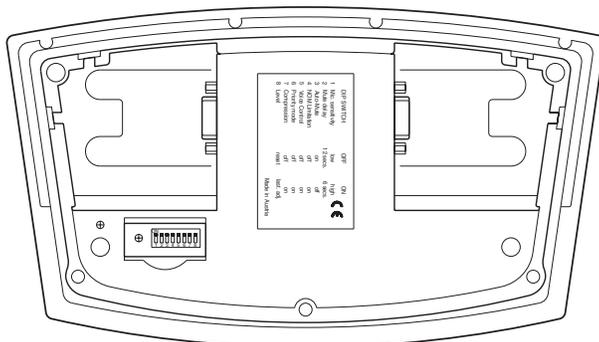
CS2CU / CS2DU



TOP

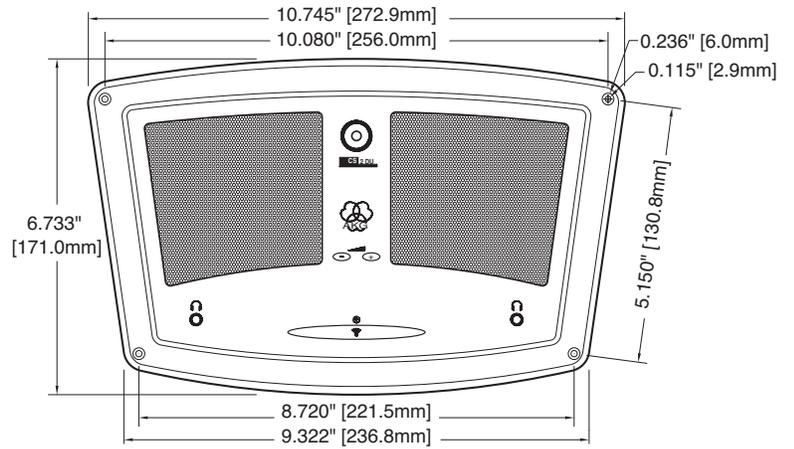


SIDE

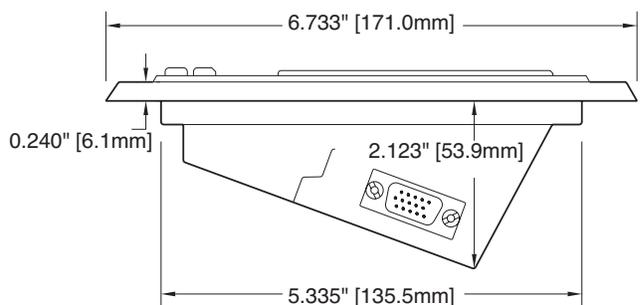


BOTTOM

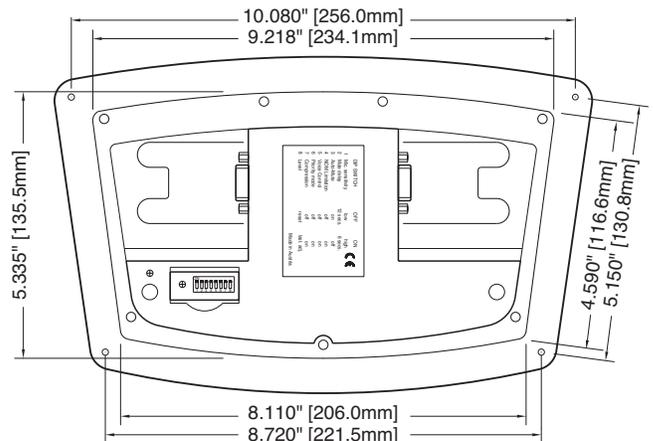
CS2CUfix / CS2DUfix



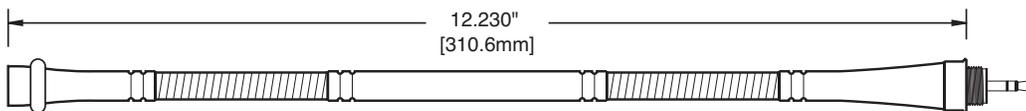
TOP



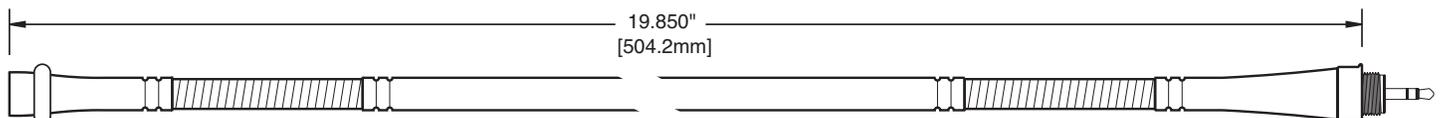
SIDE



BOTTOM



GN30CS



GN50CS

Specifications

CS2DU/CU

INPUTS

Compatible microphones:

CK31, CK32, CK33, CK47,
or CK80 in conjunction with GN30CS
or GN50CS

Type: Unbalanced, with DC supply voltage

Input impedance: 1.5 k Ω

Supply voltage: 5.5 V DC

Max. input level for <1% THd, V out <+3 DB:
25 dB

OUTPUTS

LINE

Connector: 15-pin male HD D-sub

Type: Transformer balanced, floating

Rated output level: +10 dBu

Audio bandwidth: 55 to 35,000 Hz

S/N Ratio, 22 to 22 kHz, QPK:
81 dB

System compatibility: Microphone Station input on Base
Station, compatible with CS 1

THD @ 1kHz: 0.25%

EIN with noise gate, 22 Hz to 22kHz; QPK:
-105 dBu

HEADPHONES AND BUILT-IN SPEAKERS

Headphones connectors: 2 x mini TRS jacks

Output power for <1% THD:
0.48 W

Min. headphones load impedance: >8 Ω

Audio bandwidth: 30 to 45,000 Hz

S/N, 22 to 22 kHz, QPK: 81 dB

THD @ 1 kHz: 0.25%

Equivalent noise level with noise gate, 22 Kz to 22 kHz:
-92 dBu

Digital potentiometer attenuation:
32 stages from 0 to -42 dB linear,
-82 dB max.

SYSTEM

Adjustable functions: Voice activation threshold
Voice activation hold time
Microphone automute ON/OFF
Enable/disable NOM limitation
Voice activation ON/OFF
Priority level
Compression ON/OFF
"Voice zoom" ON/OFF
Headphones/speaker volume
reset/last setting
Adjustable compression

Operating voltage: 23 to 36 VDC

Current consumption: 35 to 63 mA

Max. power requirement: 1.9 watts

Size (l x w x h, Desktop version):
1.0 x 6.0 x 2.9 in. (257 x 153 x 74 mm)

Net/shipping weight: 2.1 lbs. / 3.3 lbs. (950 g / 1500 g)

Finish: Blue Line gray / matte black

Package contents: Station without microphone and cables

CS2BU

INPUTS

MICROPHONE STATIONS

Connector: 4 x 15-pin male HD D-sub

Input level: +10 dBu (compatible to CS 1)

Type: Electronically balanced

Max. input level for <1% THD:
+13 dB

LINE

Connector: 3-pin female XLR

Input level: ± 0 dBu

Type: Transformer balanced

Input impedance @ 1 kHz:
30 k Ω

Max. input level for <1% THD:
17 dB

AUX

Connector: 2 x female RCA

Input level: -10 dBu

Type: Unbalanced

Input impedance @ 1 kHz:
33 k Ω

Max. input level for <1% THD:
+15 dB

OUTPUTS

RECORD

Connector: 2 x female RCA

Output level: ± 0 dBu

Max. output level for <% THD:
+17 dBu

Audio bandwidth: 15 to 50,000 Hz

Min. load impedance: 500 Ω

THD @ 1kHz: 0.01%

S/N, 22 to 22 KHZ, QPK: 88 dB

LINE

Connector: 3-pin male XLR

Output level: ± 0 dBu

Max. output level for <% THD:
+10 dBu

Audio bandwidth: 20 to 40,000 Hz

Min. load impedance: 300 Ω

THD @ 1kHz: 0.02%

S/N, 22 to 22 KHZ, QPK: 88 dB

HEADPHONES

Connector: 1/4" TRS jack

Bandwidth: 17 to 25,000 Hz

Output level: ± 0 dBu

Max. output level for <% THD:
+14 dBu

Min. Impedance: 150 Ω

THD @ 1kHz: 0.05%

S/N, 22 to 22 KHZ, QPK: 82 dB

EFFECTS

Connector: 1/4" TRS jack

Output level: ±0 dBu

Input impedance: <4.7 k Ω

Min. load impedance: 220 Ω

SYSTEM

Operating voltage: 23 to 36 VDC

Current consumption: 170 to 200 mA

Max. power requirement: 7.2 watts

Size (lxwxh): 6.7 x 17 x 1.7 in. (170 x 430 x 44 mm)

Net/shipping weight: 5.5 lbs. / 7.1 lbs. (2.5 kg / 3.2 kg)

Package contents: Base Station (without power supply),
User Instructions

ACCESSORIES FOR THE CS2 CONFERENCE SYSTEM

CK31, 32, 33, 47, 80 Discreet Acoustics Series microphone capsule

CSMK2.5fm: Connecting cable, 8 ft. 3 in. (2.5 m)

CSMK5fm: Connecting cable, 16 ft. 5 in. (5 m)

CSMK10fm: Connecting cable, 33 ft. (10 m)

CSMK20fm: Connecting cable, 66 ft. (20 m)

GN30CS: Gooseneck, approx. 12 in. (30 cm) long

GN50CS: Gooseneck, approx. 20 in. (50 cm) long

CSMK100oc/fi: 328-ft. (100 m), 0.4-in. (9.5 mm) dia. cable for permanent installation

CSMK100oc/mob: 328-ft. (100 m), 0.26-in. (6.5 mm) dia. cable for mobile installation

CSCONfm/fi: Female D-sub connector for permanent installation

CSCONm/fi: Male D-sub connector for permanent installation

CSCONfm/mob: Female D-sub connector for mobile installation

CSCONm/mob: Male D-sub connector for mobile installation

CSCONfloor/m/fi: Male D-sub floor connector

CSCONsplit2/m/mob: Male/male D-sub adapter

CSCONsplit4/m/mob: 4 x male D-sub splitter

CSMKAC-US: US power cable

Architects and Engineers Specifications

The conference system shall be a modular, single-cable system for quick installation. A base station shall control up to 200 microphone stations and provide expansion ports for setting up systems with more than 200 microphone stations. The system shall be compatible with most current types of signal sources, recording devices, sound systems, teleconferencing systems, etc. The system shall include a chairperson station with a priority button. Both the chairperson station and the delegate station shall be available in a desktop version for mobile systems and a

table mount version for fixed installation. Goosenecks in two different lengths (approx. 12 in./30 cm and approx. 20 in./50 cm) and five different microphone capsules for optimum voice pickup shall also be available. All types of microphone stations shall provide a "Voice Zoom" function and other individually adjustable functions including voice activation, automatic mute after prolonged pauses, noise gate, etc. The system shall be the AKG Acoustics Model CS 2.

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.

Microphones · Headphones · Wireless Microphones · Wireless Headphones · Headsets · Electroacoustical Components



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