



AKG

AKG INTEGRATED SYSTEMS
Conferences, presentations, events

Designed in Vienna, Austria



AKG – integrated systems

Make your ideas heard

When professionalism matters, there is no place for compromise. This is why AKG has the perfect solution for every kind of discussion system. The installation, ease of operation and consistent performance make for an unbeatable combination of qualities for high-performance systems in demanding set-ups. Furthermore, AKG offers maximum flexibility because, whether for a small meeting or a major conference with large numbers of delegates, the systems can be expanded almost at will – without the need for fundamental changes. Discover for yourself the virtually limitless possibilities of the many AKG solutions.

CS5



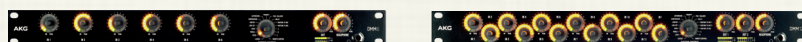
Digitally controlled conference system

CS3



Discussion system

DMM



Digital microphone mixers

TT



Tabletop microphone systems

WTT



Wireless tabletop microphone systems



Digitally controlled conference system

Feels good to be understood

Understanding is the basis of all cooperation, both in daily life and professionally.

In conferences, being clearly heard and understood is a basic prerequisite for success.

This is why AKG has developed the CS5 digital conference system, which not only transmits the traditional crystal-clear AKG sound, but also features intelligent control – the best possible basis for positive interaction.

With more than 60 years of experience in audio technology and state-of-the-art digital technology, AKG makes connecting and using the CS5 child's play. A system you can configure entirely to suit your particular requirements and that can grow as needed to meet your demands.





CS5 components

CS5 BASE UNIT | FRONT PANEL



CS5 BASE UNIT | CONNECTIONS



CS5 VU



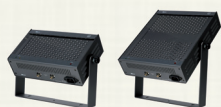
CS5 DU



CS5 IU



CS5 IRR7



CS5 IRT1 IRT2



CS5 CU50

The user-friendly **CS5 BU** base unit makes it easy to control any system – from the simple basic configuration to highly complex conference systems. This is an all-inclusive solution comprising basic software, a seven-channel infrared modulator and an interpreter function for up to 63 different languages.

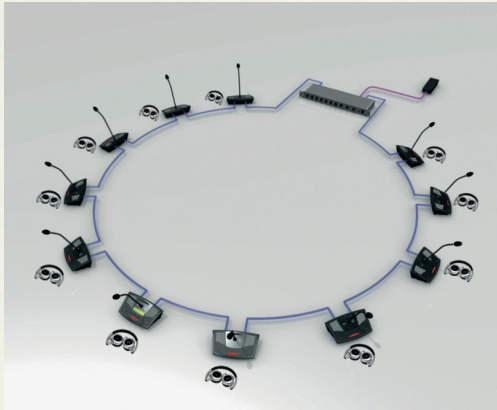
The **CS5 DU** (delegate unit): a range of selectable microphone modes for the most varied room acoustics. Three interpreted language channels, each assignable to two separate speakers. Simple yes/no selection for efficient voting at the press of a button.

Because the **CS5 VU** can be used both as a classic delegate unit and as a chairman unit, expanding the system is easy and will not have an impact on flexibility. The CS5 VU offers up to 63 language channels, independently selectable for two users, a display and multifunctional buttons permitting one-, three- and five-way voting functions as well.

The **CS5 IU** is a multifunctional interpreter unit designed to meet international standards. An optional headset (e.g. AKG HSD/HSC series) offers superb freedom of movement for interpreters to do their job.

Additional components, such as the **AKG CS5 IRR7** infrared receiver or the **IRT1** and **IRT2** infrared transmitters, complement the system, permitting wireless reception of translated languages.

CS5 – endless possibilities



Really big in the small things

Simple discussion system: the microphone stations and base unit are daisy-chained together in just one closed loop. **Advantage 1:** Extremely simple! Can also be used by personnel with no special training. **Advantage 2:** In the unlikely event of a damaged cable, no problem: The conference can continue – not in a loop but via two stubs as far as the cable interruption. If desired, the goosenecks next to the cable damage will light up in red, making it easier to find the interruption. During a break, everything can then be quickly and easily repaired – even by untrained personnel.

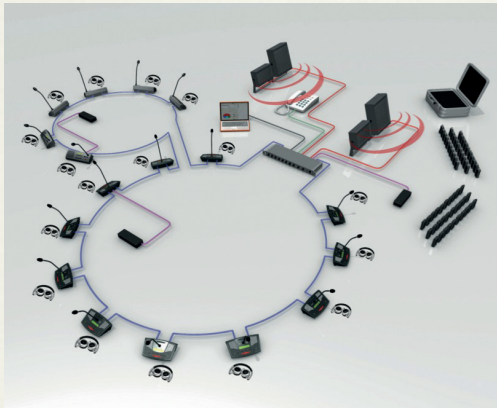
- CAT 5 bus
- Power wiring



No language barriers

If interpreters are to be integrated, simply open the loop at any point and daisy-chain the interpreter stations into the system. Then simply wire the last interpreter station back into the delegate station loop – ready! No need for elaborate splitters and the like. And, above all, no need for extensive specialist knowledge. Here, too, there is the advantage that any cable breakage has no negative consequences.

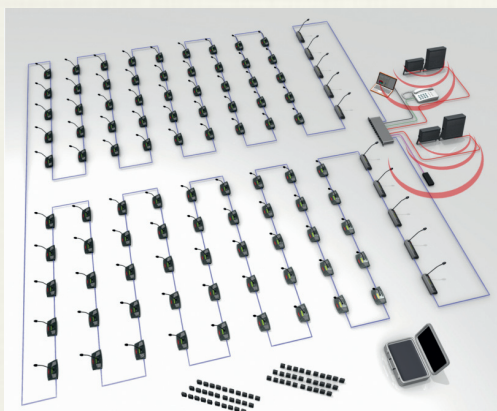
- CAT 5 bus
- Power wiring
- USB wiring



All eyes on CS5

If an infrared language transmitter is also to be integrated for interpreter channels, you simply connect IR transmitters directly to the base unit – without additional devices, licences, etc. Nor is there any need for complicated calculations – one transmitter in each corner of a medium-sized room with about 100 listeners (may vary depending on the lighting situation) and the interpreting system is ready for the auditorium.

- CAT 5 bus
- Power wiring
- USB wiring
- XLR wiring
- Coaxial wiring



Quick start for big events

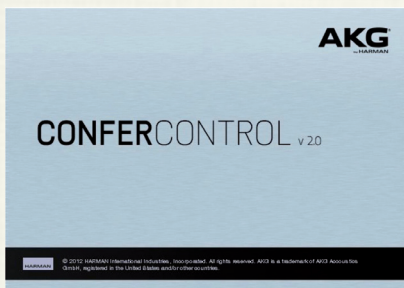
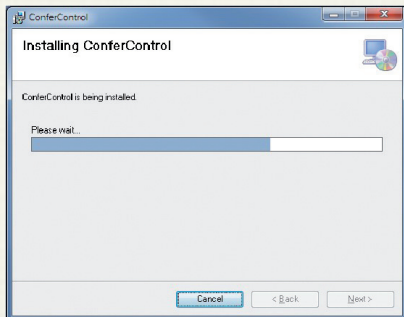
When size really does matter, the CS5 can theoretically offer up to 5,000 microphone stations by adding components as required. The loop system simplifies conversion and saves time and cabling, which is in turn reflected in the budget.

- CAT 5 bus
- Power wiring
- USB wiring
- XLR wiring
- Coaxial wiring





Software: intuitive control

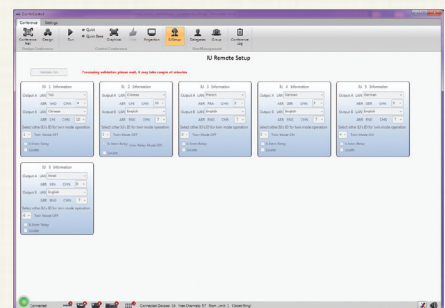
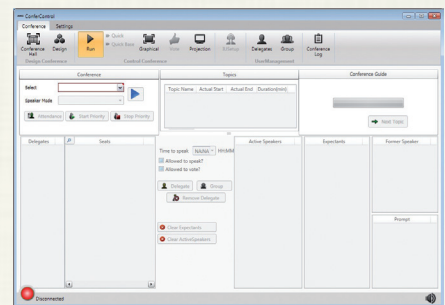


CS5 SOFTWARE

A USB plug integrated in the base unit enables computer-controlled operation. Most conference control functions, including the database, are included in the free software. For absolutely professional applications in parliament and similar venues, the CCV2 PRO software is available as an add-on module.

Basic control software

Based on a database, managing access rights with the basic control software is almost as easy as calling up a table. Individual delegates are simply entered for the conference, together with their respective rights. The actions and rights of the speakers can then easily be managed by means of the drag and drop function. Additionally a second screen offers an overview of votes, agenda items and speakers for better conference planning.



CS5 Pro control software

Compared with the basic version, the software expansion offers many useful additional functions. You can upload an image of the conference room and create a virtual switchboard, allowing the operator to activate or mute a station simply by clicking on the relevant icons. A comment option in the multifunctional buttons additionally enables speakers to signal to the chairperson that they wish to comment, and this immediately appears on the display.

You can download the complete CS5 software manual as a PDF here



CS5 specifications



Find out more about the CS5 system here



CS5 Base unit

		Minimum	Nominal	Maximum	Unit
DC 48 V/3A IN	Input Voltage:	44	48	55	VDC
	Power Requirement:	3	-	4	W
LINE IN	Input Level:	-	0	+6	dBu
	Impedance:	-	20	-	kohms
TELEPHONE IN	Input Level:	-	0	+6	dBu
	Impedance:	-	20	-	kohms
EFFECT IN	Input Level:	-	0	+6	dBu
	Impedance:	-	20	-	kohms
TAPE IN	Input Level:	-	-10	-4	dBu
	Impedance:	-	20	-	kohms
EXT. LANG IN	Input Level:	-	0	+6	dBu
	Impedance:	-	20	-	kohms
EXT. MIC IN	Input Level:	-	-40	-34	dBu
	Impedance:	-	20	-	kohms
	E.I.N.:	-	-124	-	dBu



CS5 DU Delegate microphone station

		Minimum	Nominal	Maximum	Unit
POWER SUPPLY	Supply Voltage:	44	48	50	V
	Power Consumption:	-	1.5	3	W
MIC INPUT	Frequency Range (-3 dB):	100	-	16k	Hz
LOUDSPEAKER OUTPUT	Power:	-	0.3	1.2	W
	Frequency Range (-3 dB):	200	-	22k	Hz
	Signal/Noise Ratio:	70	-	-	dB
HEADPHONE OUTPUT	Power:	-	30	60	mW
	Load Impedance:	8	32	-	ohms
	Frequency Range (-3 dB):	45	-	22k	Hz
Width:			10.1/257		in./mm
Depth:			5.8/147		in./mm
Height:			1.9/73		in./mm
Weight:			2.0/900		lbs./g



CS5 IU Interpreter station

		Minimum	Nominal	Maximum	Unit
POWER SUPPLY	Supply Voltage:	44	48	50	V
	Power Consumption:	-	1.5	3	W
MIC INPUT	Frequency Range (-3 dB):	100	-	16k	Hz
LOUDSPEAKER OUTPUT	Power:	-	0.3	1.2	W
	Frequency Range (-3 dB):	45	-	22k	Hz
	Signal/Noise Ratio:	70	-	-	dB
HEADPHONE OUTPUT	Power:	-	180	250	mW
	Load Impedance:	8	32	-	ohms
	Frequency Range (-3 dB):	45	-	22k	Hz
Height:			12.2/310		in./mm
Width:			6.0/125		in./mm
Depth inc. Connector Protrusion			3.4/86		in./mm
Weight:			2.2/1000		lbs./g

		Minimum	Nominal	Maximum	Unit
OUTPUT LEVELS	Line Out:	-	0	+6	dBu
	Telephone Out:	-	0	+6	dBu
	Effect Out:	-	0	+6	dBu
	Tape Out:	-	-10	-4	dBu
OUTPUT	Load Impedance:	-	1	-	kohms
OUTPUT	S/N Ratio (Ext. Mic. Vol. Red.):	88	85	-	dB
OUTPUT	Frequency Range (-3 dB):	20	-	20k	Hz
OUTPUT LEVELS	Line Out:	-	90	200	mW
	Telephone Out:	8	32	-	kohms
	Effect Out:	45	-	22k	Hz
	Tape Out:	70	-	-	dB
Height:			1/1.75/44		rack unit/in./mm
Width:			19/482		in./mm
Depth inc. Connector Protrusion:			4.25/108		in./mm
Weight:			3.2/1450		lbs./g



CS5 VU Basic microphone station

		Minimum	Nominal	Maximum	Unit
POWER SUPPLY	Supply Voltage:	44	48	50	V
	Power Consumption:	-	1.5	3	W
MIC INPUT	Frequency Range (-3 dB):	100	-	16k	Hz
LOUDSPEAKER OUTPUT	Power:	-	0.3	1.2	W
	Frequency Range (-3 dB):	45	-	22k	Hz
	Signal/Noise Ratio:	70	-	-	dB
HEADPHONE OUTPUT	Power:	-	30	60	mW
	Load Impedance:	8	32	-	ohms
	Frequency Range (-3 dB):	45	-	22k	Hz
Width:			10.1/257		in./mm
Depth:			5.8/147		in./mm
Height:			1.9/73		in./mm
Weight:			2.0/900		lbs./g



CS5 IRT 1+2 Infrared transmitters

	CS5 IRT 1	CS5 IRT 2
IN	0-5 V/50 ohms	0-5 V/50 ohms
OUT	0-5 V/50 ohms	in./mm
POWER VOLTAGE	230 VAC, 50 Hz	in./mm
POWER REQUIREMENT	20 W	lbs./g
COVERAGE VOLUME	10,574-15,860 cu.ft./ 300-450 m ³	15,860-26,434 cu.ft./ 450-750 m ³





Discussion system

True greatness

The **CS3** is the right choice whenever a compact, cost-efficient solution is wanted for small to medium-sized conference systems. With its elegant design and technical finesse, it combines functionality with high aesthetic standards. In addition to simple installation and intuitive operation, the **CS3** offers ergonomic comfort that knows no equal.

Take the goosenecks, for example: available in two different sizes, they offer a choice of microphone to suit the application for which it is required. Capable of supporting microphones for up to 60 delegates, the **CS3** more than meets the demands for state-of-the-art communication solutions in the conference sector.



CS3 components

CS3 BASE UNIT | FRONT PANEL



CS3 BASE UNIT | CONNECTIONS



CS3 DU



CS3 CU



CS3 BU + CU + DU

The **CS3 BU** base unit controls the 60 microphone stations, supplies them with power and, apart from being easy to operate, is effortlessly expanded by connecting additional components such as camera control systems, additional audiovisual devices and various PA systems. The volume is set by means of a touch switch, while integrated LEDs provide a perfect overview. Furthermore, the number of open microphones can be limited to one, two, four or six for greater control and structuring of the discussion.

Integrated 2 W loudspeakers and headphone outputs in the **CS3 DU** (delegate unit) facilitate independent use by two delegates. The LED display along the side of the PTT (press to talk) button provides a quick overview of the selected function. An additional LED ring on the gooseneck also displays the function for the benefit and orientation of other delegates.

The **CS3 CU** chairman unit features three buttons for additional functions to give the chairman full control over the discussion:

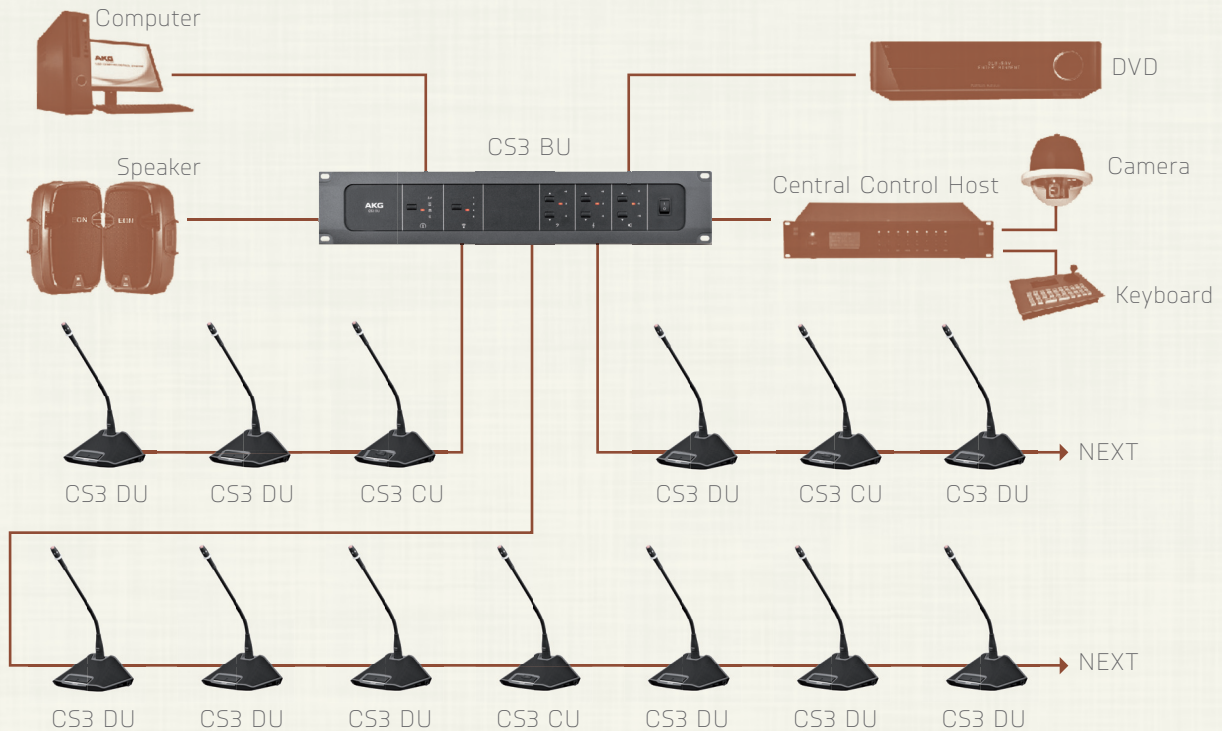
- **'Speak' button** corresponding to the delegate microphone stations
- **'Approve' button** for activating delegate microphones ('next in line')
- **'Priority' button** for muting all other microphone stations – helpful if the discussion gets out of hand

With its intuitive user interface, ease of use and configuration, the **CS3** is an impressive conference system that is effortlessly set up and dismantled.





CS3 application example



Specifications



CS3 BU (Base Unit)

POWER SUPPLY	SMP5 100-240 V (50 Hz/60 Hz) 3A
STATIC CONSUMPTION	13 W
NOMINAL POWER CONSUMPTION	320 W
OUTPUT POWER	≤90 W/24 V each way
MODE	Balanced/Unbalanced
FREQUENCY RESPONSE	50 Hz-20 kHz
SNR	>80 dB
HARMONIC DISTORTION	<0.5 %
HARMONIC DISTORTION AT OVERLOAD	<1 %
CROSSTALK ATTENUATION (1 kHz)	>50 dB
DIMENSION	482 L x 281 W x 88.4 H (mm)
WEIGHT	about 5.2 kg
OPERATING TEMPERATURE	0°C to 40°C at 95% relative humidity (noncondensing)



CS3 CU (Chairman Unit)/CS3 DU (Delegate Unit)

POWER SUPPLY	DC24V Supplied by the Base Unit
POWER CONSUMPTION	3 W
LOUDSPEAKER POWER	2 W
SNR	>80 dB
FREQUENCY RESPONSE	50Hz-20kHz
INTERCOMMUNICATION	DIN 8-pole
HEADPHONE OUTPUT	9 dBu, 8-32 ohm, 3.5 mm
CROSSTALK ATTENUATION	>80 dB
HARMONIC DISTORTION	<0.1 %
DIMENSION	170 L x 143 W x 63 H (mm)
WEIGHT	about 1 kg
OPERATING TEMPERATURE	0°C to 40°C at 95% relative humidity (noncondensing)



Find out more about the CS3 system here



Automatic digital microphone mixer



It's all in the mix – automatically!

The three new 19" mixers **DMM 6** (6 channels), **DMM12** (12 channels) and **DMM12 BC** (12 channels and additional digital outputs) offer a fully digital set-up with elaborated DSP algorithms and a completely newly developed **automatic mixing function**:

- **Dynamic level adjustment:**
Clean tuning; feedback and noise interference are kept to a minimum.
- **Best mic on function:**
Suppresses comb filter effects by automatically assessing the channel with the higher level as dominant and switching off the second channel.
- **Noise detect:**
Makes use of a range of criteria for identifying incoming signals as noise signals (applause, fans, air-conditioning units) with the advantage that these noise signals are not interpreted as activation criteria for increasing volume, and microphones are only adjusted when it is really necessary.
- **High-quality signal processing:**
For professional use.
- **Clearly arranged controls:**
For safe, effective work with the unit.
- **Up to ten units cascadable:**
Almost limitless possibilities for big productions (up to 120 microphones).

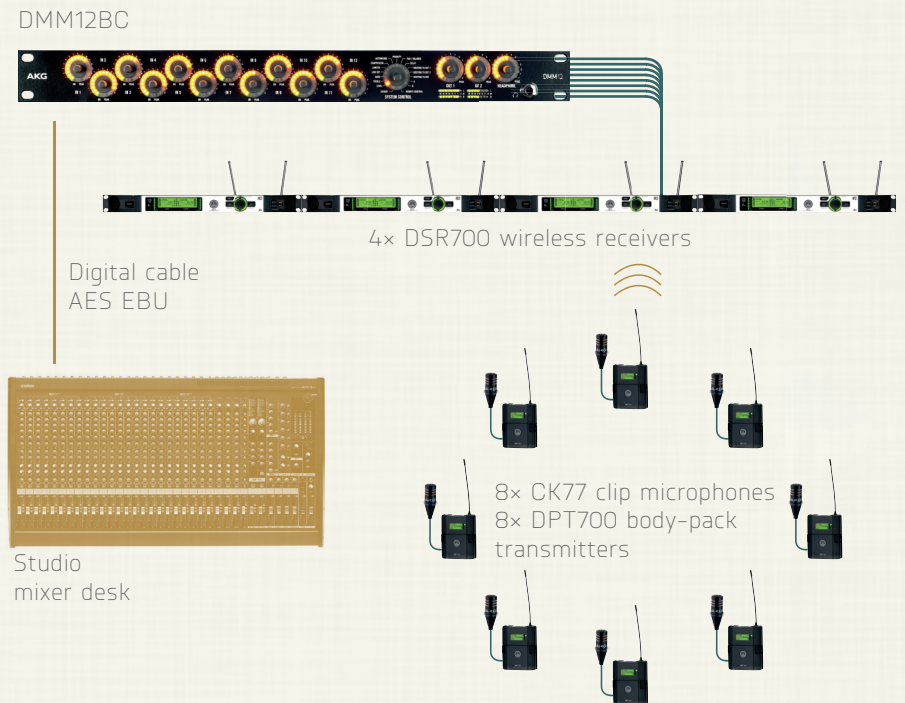




DMM application examples

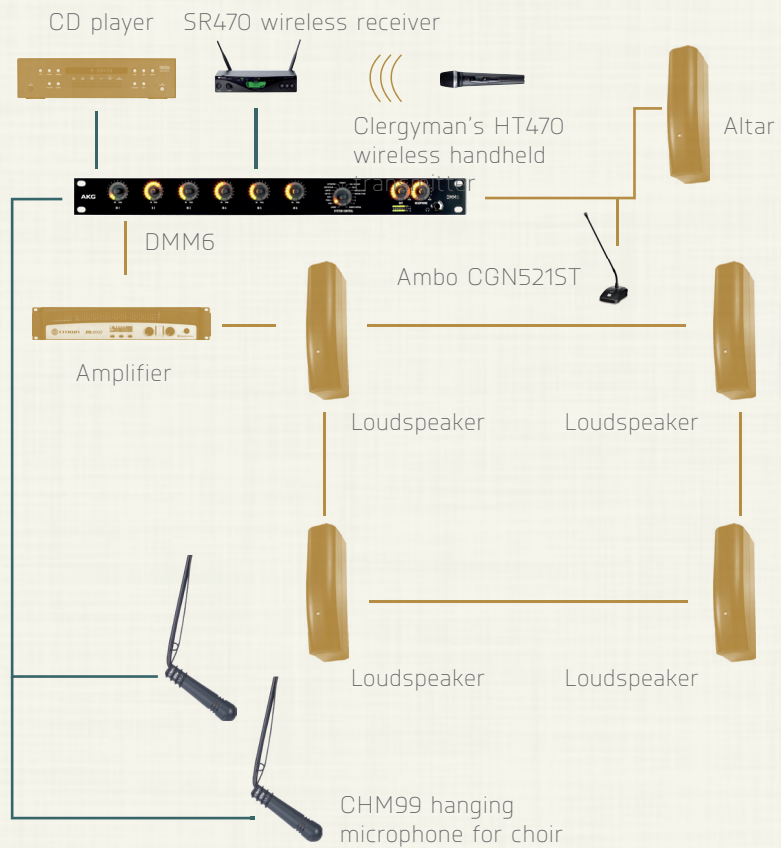
Example 1: TV round-table discussion

- Open channels are reduced to minimise possible noises in the studio
- High reaction speed with no loss of control
- Simple operation and convenient assignment. Never miss an interjection!



Example 2: Church

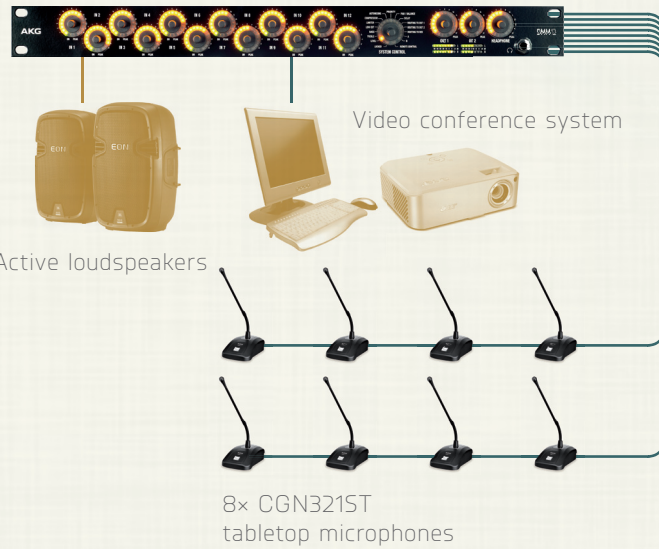
- Massive reduction in church echo
- Very easy operation
- Possible to adjust sound runtime to second row of loudspeakers – superb audio quality



Example 3: Video conference

- Mix minus setting possible – echo-free communication
- Compressor balances differing voice volumes
- Limiter enables optimal signal for conference system

DMM12



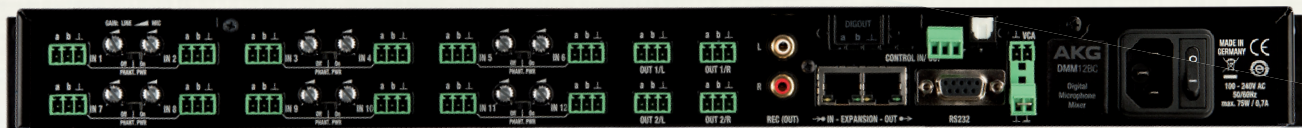
DMM models



DMM12 | FRONT PANEL



DMM12BC | CONNECTIONS (BROADCAST VERSION)



DMM6 | FRONT PANEL



DMM6 | CONNECTIONS



DMM12

Number of Input Channels:	12x: Line, Mic, Aux, mono, Phoenix Type
Phantom Power:	+48V, max 10mA per input
Type:	symmetrical
Level:	-60dBu to 0dBu
FRQ Range:	+/-3dB: 20Hz - 20kHz
THD&N:	< 0.1%
Noise Level (22Hz-22kHz, QPK):	<-120dBu
Dynamics:	> 100dB
Distortion Headroom:	20dB
S/N (22Hz-22kHz, RMS, A-Filter):	>90dB

Selectable functions

- Level
- Treble
- Bass
- Low cut
- Limiter
- Compressor
- Auto-mixing
- Priority
- Pan/balance
- Routing to Out 1
- Routing to Out 2
- Routing to REC
- (Routing to Digital Out)
- NOM attenuation
- Limiter
- Delay
- (12-band graphic EQ)

DMM6

Number of Input Channels:	6x: Line, Mic, Aux, mono, XLR
Phantom Power:	+48V, max 10mA per input
Type:	symmetrical
Level:	-60dBu to 0dBu
FRQ Range:	+/-3dB: 20Hz - 20kHz
THD&N:	< 0.1%
Noise Level (22Hz-22kHz, QPK):	<-120dBu
Dynamics:	> 100dB
Distortion Headroom:	20dB
S/N (22Hz-22kHz, RMS, A-Filter):	>90dB

Selectable functions

- Level
- Treble
- Bass
- Low cut
- Limiter
- Compressor
- Auto-mixing
- Priority
- Pan/balance
- Routing to REC
- Routing to Out
- Delay



Find out more
about the DMM system here





Tabletop microphone systems

You have the floor

Due to their heavy-duty table stands, the CGN321 STS and CGN521 STS deliver excellent stability coupled with superb shock-absorbing properties. The sophisticated matt-black design is complemented by an LED status display and rounded off by the slim goosenecks in two different sizes (CGN521 / CGN321, 50 and 30 cm long, respectively).

The microphone capsules possess cardioid characteristics, making them especially suitable for rooms with a strong echo and for speakers positioned some distance from the microphone. Cardioid characteristics are also helpful if loudspeakers are directly facing the microphone. Extremely rugged in construction, the selector switch can be programmed for the following functions:

- Push on/off
- Push to mute
- Push to talk
- Base cut

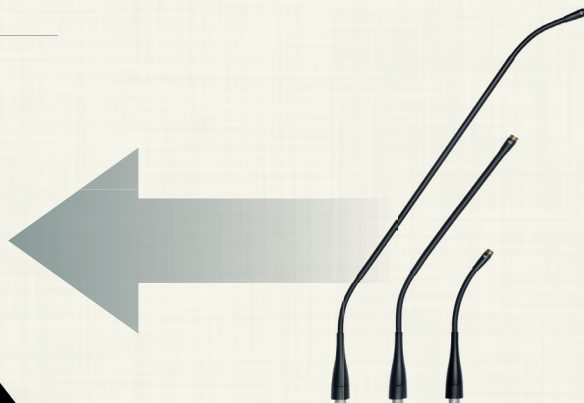
CGN521 STS

CGN321 STS



For firm positions

STS DAM+



DAM+
GOOSENECK MICROPHONES

The ST series is the professional stand solution for all DAM+ modules. The DAM+ series is probably the best gooseneck microphone series currently available on the market.

The STS DAM+ provides the ideal tabletop solution for the high-quality series with integrated phantom power adapter and a switch that can be programmed for the following functions:

- Push on/off
- Push to mute
- Push to talk
- Base cut

It is certainly worth taking a look at the DAM+ series on the AKG website:



ST6

The ST6 provides the perfect base for all XLR microphones and, due to its heavy weight, it is a firm and stable stand, suitable for all types of meetings. Compatible with all XLR microphones, the ST6 is a great all-rounder with almost limitless applications.





Wireless tabletop microphone systems

Ultra-light construction
and the freedom of
wireless combinations



Find out more about the
AKG wireless system here



STSDAM+ WL
wireless tabletop tripod



CBL31 WLS
wireless pressure zone
microphone



1



When the frequencies on the body-pack transmitter and receiver have been defined, the transmitter has to be connected to the AKG STS DAM+WL via mini-XLR.

2



The transmitter is placed in the housing, AA batteries are inserted and the housing closed.

3



It is still possible to operate the transmitter even when the cover is closed. This activates the base unit.

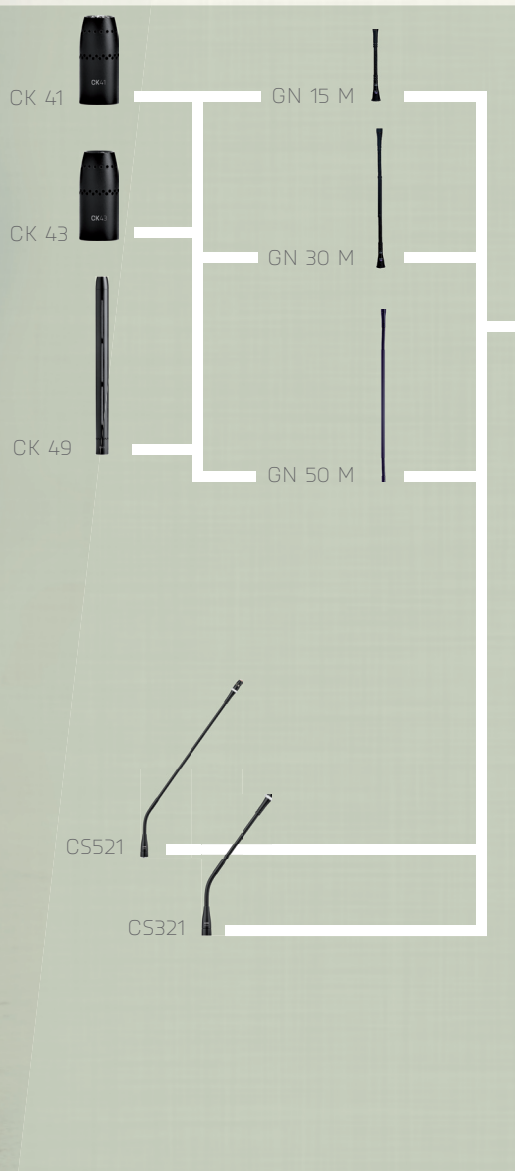
4



A brief press activates the microphone. The LED bar and a light ring on the gooseneck signalise that the microphone is active. A second press deactivates the microphone without switching off the transmitter.

Modular and flexible

Microphones



Tabletop system



Wireless transmitters + receivers



AKG

More information about our conference, speech and transmission systems, additional components for the product groups shown here, and further information about current applications can be obtained from your nearest specialist AKG dealer or on our website.

www.akg.com

We are, of course, happy to assist at any time with any further questions, the planning of your individual requirements and any technical matters. Simply contact us – our field representatives will be pleased to discuss the matter with you personally at your premises.

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