

CU 6011

DCS 6000 High Power Central Control Unit



Configuration

CU 6011

The Central Control Unit (CU) powers and controls the conference units, mixes the audio, distributes simultaneous interpretation language channels and conducts voting sessions. The High Power CU can power approximately 150 conference units. The standard control capacity of 50 delegate units with 4 language channels can be expanded with feature licenses to 3,800 units with 32 languages. System settings such as operating modes (Automatic, FIFO, Manual and VOX) are accessible via the menu on the front of the CU.

A PC or 3rd party control device (AMX/Crestron) can be connected to the Central Control Unit to bring greater sophistication to the conference. In the event of PC failure, the Central Unit will revert to its stand-alone operation mode, enabling the conference to proceed.

The CU features four (4) RJ-45 outputs for DCS-LAN chains and has one (1) balanced audio input (line level) and one (1) balanced audio output (line level) which can be configured as; Mic In, Recording Out, Mix-Minus or Insertion. Multiple CU 6011 units can be combined for room combining or to create larger systems.

Highlights

- 32 high quality audio channels (4 standard).
- Cost-effective structured Cat-5e cabling.
- Expandable to 3,800 units (50 units standard).
- LCD on central unit for easy set-up.
- AMX/Crestron integration.
- Optional automatic mixing mode w/configurable threshold and release time.
- Up to 8 open microphones.
- Pan-tilt-zoom camera control.

Includes

CU 6011
19" rack mount hardware
System installation manual
Line cable
Five (5) RJ-45 termination plugs

Used With

CU 6011	SW 6080	DM 6010 P	EC 6000-03
EX 6010	SW 6085	DM 6060 P	EC 6000-05
AO 6004	SW 6086	DM 6070 P	EC 6000-10
AO 6008	SW 6090	CM 6070 P	EC 6000-20
PS 6000	SW 6232	DM 6090 P	EC 6000-30
RP 6004	SW 6901	CM 6090 P	EC 6000-50
JB 6002	SW 6910	DC 6990 P	CO RJ45
JB 6004	SW 6911	AM 6040	M-5.2
SW 6000	SW 7001	DM 6060 F	CO RJ45 F
SW 6005	FL 6000 1B	CM 6060 F	DT 6008
SW 6008	FL 6000 1C	DM 6510 F	DT 6032
SW 6010	FL 6000 2A	DM 6560 F	
SW 6012	FL 6000 2B	CM 6660 F	
SW 6015	FL 6000 2C	MU 6040 D	
SW 6018	FL 6000 3A	MU 6040 C	
SW 6020	FL 6000 3B	MU 6042 D	
SW 6032	FL 6000 3C	DV 6501 F	
SW 6050	FL 6000 4A	CS 6032 FHB1	
SW 6060	FL 6000 4B	IS 6132 P	
SW 6062	FL 6000 4C	EC 6000-0.5	
SW 6070	FL 6000 5-8	EC 6000-01	
SW 6071	FL 6000 5-16	EC 6000-02	

	Specifications	CU 6011
Audio Performance	System Frequency Response	50 Hz - 15 kHz
	THD at Nominal Level	<0.1%
	Cross Talk Attenuation	
	Dynamic Range	
	Signal-to-Noise Ratio	>85 dBA
	Audio Input	
	Audio Output	

Controls & Indicators	Power Switch	Mains on/off switch on the front panel
	LCD	4x 20 Character LCD display for status info and configuration
	Menu Push Buttons	Four (4) push buttons for menu navigation and selection
	Audio Control Push Buttons	Four (4) push buttons for quick menu selection
	LEDs	One (1) red fault indication Four (4) green power indication (back of unit)

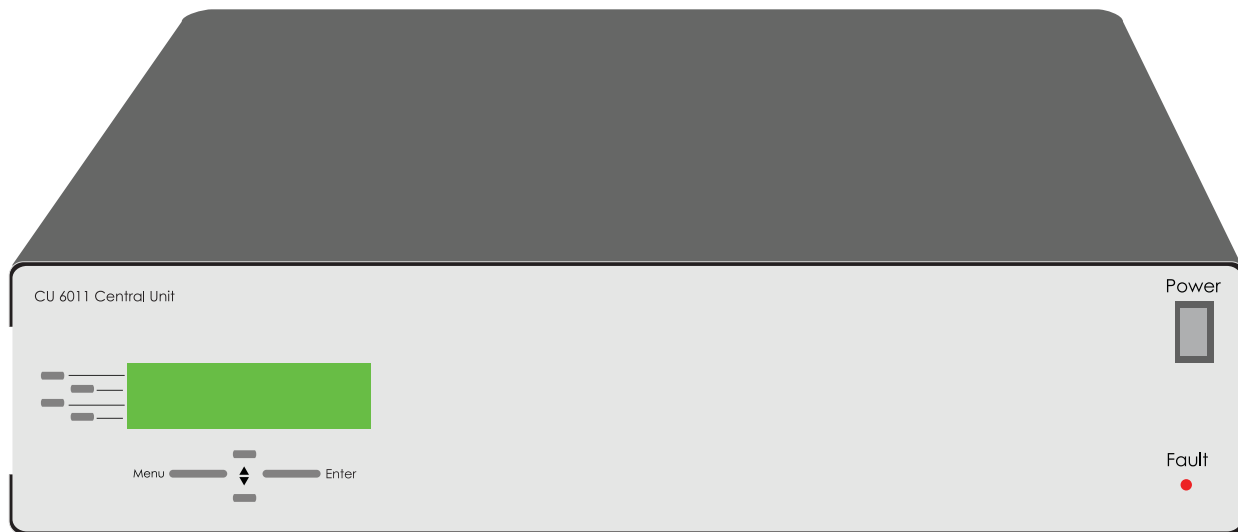
Interconnections	Main Socket	Euro main s socket with built-in fuse, matching mains cable 5.58 ft. (1.7 m) included.
	DCS-LAN	Four (4) RJ45 porst for connection of a chain of delegate stations and/or extension power supplies
	Audio Inputs	One (1) XLR balanced audio input, Nominal +6 to -30 dBm (1.5V - 25V RMS)
	Audio Outputs	One (1) XLR balanced audio output. Nominal -8 dBm
	Serial Ports	One (1) D-sub DB9 female RS-232 and one (1) RS-422 D-sub DB9 male serial data connectors for PC, 3rd party control device connection (RS-232 and RS-422 cannot be used simultaneously).

Power	Supply Voltage	100 - 240V. 50 - 60Hz
	Power Consumption	600W
	DCS-LAN System Supply	125W / 48V per chain

Physical	Dimensions (H x W x D)	3.5 x 16.7 x 12.5 in. (88 x 475 x 317 mm)
	Color	Black w/silver
	Unit Weight	13.7 lbs. (6.2 kg)
	Shipping Weight	14.0 lbs (6.80 kg)
	Mounting	Free-standing or mounted in a 19" rack

Capacity	Control	50 microphone units without license, 3,800 with license 150 IS 6132 P interpretation stations Unlimited CS6032 channel selectors
	Power	Up to 320 MU 6040 flush mount stations Up to 168 DM/CM 60x0 P table top microphones Up to 216 IS 6132 P Interpretation stations Up to 440 CS 6032F channel selectors

** Specifications are subject to change without notification



Accessories



EC 6232-01

DIS D-sub DB9 RS232 Cable 39.37 in. (1 m)

RS232 extension cable to connect the DCS 6000 central control unit to a PC or an AMX/Crestron control device. It is also used to inter-connect multiple CDS 4000 central control units together or a CU to a MC 4000 Microphone Control Panel.



EC 6232-02

DIS D-sub DB9 Cable 6.6 ft. (2 m)

RS232 extension cable to connect the DCS 6000 central control unit to a PC or an AMX/Crestron control device. It is also used to inter-connect multiple CDS 4000 central control units together or a CU to a MC 4000 Microphone Control Panel.



EC 6232-05

DIS D-sub DB9 Cable 6.6 ft. (2 m)

RS232 extension cable to connect the DCS 6000 central control unit to a PC or an AMX/Crestron control device. It is also used to inter-connect multiple CDS 4000 central control units together or a CU to a MC 4000 Microphone Control Panel.



EC 6232-10

CDS 4000 Extension Cable Assembly 6.6 ft. (2 m)

Extension cable, designed to connect the central control unit to conference units or to interconnect delegate units when the standard 6.6 ft. (2 m) cable affixed to the conference unit is not long enough. Provides an additional 6.6 ft. (2 m).



AO 6004

DCS 6000 4-Channel Analog Output Module

The AO 6004 Audio Output Unit outputs four (4) floor or language channels to IR language distribution systems, RF transmitters, recording and/or web-streaming devices. By default the channels 0-3 are selected but the audio properties and channels can be changed by the SW 6000 on a PC. The units can be easily daisy-chained in the DCS-LAN with shielded FTP or STP Cat5e cables (sold separately). The AO 6004 can be free-standing, mounted in a 19' rack or into the CU 6005 expansion slot.



FL 6000 1B

DCS 6000 Feature License to Connect 100 Conference Units

The License to Connect Conference Units enables the central control unit (CU) to control more than 50 delegate units. The 1B, 1C, 1D and 1E licenses enable control of respectively 100, 500, 1,000 and 3,800 delegate units. The 1D and 1E Feature Licenses are only available for the CU 6011.



FL 6000 1C

DCS 6000 Feature License to Connect 500 Conference Units

The License to Connect Conference Units enables the central control unit (CU) to control more than 50 delegate units. The 1B, 1C, 1D and 1E licenses enable control of respectively 100, 500, 1,000 and 3,800 delegate units. The 1D and 1E Feature Licenses are only available for the CU 6011.

Accessories (cont.)



FL 6000 2A

DCS 6000 Feature License Audio Encryption for 50 Conference Units

The Encrypted Sound feature license enables the central control unit (CU) to send and receive encrypted digital sound to and from the delegate units. The 2A, 2B, 2C, 2D and 2E licenses enable encrypted audio for respectively 50, 100, 500, 1,000 and 3,800 delegate units. The 2D and 2E Feature Licenses are only available for the CU 6011



FL 6000 2B

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FL 6000 2B

DCS 6000 Feature License Audio Encryption for 500 Conference Units

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FL 6000 3A

DCS 6000 Feature License Voice Activation for 50 Conference Units

The Voice Activation (Vox) feature license enables voice activated (gated) operation of the delegate units as an additional operating mode. The 3A, 3B, 3C, 3D and 3E licenses enable voice activation for respectively 50, 100, 500, 1,000 and 3,800 delegate units. The 3D and 3E Feature Licenses are only available for the CU 6011.



FL 6000 3B

DCS 6000 Feature License Voice Activation for 100 Conference Units

The Voice Activation (Vox) feature license enables voice activated (gated) operation of the delegate units as an additional operating mode. The 3A, 3B, 3C, 3D and 3E licenses enable voice activation for respectively 50, 100, 500, 1,000 and 3,800 delegate units. The 3D and 3E Feature Licenses are only available for the CU 6011.



FL 6000 3C

DCS 6000 Feature License Voice Activation for 500 Conference Units

The Voice Activation (Vox) feature license enables voice activated (gated) operation of the delegate units as an additional operating mode. The 3A, 3B, 3C, 3D and 3E licenses enable voice activation for respectively 50, 100, 500, 1,000 and 3,800 delegate units. The 3D and 3E Feature Licenses are only available for the CU 6011.



FL 6000 4A

DCS 6000 Feature License Voting for 50 Conference Units

The Voting feature license enables parliamentary voting by delegate units. The 4A, 4B, 4C, 4D and 4E licenses enable voting for respectively 50, 100, 500, 1,000, and 3,800 delegate units. The 4D and 4E Feature Licenses are only available for the CU 6011.

Accessories (cont.)



FL 6000 4B

DCS 6000 Feature License Audio Encryption for 100 Conference Units

The Voting feature license enables parliamentary voting by delegate units. The 4A, 4B, 4C, 4D and 4E licenses enable voting for respectively 50, 100, 500, 1,000, and 3,800 delegate units. The 4D and 4E Feature Licenses are only available for the CU 6011.



FL 6000 4C

DCS 6000 Feature License Audio Encryption for 500 Conference Units

The Voting feature license enables parliamentary voting by delegate units. The 4A, 4B, 4C, 4D and 4E licenses enable voting for respectively 50, 100, 500, 1,000, and 3,800 delegate units. The 4D and 4E Feature Licenses are only available for the CU 6011.



FL 6000 5-8

DCS 6000 Feature License Interpretation for 8 Channels

The Interpretation feature license increases the number of available language interpretation channels beyond the basic 4 channels in the DCS 6000 system. The 5-8, 5-16 and 5-31 licenses enable 8, 16 and 31 language interpretation channels. the 5-31 Feature License is only available for the CU 6011.



FL 6000 5-16

DCS 6000 Feature License Interpretation for 16 Channels

The Interpretation feature license increases the number of available language interpretation channels beyond the basic 4 channels in the DCS 6000 system. The 5-8, 5-16 and 5-31 licenses enable 8, 16 and 31 language interpretation channels. the 5-31 Feature License is only available for the CU 6011.



FL 6006 6

DCS Feature License Voting Protocol at RS232 Interface

The Voting protocol at RS 232 interface feature license enables a third party control device such as AMX/Crestron to run voting sessions on the DCS 6000 system. The FL 6000 6 license is only available for the CU 6011.

FAQ's

- Q** What's the difference between the CU 6005 and the CU 6011?
- A** The CU 6005 has two (2) DCS-LAN chains, the CU 6011 has four (4) DCS-LAN chains and provides four times as much power. The CU 6011 has a maximum capacity of 32 language channel as opposed to the CU 6005's max capacity of 16 language channels. Only the CU 6005 has an expansion slot for the 4 channel AO 6004 unit and only the CU 6011 allows for direct control of voting sessions by AMX/Crestron.
- Q** How many microphones can be connected to a single CU 6005?
- A** 50 without a license, 500 with a license.
- Q** How many microphones can be connected to the CU 6011?
- A** 500 without a license, 3,800 with a license.
- Q** Do I need software to use the voting feature?
- A** Software is required to handle the voting, results, display etc.
- Q** How many microphone units can be powered by the CU?
- A** The total number of units that can be powered is based on cable length, type of CU and the type of unit being connected. To each CU 6005 you can typically power about 40 delegate/chairman units, 70 flush mount units, or 50 interpreter Sets. More units can be added with extension power supplies. To each CU 6011 you can typically power about 150 delegate/chairman units, 300 flush mount units, or 150 interpreter Sets. More units can be added with extension power supplies. Contact Listen Technical Support for more information.
- Q** What additional equipment is needed to mount the CU in a 19" rack?
- A** Nothing, the rack mounting equipment is included with the CU.
- Q** How far can the daisy chain cabling go?
- A** 200 meters without any repeaters. Up to 640 meters with repeaters and further when using optical cables. Contact Listen tech support for more information. The CDS 4000 is a discussion system only. The mixed floor channel from the CDS 4000 will need to be connected to a separate Interpretation system.
- Q** Can I mix and match different microphone styles with the system?
- A** Yes, all the DCS 6000 units with a loop through (all except the DT/IT) can be connected in parallel or serial configurations.
- Q** Is the cabling proprietary cabling?
- A** No, but it must be shielded Cat-5 (FTP /STP). Depending on the specification, higher shielded CAT cables can be used for extension cables as well.
- Q** Does the system work with third party control companies such as AMX or Crestron?
- A** Yes, However the ECA SW 6232 software is recommended.

FAQ's

Q Is it possible for the Interpreter Set to act as a delegate unit and insert audio to the floor?

A No

Q Can I install DCS software on two or more PCs?

A Yes, unlimited in a LAN

Q Can I use a conference system without chairman unit?

A Yes you can, however, there will not be any priority function available. The chairman will not be able to manage the microphone system.