

**DIGITAL CONFERENCE AMPLIFIER**

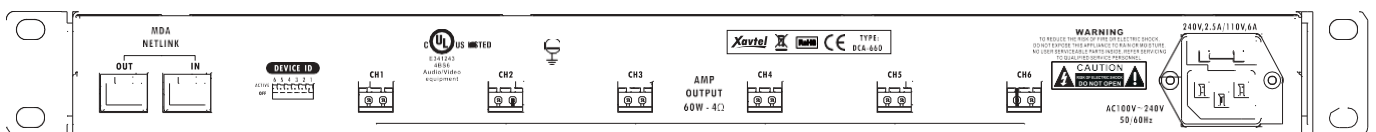
**DCA660**

**DCA660 OVERVIEW**

The DCA660 is a digital 6 channel distribution amplifier which comes with 6x60W of power on a 4 Ohm load. Up to 64 units can be daisy chained via standard CAT5/6 cable to the DCP1000 DSP processor. The different ID numbers of each DCA660 will be set via the DIP switch located on the rear side of each amplifier. The DCA660 also has all necessary protection circuits on board to detect the issue of overload or overheat and protect the device against all potential hazards. The overload or overheat LEDs will light up when this status might occur. The DCA660 comes with extra DSP power and will provide the industry first Auto-Mix-Minus-Calibration function of the Senator system. This unique function will automatically adjust the suitable parameters to prevent the feedback of the system for every room. The additional DSP also includes Gain Sharing Auto Mixers, 5 Band PEQ, Feedback Suppressor and Delay for each of the 6 amplifier channels. Due to the fact that Xavtel uses a proprietary digital audio protocol to connect the DCA660 via the MDA Link connection, the distance between the DCP1000 and each connected DCA660 amplifier can be up to 100m, this will allow for the most flexible and distant installations. Plus, there is no more AD/DA conversion, all audio signals will stay in the digital domain.

**FEATURES**

- Connect up to 64 DCA660 units to a single DCP1000 processor
- Fully digital audio link to the DCP1000 processor
- Additional DSP functions like Gain-Sharing Auto Mixer, 5 Band PEQ, Feedback Suppressor and Delay
- Industry first Auto-Mix-Minus-Calibration for every room setup
- LED indicators to recognizing each amplifiers channel status



Rear Panel

## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The DCP1000 is the digital DSP controller of the Senator system. It has 2 CDM-Net-Loop card slots: One card is on board, and the other optional card can expand the system to 2 redundant loops for up to 504 Delegate Units, connecting thru the DDB-104 digital Mic Junction Box via CAT5/6 or Fiber Optic cables. Using the digital link(MDA) between DCP1000 and DCA660 distribution amplifiers allows to cascade up to 64 units via CAT5/6. The DCP1000 supports multiple interfaces like USB2.0 connector(recording), XLR balanced line In/Out, RCA stereo line In/Out, RS485, RS232 and an RJ45 Ethernet port. Audio recording, 3rd party control, even controlling PTZ cameras can be easily handled.

In addition, the DCP1000 processor integrates the DSP functions such as Voice Activated Gate, AEC, PEQ, AGC, Feedback Suppressor, Hi/Lo Pass Filter. Each of them can be adjusted, stored and processed individually for every connected microphone. Moreover, with the optional AEC- Card (Acoustic Echo Cancellation) installed, the Senator system is capable to use VoIP and SIP functionality for distance and web-conferencing applications. The outstanding function of Auto-Mix-Minus calibration in conjunction with the DCA660 amplifier makes the Senator system a very unique and ease of use and setup. Multi-purpose conference, presentation, meeting, distance and web-conferencing system will all functions and fully integrated.

Electrical	
Mains power	100 ~ 240 VAC ± 10 %, 50/60 Hz
Nominal output power	60W x 6 channels
Power consumption	500W
Maximum supply	500W
Frequency response	20 Hz ~ 20 kHz @ -3 dB
THD+N	0.2 % (20 Hz ~ 20 kHz @ -3dBu)
Sampling	
A/D-D/A converts	24 Bit
Sample rate	48 kHz
Crosstalk(Between Channels @ 1 kHz)	
< -50 dB @ 26 dB Gain, 0dBu In	

Front Panel	
Amp channel LED for status x 6	
Amp channel LED for signal x 6	
Power LED and digilink LED	
Rear Panel	
RJ45 connector for MDA network	
Device ID for DCA660 identification	
Euro block connector x 6 for loudspeaker	
AC power connector with 5A fuse	
Dimension & Weight	
Width	19"(482 mm)
Height	10-1/5"(260 mm)
Depth	1-3/4"(44 mm)
Weight	7.7 lbs(3.5 kg)
Color	
PANTONE 7546C	
Maximum Connection length	
328 ft(100m) for CAT5 cable	
Environment	
Operating temperature	32°F ~ 104°F(0°C ~ 55°C)
Storage temperature	-40°F ~ 158°F(-40°C ~ 70°C)
Relative humidity	5 % ~ 70 % noncondensing
Certifications	
CE marked, UL listed, RoHs compliant	