Cary Audio Design DMC-600SE Digital Music Center RS-232 Protocol and Control Details

Com Port Setup:

Use standard communications settings. The default that most devices use/accept is:

Baud Rate	: 9600 bps
Data Bits	:8
Parity	: None
Stop Bits	: 1 bit
Handshaking	: None

Com Port Pin Configuration:

Use standard pin configuration. A configuration that allows direct connection to a PC via 9-pin straight through serial cable is best. Use of only 3 pins(Transmit, Receive, Ground) is best.

9 pin female D connector

Pin 2 = Transmit Pin 3 = Receive Pin 5 = Ground

Command Packets :

The Command Packets are provided for the Host Controller request to the DMC-600SE to perform a specific action.

Start character:'@'COMMAND:see Data Packet 'COMMAND List'.PARAMETERS:see Data Packet 'PARAMETERS List'.End character (CR):0Dh

Start	COMMAND	PARAMETERS	End
'@'			0Dh

Status Feedback Packets:

The DMC-600SE will send to the HOST asynchronous status packets when applicable DMC-600SE status changes.

Start character	:	'R'
Answer character	:	see Data Packet 'Status Answer List'.
End character (CR)	:	0Dh

Start Query COMMAND	Query PARAMETERS	End 0Dh
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RS232-Interface Usage Details:

The RS-232 interface has a first-in-first-out (FIFO) buffer which will allow each command to be received in direct succession. Commands are executed in the order in which they are received with approximately a 1/2 second delay between each command. If a longer string of commands is necessary, a minimum of 1/2 second delay should be added before sending additional commands.

DMC-600SE will send a NAK Response packet if the DMC-600SE has received an incorrect HOST command packet.

Start character : '@' NAK

: ERR

End character (CR) : 0Dh

Start	NAK	End
'@'		0Dh

		Specific Commands		
Command	Parameters	Description		
POWE	х	Set Power on/off		
		where $x = 0,1$ (off, on)		
Auto status An	swer Comma	nd will send when status changes: POWEx		
SOUR	х	Set Source input selection		
		where x = 0,1,2,36 (0=CD, 1=OPTICAL, 2=COAXIAL 1, 3=COAXIAL 2, 4=AES/EBU,		
		5=BLUETOOTH, 6=PC-USB)		
Auto status An	swer Comma	nd will send when status changes: SOURx		
MUTE	х	Set Mute/un-mute the output		
		where $x = 0,1$ (un-mutes, mutes)		
Auto status An	swer Comma	nd will send when status changes: MUTEx		
VOLU		Set increase volume (similar to vol up on remote)		
Auto status An	swer Comma	nd will send when status changes: VOLU		
VOLD		Set decrease volume (similar to vol down on remote)		
Auto status An	swer Comma	nd will send when status changes: VOLD		
TUBE	х	Set Tube output selection		
		where $x = 0,1$ (0=solid state mode 1=tube output mode)		
Auto status An	swer Comma	nd will send when status changes: TUBEx		
SRC	х	Set SRC selection		
		where $x = 0,1$, (0=no change, 1=next step)		
Auto status Answer Command will send when status changes: SRCx				
CLOC	х	Set Clock in input on/off		
		where $x = 0,1$ (off, on)		
Auto status An	swer Comma	nd will send when status changes: CLOCx		
BRIG	х	Set front panel display intensity		
		where x = 0,1,2,3 (0=off, 1=low 2=med 3=hi)		
Auto status An	swer Comma	nd will send when status changes: BRIGx		

CD Player Commands

Command	Parameters	Description
OPCL		CD tray OPEN or CLOSE
Auto status Ans	swer Comma	nd will send when status changes: OPCL
PLAY		Start play the Disc
Auto status Answer Command will send when status changes: PLAY		
STOP		Stop play the Disc
Auto status Answer Command will send when status changes: STOP		
PAUS		Interrupt play and resume play

Auto status Answer Command will send when status changes: PAUS			
PREV	REV Jump to the start of the previous track		
Auto status Ar	nswer Comma	ind will send when status changes: PREV	
NEXT		Select another track during play	
Auto status Answer Command will send when status changes: NEXT			
NUMB	х	Use the number to select the desired track. Playback starts from the selected track	
		where x = 0,19 (0=0, 1=1, 2=2, 3=3, 4=4, 5=5, 6=6, 7=7, 8=8, 9=9)	
Auto status Answer Command will send when status changes: NUMBx			
REPE	х	Repeat play when playing	
		where $x = 0,1, 2$ (0=time to clear, 1=single track, 2=time to repeat ALL)	
Auto status Answer Command will send when status changes: REPEx			
TIME		Display the remaining time of a track or total time on VFD display	
Auto status Answer Command will send when status changes: CD 0:00:00			