

ARCAM

DELTA 250 CD TRANSPORT
DELTA 270 CD PLAYER
HANDBOOK

TECHNICAL SPECIFICATIONS

Delta 270

Conversion System	Hybrid 18 bit DAC Upper bit range multi-bit Lower bit range single-bit
Dynamic range	108dB
Signal to noise ratio (CCIR)	103dB
Harmonic distortion (0dB)	0.005%
Frequency response (± 0.2 dB)	1Hz - 20kHz
Output level (0dB)	2.3V RMS
Output impedance	22ohms
Minimum recommended load	1Kohm
Supplied accessories	remote control handset (inc batteries) mains lead

Delta 250 / 270

Digital outputs	IEC 958 standard, SPDIF format
Power consumption	30VA
Size W/D/H mm.	430 x 275 x 95
Weight	4.4kg nett. 5.6kg packed
Supplied accessories	AudioQuest video X digital cable Remote control handset (inc batteries) mains lead

INSTALLATION

- ① Check that your mains supply voltage agrees with the voltage setting indicated on the rear panel of the unit.
- If your mains supply voltage is different, consult your Arcam dealer.

MAINS SAFETY

- This product is normally supplied with a moulded mains plug already fitted to the lead. If for any reason the plug needs to be removed, **it must be disposed of immediately and securely**, as it is a potential shock hazard when inserted into a mains socket.
- If the plug is removed then the remaining lead must be rewired as follows:
 - The **blue** wire must be connected to the terminal which is coloured **blue** or marked with the letter **N**.
 - The **brown** wire must be connected to the terminal which is coloured **brown** or marked with the letter **L**.
 - The **green and yellow** wire must be connected to the terminal which is coloured **green and yellow**, or marked with the letter **E** or the safety earth symbol.
 - When replacing the fuse in the supplied moulded mains plug, the integral fuse holder/cover must always be refitted.
 - **Warning:** This apparatus must be earthed.

MAINS SUPPLY CONNECTIONS

- ② Insert the IEC line socket of the mains lead fully into the power inlet socket on the rear panel. Connect the other end to your mains supply.

- For optimum sonic performance, the analogue power supply of the CD player is kept powered up all the time the unit is connected to the mains supply. The front panel power switch powers down all other circuitry leaving the analogue sections in "standby".

This means that even though the power switch is off, it may be possible to hear a slight residual hum emanating from the mains transformer inside the CD player. This is perfectly normal. If the unit is to be left unused for an extended period, we recommend that it is disconnected from the mains supply by switching it off at the wall socket.

DELTA 270 ONLY DIGITAL AND AUDIO CONNECTIONS

- ③ **DIGITAL OUTPUTS** - For use with a separate digital to analogue converter (DAC) or digital recorder. Connect to the unit's digital input using a suitable digital cable. Both outputs are identical and can be connected simultaneously if necessary.
- ⑦ **AUDIO OUTPUT** - Connect to your amplifier's CD or AUX input using a suitable interconnect cable.
 - Insert the red phono plugs into the sockets labelled 'R' and the other plugs into the sockets labelled 'L'.

DELTA 250 ONLY

DIGITAL CONNECTIONS

The Delta 250 is fitted with a choice of 3 digital connectors. Use the appropriate connector for your DAC.

- ③ PHONO OUTPUT - Connect to the DAC's digital input using a suitable digital cable. Both outputs are identical and can be connected simultaneously if necessary.
- ④ BNC OUTPUT - Connect to your DAC's BNC digital input (if fitted) using a suitable digital cable. This output generally gives better results than output ③.
- ⑤ OPTICAL OUTPUT - Connect to your DAC's optical input (if fitted) using a suitable Toslink type optical cable. You should try digital outputs ③, ④ and optical output ⑤ to determine which you prefer.
- ⑥ SYNC LOCK INPUT - Connect to an Arcam Black Box fitted with the Sync Lock facility using a suitable Toslink type optical cable. The Sync Lock connection synchronises the Delta 250 and the Black Box automatically. The Sync Lock led (light emitting diode) on the Black Box's front panel will confirm this.
Using the Sync Lock connection removes the timing errors generated in the digital signal connections, and should be used in order to achieve the very best sound quality.
- ⑦ PORT FOR AT&T OPTICAL OUTPUT MODULE - The AT&T optical system offers superior sound quality compared to the Toslink system due to its wider bandwidth. It has the advantage over the co-axial outputs by being virtually interference free.

It can rival, and in many cases surpass the quality of the co-axial outputs. If your DAC is fitted with an AT&T input you may wish to take advantage of its benefits. The AT&T module is available as an optional extra, and can be supplied and fitted by an Arcam dealer.

OPERATION

- ⑧ DISC DRAWER - Accepts both 8 cm and 12 cm discs. Place the disc in the tray label side uppermost.
- ⑨ LOAD - Opens and closes the disc drawer. The drawer can also be closed by gently pushing it in approximately 5mm. The drawer will then close by itself and engage PLAY mode (if a disc is loaded).
- ⑩ PLAY - Press to play a disc or programmed selection. Pressing PLAY when the disc is already playing will restart the same track. To restart the disc from track 1, press STOP and then PLAY.
- ⑪ STOP - Press once to stop the disc. Pressing STOP twice will cancel selections programmed into the memory.
- ⑫ PAUSE - Press to pause the disc. Press PAUSE again to resume play.
- ⑬, ⑭ << >> - To search for a particular passage during play, press << or >>.
- ⑮ FAST - For fast search press FAST ('FAST' will appear on the display). Now press << or >> to engage fast search.

17, 18 **TRACK SELECT** - To begin play at a desired track, press **◀** or **▶** to locate the desired track then press **PLAY**.

To select another track during play, press **◀** or **▶** to locate the track. The player will automatically select **PLAY** mode.

19 **PROG** - Allows you to programme a selection of up to 20 tracks from a disc in any order. To programme the disc, press track select to locate the desired track(s). Press **PROG** to programme the track number(s) into the memory. Repeat this procedure to programme up to 20 tracks. Now press **PLAY**. The display will indicate the track numbers as they are programmed. When programming the disc by remote control, only the first nine tracks of the disc may be selected.

20 **REPEAT** - Allows repeat play of a single track, a programmed selection or an entire disc. When repeating a programmed selection or an entire disc, press **REPEAT** once before pressing **PLAY**. ('REPEAT' will be indicated on the display).

When repeating a single track, press **REPEAT** twice before pressing play.

('REPEAT' will flash on the display). To cancel, press **REPEAT** a third time or until 'REPEAT' goes out on the display.

21 **TIME** - Displays the elapsed time of a track ('TRACK TIME'), the remaining time of a track ('REM TRACK TIME') or the remaining time of the disc ('TOTAL REM TIME'). The display will indicate the time function selected.

22 **DISP** - Turns the display on and off. Switching the display off will generally give a small improvement in sound quality.

23 **POWER** - Switches the unit on and off.

24 **FLUORESCENT DISPLAY** - Informs you of the functions of the player. Also houses the remote receiver. Ensure this is not obscured or commands from the remote control will not be received.

OPERATION BY REMOTE CONTROL

Additional functions available on the remote control are:

- **0-9 Keypad** - Allows direct access to individual tracks on the disc. To select a track, press the corresponding keypad button(s) and then press **PLAY**.
- The keypad can also be used when programming a disc by remote control (see 19 **PROG**). Only the first nine tracks of a disc may be selected.
- **SHUFFLE** - Press to play all the tracks on the disc in a random order.
- **SCAN** - Plays the first 10 seconds of each track in sequence. The track number will be indicated on the display while **SCAN** is selected. To continue listening to a "scanned" track, press **PLAY**.
- **VOLUME** - Adjusts the volume control of Arcam amplifiers (certain models only).

Please Note: Certain functions on the remote control handset may not operate this CD player.

DELTA 250 ONLY DIGITAL CONNECTIONS

The Delta 250 is fitted with a choice of 3 digital connectors. Use the appropriate connector for your DAC.

- ③ PHONO OUTPUT - Connect to the DAC's digital input using a suitable digital cable. Both outputs are identical and can be connected simultaneously if necessary.
- ④ BNC OUTPUT - Connect to your DAC's BNC digital input (if fitted) using a suitable digital cable. This output generally gives better results than output ③.
- ⑤ OPTICAL OUTPUT - Connect to your DAC's optical input (if fitted) using a suitable Toslink type optical cable. You should try digital outputs ③, ④ and optical output ⑤ to determine which you prefer.
- ⑥ SYNC LOCK INPUT - Connect to an Arcam Black Box fitted with the Sync Lock facility using a suitable Toslink type optical cable. The Sync Lock connection synchronises the Delta 250 and the Black Box automatically. The Sync Lock led (light emitting diode) on the Black Box's front panel will confirm this.
Using the Sync Lock connection removes the timing errors generated in the digital signal connections, and should be used in order to achieve the very best sound quality.
- ⑧ PORT FOR AT&T OPTICAL OUTPUT MODULE - The AT&T optical system offers superior sound quality compared to the Toslink system due to its wider bandwidth. It has the advantage over the co-axial outputs by being virtually interference free.

It can rival, and in many cases surpass the quality of the co-axial outputs. If your DAC is fitted with an AT&T input you may wish to take advantage of its benefits. The AT&T module is available as an optional extra, and can be supplied and fitted by an Arcam dealer.

OPERATION

- ⑨ DISC DRAWER - Accepts both 8 cm and 12 cm discs. Place the disc in the tray label side uppermost.
- ⑩ LOAD - Opens and closes the disc drawer. The drawer can also be closed by gently pushing it in approximately 5mm. The drawer will then close by itself and engage PLAY mode (if a disc is loaded).
- ⑪ PLAY - Press to play a disc or programmed selection. Pressing PLAY when the disc is already playing will restart the same track. To restart the disc from track 1, press STOP and then PLAY.
- ⑫ STOP - Press once to stop the disc. Pressing STOP twice will cancel selections programmed into the memory.
- ⑬ PAUSE - Press to pause the disc. Press PAUSE again to resume play.
- ⑭, ⑮ ◀▶ - To search for a particular passage during play, press ◀▶ or ▶▶.
- ⑯ FAST - For fast search press FAST ('FAST' will appear on the display). Now press ◀▶ or ▶▶ to engage fast search.

⑰, ⑱ **TRACK SELECT** - To begin play at a desired track, press |◀ or ▶| to locate the desired track then press **PLAY**.

To select another track during play, press |◀ or ▶| to locate the track. The player will automatically select **PLAY** mode.

⑲ **PROG** - Allows you to programme a selection of up to 20 tracks from a disc in any order. To programme the disc, press track select to locate the desired track(s). Press **PROG** to programme the track number(s) into the memory. Repeat this procedure to programme up to 20 tracks. Now press **PLAY**. The display will indicate the track numbers as they are programmed. When programming the disc by remote control, only the first nine tracks of the disc may be selected.

⑳ **REPEAT** - Allows repeat play of a single track, a programmed selection or an entire disc. When repeating a programmed selection or an entire disc, press **REPEAT** once before pressing **PLAY**. ('REPEAT' will be indicated on the display).

When repeating a single track, press **REPEAT** twice before pressing play.

('REPEAT' will flash on the display).

To cancel, press **REPEAT** a third time or until 'REPEAT' goes out on the display.

㉑ **TIME** - Displays the elapsed time of a track ('TRACK TIME'), the remaining time of a track ('REM TRACK TIME') or the remaining time of the disc ('TOTAL REM TIME'). The display will indicate the time function selected.

㉒ **DISP** - Turns the display on and off. Switching the display off will generally give a small improvement in sound quality.

㉓ **POWER** - Switches the unit on and off.

㉔ **FLUORESCENT DISPLAY** - Informs you of the functions of the player. Also houses the remote receiver. Ensure this is not obscured or commands from the remote control will not be received.

OPERATION BY REMOTE CONTROL

Additional functions available on the remote control are:

- **0-9 Keypad** - Allows direct access to individual tracks on the disc. To select a track, press the corresponding keypad button(s) and then press **PLAY**.
- The keypad can also be used when programming a disc by remote control (see ⑲ **PROG**). Only the first nine tracks of a disc may be selected.
- **SHUFFLE** - Press to play all the tracks on the disc in a random order.
- **SCAN** - Plays the first 10 seconds of each track in sequence. The track number will be indicated on the display while **SCAN** is selected. To continue listening to a "scanned" track, press **PLAY**.
- **VOLUME** - Adjusts the volume control of Arcam amplifiers (certain models only).

Please Note: Certain functions on the remote control handset may not operate this CD player.

RADIO INTERFERENCE

- The Delta 250 and Delta 270 are digital audio devices which have been designed to very high standards of electromagnetic compatibility.
- **EC COUNTRIES:** These products have been designed to comply with directive 89/336/EEC.
- **USA:** This product complies with FCC requirements. Please refer to the Hints & Tips booklet if you suspect a radio interference problem.

SAFETY STANDARD

- These products have been designed to meet the IEC 65 international electrical safety standard.

**CLASS 1
LASER PRODUCT**

**CAUTION: INVISIBLE LASER
RADIATION WHEN THIS UNIT IS
OPENED, AVOID EXPOSURE TO BEAM**

