

ARCAM

S O U N D & V I S I O N

DV88 / DV27 Software and Drive Firmware updates CD-ROM instructions

Both the player software and DVD drive firmware may be updated by playing special CD-ROMs. If both are updated at the same time, two separate CDs are used. It is not important which is done first.

Read these instructions in full before carrying out any updates.

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Identifying the existing player and drive firmware version numbers

1. Turn the power on with no disc in the player and it connected to a display.
2. Press the "setup" button on the remote control, then enter 4 7 9 2.
3. Scroll down to the third menu line marked "version" and press the "OK" button on the remote control. The player software and drive firmware version numbers will be displayed on screen. Press "OK" and then "setup" to return to the player's splash screen.
4. Only consider updating the player if the version number(s) already installed in the player are lower than those on the update discs. Note that there are three types of drives, called LK, LO and LT - the latest firmware issues for each type are included on the drive firmware CD-ROM and the system will choose the right type automatically. If you have an older firmware disc which does not list your drive type do not attempt an upgrade.

Updating the drive firmware

Follow this procedure exactly or the drive may be irreparably damaged:

5. Turn the power off and then on again ten seconds later, with no disc in the player.
6. Wait for the 'no disc' message to appear on the display.
7. Press the LOAD button to open the tray.
8. Put the DVS firmware CD in the tray, label side uppermost.
9. Press the LOAD button to close the tray. The firmware will now load from the CD into the drive's RAM. This takes about 30 seconds.
10. Wait until the tray opens. When it does, *immediately take the CD out of the tray*. The flash memory will now be erased and the new firmware will be loaded from RAM into the drive's flash ROM. This will take a further 30 seconds approximately.
11. *Wait until the tray closes of its own accord*. This signals that the flash update is complete.
12. *Only after this has happened*, switch the power off for 10 seconds and then on again to reboot the player.

Updating your DVD player operating software

Follow this procedure exactly or the player may go dead and require physical replacement of its flash memory chips.

1. Turn the power off and then on again ten seconds later, with no disc in the player.
2. Wait for the 'no disc' message to appear on the display.
3. Press the LOAD button to open the tray.
4. Put the DV88 software CD in the tray, label side uppermost.
5. Press the LOAD button to close the tray. The player software will now load from the CD into RAM. This usually takes about 5 minutes but may take up to half an hour. You may see corruption of the TV picture during this time. This is normal.

If the player displays A BAD DISC at this point, please switch the player off, then back on again. Follow on to number 6)

6. Wait until the tray opens. When it does, *immediately take the CD out of the tray*. The flash memory will now be erased and the new software will be loaded from RAM into the flash ROM. It will take about one minute.

If updating the player with software version V1.79 please leave the disc in the player at this point and only take out when the tray opens for the second time around, as the software needs to be "read in" twice.

7. *Wait until the tray closes of its own accord*. This signals that the flash update is complete. There is no need to reboot. The software version should be shown on the TV screen momentarily every time the player is powered up.
8. Please see the Software Release notes for changes made.

Copying the discs

You may by all means make copies of the CDs, but care must be taken. Try to use a 'bit for bit' CD copying program like Adaptec CD copier, rather than just copying the files. Also, don't use fast CD burning speeds. Some CD writers use speeds of up to 8x, but they do not make a very good job of it at this speed. Use 1x speed for best results. The files are not large so it will not take long.

If you do create a disc by simply copying files (or if you want to create discs from files sent by e-mail or downloaded from the web), then follow these guidelines:

Drive firmware disc

When you create the CD it must have the following properties;

Volume label:	ATPLDR_DOWN
CD mode:	CDROM mode 1
File system:	Joliet

Include the binary file on the disc and do not change the file name. The file will be called LO9xx.bin i.e. LO914.bin for version LO14.
This will update the 'LO' type DVD drive from DVS.

Also include some other files on the disc to ensure there is at least 4MByte of data on the disc. This is required because sometimes the DVD drive has problems reading CDs that have small amounts of data on them.

Player software disc

The CD properties are not important as with the drive firmware disc. Include the files DVD8.BIN, DVD8.BAK and CRC.TXT (*do not change the file names*). The file names do not change, regardless of the software version.

If something goes wrong

If the procedures above are carried out correctly, there should not be any problems. While updating the software or firmware, it is actually safe to switch the power off **except when the tray is open**. When the disc has been loaded and the tray opens, then at this point the flash memory is erased and re-programmed. Therefore powering off at this point will cause the memory content to be lost.

Updating the software or firmware in this way is like doing a flash BIOS update on a PC in that it is not without some risk and in the event that something does go wrong then it may render the machine inoperable. If the player is 'dead' following a failed update, then it will have to be returned to Arcam (or a recognised service Engineer) for repair. If the problem was caused by the drive update, then a new drive may be required. If it was the player software, then new flash ROMs will be required.

**In case of any enquiry contact Arcam Customer Support on 01223 203 203
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