



Philips Upgrade Information and Media List

- Types: PBDV1601B/00 (Black) → Drive type number on label.
PBDV1601G/00 (Grey)
PBDV1640B/00 (Black)
PBDV1640G/00 (Grey)
PBDV1640B/35 (Black)
PBDV1640G/35 (Grey)
PBDV1640S/35 (Silver)
- String: PBDV1601P → Drive name as seen in Windows™
PBDV1640P
- From firmware: Bx.x
- To firmware: B3.7
- Date: 18 May 2006

Table of contents:

| | | |
|------|------------------------------------------------------|---|
| 1. | Version History | 2 |
| 2. | Important notice on DVD write speeds..... | 3 |
| 3. | Nero software update..... | 3 |
| 4. | More information and Frequently Asked Questions..... | 3 |
| 5. | Supported DVD media lists | 4 |
| 5.1. | Supported DVD+R discs | 4 |
| 5.2. | Supported DVD+R Double Layer discs..... | 5 |
| 5.3. | Supported DVD+RW discs..... | 6 |
| 5.4. | Supported DVD-R discs | 7 |
| 5.5. | Supported DVD-RW discs..... | 8 |

www.philips.com/storageupdates



Philips does not and can not warrant the performance of/the results you may obtain using this software. At no time, Philips can held liable for any damages including (but not limited to) lost profits or consequential damages or for any claim by any other party.

1. Version History

First version is B1.1

Changed from firmware B1.x to B2.0

- Added writing on DVD-R and on DVD-RW.

Changes from firmware B2.0 to B2.1

- Improved writing quality on DVD+R discs.
- Improved writing quality on DVD+R Double Layer discs.

Changes from firmware B2.1 to B2.2

- Improved writing quality on DVD+R discs.
- Improved writing quality on DVD+R Double Layer discs.
- Reduced write speed on DVD+R 8x ("PHILIPS C08") disc from 12x to 8x to ensure high and stable write quality.

Changes from firmware B2.2 to B2.4 (B2.3 does not exist)

- Improved stability of writing on DVD+R Double Layer.
- Improved writing on 4x (low speed) CD-RW media.
- Improved read performance on DVD+R Double Layer.
- Improved writing quality on DVD+R Double Layer discs.
- Improved writing quality on DVD+R 4x and 8x discs.
- Improved writing on Taiyo Yuden CD-Recordables.
- Fixed the possible hang/crash on some motherboards with an nVidia nForce Chipset in combination with Windows XP Service Pack 2.
- Plays the CD part of SACD (Super Audio CD).

Changes from firmware B2.4 to B2.5

- Released 17 November 2004.
- Improved writing quality on DVD-R 8x "DAXON008S".

Changes from firmware B2.5 to B3.0

- Released 1 December 2004.
- Increased write speed on DVD+R Double Layer disc "MKM001" from 2,4x to 4x.
- Increased write speed on DVD-R up to 16x (on selected media).
- Microsoft™ WHQL ID: 916235

Changes from firmware B3.0 to B3.2

- Released 13 January 2005.
- Improved write quality on DVD+R Double Layer discs.
- Microsoft™ WHQL ID: 929851

Changes from firmware B3.2 to B3.3

- Improved write quality on DVD+R discs.

Changes from firmware B3.3 to B3.4

- Released 10 February 2005.
- Improved write quality on DVD+R 16x discs.

Changes from firmware B3.4 to B3.5

- Released 10 June 2005.
- Fixed the possible hang/crash on some motherboards with an nVidia nForce Chipset in combination with Windows XP Service Pack 2.
- Improved writing quality on DVD+R and DVD-R discs.
- Improved Optimum Power calibration on DVD+R Double Layer discs.
- Included protection to prevent writing on non supported media.
- Microsoft™ WHQL ID: 987421.

Changes from firmware B3.5 to B3.6

- Released 5 August 2005.
- Improved recognition of System Restore CD discs.

Changes from firmware B3.6 to B3.7

- Released 19 May 2006.
- Fix for "Session Fixation Error" at the beginning of the writing process when writing unknown DVD+R Double Layer discs.
- This update also includes the PBDV1601P drives, which will be updated into PBDV1640P drives.

2. Important notice on DVD write speeds

You can write several discs at a higher speed than indicated on the label (example: write at 12x on a 8x disc) as this drive is equipped with "overspeed".

We advise to use this feature only when you have high quality discs.

As soon as you may have any suspicion about the quality of your discs or encounter a problem reading back written discs, we advise to use a lower write speed.

3. Nero software update

In case you use Nero software for your Philips drive, we advise to have this software also up to date:

1 Start the Nero StartSmart 
Nero StartSmart

2 Choose the Nero Productcenter (A).

Click on the "Check Now" button (B).

Install the latest available versions by clicking on the green arrows (C).



| Programs | Installed version | Latest available version |
|-------------------|-------------------|--------------------------|
| LightScribe API | 1.4.27.1 | 1.4.67.1 |
| Nero 6 | 6.6.0.13 | 6.6.1.4 |
| Nero Digital | 3.1.0.7 | 3.1.0.25 |
| Nero Media Player | 1.4.0.32 | 1.4.0.35 |

3 We advise to restart your computer after updating.

4. More information and Frequently Asked Questions

More information and some Frequently Asked Questions can be found on our website:

<http://www.philips.com/storageupdates>

5. Supported DVD media lists

The ADIP code (for "+" media) and the Pre Recorded Info in Lead In code (for "-" media) do indicate the manufacturer of the disc. This code will allow the drive to recognize the disc and with this information the drive will choose the best possible write strategy so that the discs are written in the best possible way.

This information can easily be obtained using e.g DVD Identifier (download from <http://dvd.identifier.cdfreaks.com/>). Please note that this is 3rd party software for which Philips can not take any responsibility.

Please also note that Philips can not guarantee that discs which are not in the list are well written.

5.1. Supported DVD+R discs



DVD+R 2,4x discs

CMC MAG R01
MCC 001
OPTODISC OP2
PRODISC R01
RICOHJPN R00
RITEK R01

DVD+R 4x discs

AML 001
BeAll000 P40
CMC MAG F01 (Can be written at 8x)
DAXON AZ1
DDT01 001
DT-D02 02
GSC502 002
INFODISC R10
IS01 001
MAXELL 001 (Can be written at 8x)
MBIPG101R03
MCC 002 (Can be written at 8x)
MPOMEDIA 040
MUST 002
NANYA RJB
OPTODISC OR4
POMSC001 002
PRODISC R02
RICOHJPN R01 (Can be written at 8x)
RITEK M02 (Can be written at 8x)
RITEK R02 (Can be written at 8x)
SONY D01 (Can be written at 12x)
TDK 001 (Can be written at 8x)
YUDEN000 T01 (Can be written at 12x)

DVD+R 8x discs

AML 002 (Can be written at 12x)
BeAll000 P80 (Can be written at 12x)
CMC MAG E01
DAXON AZ2 (Can be written at 16x)
DDDessau V30 (Can be written at 12x)
DT-D03 004 (Can be written at 12x)
EMDP 000
GSC503 H01
IMC JPN R01 (Can be written at 16x)
IMFOME R20 (Can be written at 12x)
INFODISC R20 (Can be written at 12x)
IS01 002
ISSM 001
LD S03 (Can be written at 16x)
LONGTEN 002
MAMM02

| | |
|---------------|-------------------------|
| MAXELL 002 | (Can be written at 12x) |
| MBIPG101R04 | (Can be written at 12x) |
| MCC 003 | (Can be written at 12x) |
| MJC 003 | (Can be written at 12x) |
| MPOMEDIA 080 | |
| MUST 002 | |
| NANYA CHX | (Can be written at 12x) |
| NANYA CLX | (Can be written at 12x) |
| OPTODISC 0R8 | |
| PHILIPS 081 | (Can be written at 12x) |
| PHILIPS C08 | |
| PLASM0N1 C01 | (Can be written at 12x) |
| POS R01 | |
| PRODISC R03 | (Can be written at 12x) |
| RICOHJPN R02 | (Can be written at 16x) |
| RITEK R03 | (Can be written at 12x) |
| RSKYMEDIA R03 | |
| SONY D11 | (Can be written at 16x) |
| TDK 002 | (Can be written at 16x) |
| ULTRAN 202 | |
| VANGUARD 001 | |
| VDSPMSAB 002 | |
| VIVA 002 | |
| WFKA11 211 | |
| WINGSHIN 001 | (Can be written at 12x) |
| YUDEN000 T02 | (Can be written at 16x) |

DVD+R 16x discs

| | |
|--------------|-------------------------|
| BeAll PG0 | |
| CMC MAG M01 | |
| DAXON AZ3 | |
| DAXON CY3 | |
| EMDPAZ01 000 | (Will be written at 4x) |
| GSC503 H01 | |
| INFOME R30 | |
| ISSM 002 | |
| LD M04 | |
| LGEP16 001 | |
| MAM M04 | |
| MAXELL 003 | |
| MBIPG101 R05 | |
| MCC 004 | |
| MUST 006 | |
| NANYA FLX | |
| NSD R40 | |
| OPTODISC F16 | |
| OPTODISC R16 | |
| PHILIPS C16 | |
| Plasmon2 C01 | |
| POS R05 | |
| PRODISC R04 | |
| PRODISC R05 | |
| RICOHJPN R03 | |
| RITEK R04 | |
| SONY D21 | |
| TDL 003 | |
| VDSPMSAB 004 | |
| YiJhan 004 | (Will be written at 8x) |
| YUDEN000 T03 | |

5.2. Supported DVD+R Double Layer discs



DVD+R Double Layer 2,4x discs

| | |
|-------------|------------------------|
| MKM 001 | (Can be written at 4x) |
| PHILIPS CD2 | |
| RITEK D01 | |

5.3. Supported DVD+RW discs



DVD+ReWritable

DVD+RW 2,4x discs

CMC MAG W01
INFODISC A10
MBIPG101 W03
MCC A01
OPTODISC W01
RICOHJPN W01
RITEK 001
SENTINEL W01

DVD+RW 4x discs

CMC MAG W02
DAXON D42
INFODISC A10
MBIPG101 W04
MKM A02
NANYA DRW
OPTODISC OP4
PHILIPS 041
PRODISC W02
RICOHJPN W11
RITEK 004
SENTINEL W02
SONY S11

5.4. Supported DVD-R discs



Please note that 1x DVD-R discs are not supported.

DVD-R 2x discs (written at 2,4x)

BeAll G00001
MCC 00RG200
MXL RG01
PRODISCG02
RITEKG03
SONY
TAIYOYUDEN
TDKG02000000

DVD-R 4x discs

4M SYS 202C1
BeAll G40001
DATA TRACK
DAXON004
FUJIFILM02
INFODISC-R01
ISSM 01
MAM4XG01
MAM4XG02
MBI 01RG20
MCC 01RG20
MUST 001
MXL RG02
OPTODISCR004
RITEKM02
SONY04D1
TTG01
TYG01
VANGUARD
WFI A40001
WINGSHING04

DVD-R 8x discs

BeAll G40001 (can we written at 12x)
CMC MAG. AE1 (can we written at 12x)
DAXON008S (can we written at 16x)
Dvsn-80
FUJIFILM03
GSC003
IMC JPNR01
INFODISC-R20
INFOMEDIAR20
INFOSMART01
ISSMR01
LEADDATA S03
LGE08
MBI 03RG30
MCC 02RG20 (can we written at 12x)
MJC ME
MXL RG03 (can we written at 12x)
OPTODISCR008
Plasmon1A
POMS3A
POMSI002
ProdiscF01 (can we written at 12x)
ProdiscS04 (can we written at 12x)
RITEKG06
SKC M801 (will be written at 4x)
SONY08D1 (can we written at 16x)
TAROKOMX8 (will be written at 4x)
TTG02

TTH01 (can we written at 12x)
TYG02 (can we written at 16x)
VANGUARD01 (will be written at 4x)
WINGSHING08

DVD-R 16x discs

BeAll G16001 (will be written at 4x)
CMC MAG. AM3 (will be written at 12x)
DAXON016S
FUJIFILM01 (will be written at 12x)
MBI 03RG40
MCC 03RG20
MXL RG04 (will be written at 8x)
NANYA F02 (will be written at 12x)
OPTODISCR016 (will be written at 8x)
ProdiscF02
ProdiscS05
SONY16D1
TTH02
TYG03

5.5. Supported DVD-RW discs



Please note that 1x DVD-RW discs are not supported.

DVD-RW 2x discs (written at 2,4x)

CMCW02
DAXON_RW2X01
INFODISC
JVC_VictorW7
MCC 01RW11n1
OPTODISCW002
Prodisc DW04
RITEKW01
TDK502sakuM3

DVD-RW 4x discs

CMCW03
JVC0VictorD7
MCC 01RW4x
OPTODISCW004
PRODISCDW06
RITEKW04
TDK601saku