



Philips Firmware Upgrade Information

Upgrade for types: DVDR1620K/00 → Drive type number on label.
DVDR1625K/00
DVDR1625K/17
DVDR1625K/30
DVDR1625K/35
DVDR1640K/00
DVDR1645K/00
DVDR1645K/30

Upgrade for string: DVDR1640P → Drive name as seen in Windows™

From firmware: Px.x

To new firmware: P3.6

Date: 19 July 2005

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1. Version History

First version is P2.0

Changes from firmware P2.0 to P2.1

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

Changes from firmware P2.1 to P2.2

- 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 P2.2 to P2.4

- Released 5 November 2004.
- 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-Recordable.
- 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 P2.4 to P2.5

- Released 11 November 2004.
- Improved writing quality on DVD-R 8x "DAXON008S".

Changes from firmware P2.5 to P3.0

- 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).

Changes from firmware P3.0 to P3.2

- Released 13 January 2005.
- Improved write quality on DVD+R Double Layer discs.

Changes from firmware P3.2 to P3.3

- Improved write quality on DVD+R discs.

Changes from firmware P3.3 to P3.4

- Released 7 February 2005.
- Improved write quality on DVD+R 16x discs.

Changes from firmware P3.4 to P3.5

- Released 8 June 2005.
- Fixed the possible hang/crash on some motherboards with an nVidia nForce Chipset in combination with Windows XP Service Pack 2.
 - ⇒ This upgrade will also allow to upgrade the test version T3.4 for the nVidia Chipset problem to be upgraded to P3.5. In this case, you will be warned "The version of the firmware you are attempting to flash is older than the drive's current version of firmware. Do you really want to proceed." Please ignore this warning by clicking on "OK".
- 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.

Changes from firmware P3.5 to P3.6

- Released 19 July 2005.
- Improved recognition of System Restore CD discs.

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.

1.1. Supported DVD+R discs



DVD+R 2,4x discs

ADIP code									
C	M	C		M	A	G		R	0 1
M	C	C						0	0 1
O	P	T	O	D	I	S	C	O	P 2
P	R	O	D	I	S	C		R	0 1
R	I	C	O	H	J	P	N	R	0 0
R	I	T	E	K				R	0 1

DVD+R 4x discs

ADIP code										Remark
A	M	L						0	0 1	
B	e	A	I	I	0	0	0	P	4 0	
C	M	C		M	A	G		F	0 1	Written at 8x
D	A	X	O	N				A	Z 1	
D	D	T	0	1				0	0 1	
D	T	-	D	0	2			0	2	
G	S	C	5	0	2			0	0 2	
I	N	F	O	D	I	S	C	R	1 0	
I	S	0	1					0	0 1	
M	A	X	E	L	L			0	0 1	Written at 8x
M	B	I	P	G	1	0	1	R	0 3	
M	C	C						0	0 2	Written at 8x
M	P	O	M	E	D	I	A	0	4 0	
M	U	S	T					0	0 2	
N	A	N	Y	A				R	J B	
O	P	T	O	D	I	S	C	O	R 4	
P	O	M	S	C	0	0	1	0	0 2	
P	R	O	D	I	S	C		R	0 2	
R	I	C	O	H	J	P	N	R	0 1	Written at 8x
R	I	T	E	K				R	0 2	Written at 8x
R	I	T	E	K				M	0 2	Written at 8x
S	O	N	Y					D	0 1	Written at 12x
T	D	K						0	0 1	Written at 8x
Y	U	D	E	N	0	0	0	T	0 1	Written at 12x

DVD+R 8x discs

ADIP code										Remark
A	M	L						0	0 2	Written at 12x
B	E	A	L	L	0	0	0	P	8 0	Written at 12x
C	M	C		M	A	G		E	0 1	
D	A	X	O	N				A	Z 2	Written at 16x
D	D	D	e	s	s	a	u	V	3 0	Written at 12x
D	T	-	D	0	3			0	0 4	Written at 12x
E	M	D	P					0	0 0	
G	S	C	5	0	3			H	0 1	
I	M	C		J	P	N		R	0 1	Written at 16x
I	N	F	O	D	I	S	C	R	2 0	Written at 12x
I	N	F	O	M	E			R	2 0	Written at 12x

I	S	0	1					0	0	2	
I	S	S	M					0	0	1	
L	D							S	0	3	Written at 16x
L	O	N	G	T	E	N		0	0	2	
M	A	M	M	0	2						
M	A	X	E	L	L			0	0	2	Written at 12x
M	B	I	P	G	1	0	1	R	0	4	Written at 12x
M	C	C						0	0	3	Written at 12x
M	J	C						0	0	3	Written at 12x
M	P	O	M	E	D	I	A	0	8	0	
M	U	S	T					0	0	2	
N	A	N	Y	A				C	L	X	Written at 12x
N	A	N	Y	A				C	H	X	Written at 12x
O	P	T	O	D	I	S	C	O	R	8	
P	H	I	L	I	P	S		C	0	8	
P	H	I	L	I	P	S		0	8	1	Written at 12x
P	L	A	S	M	O	N	1	C	0	1	Written at 12x
P	O	S						R	0	1	
P	R	O	D	I	S	C		R	0	3	Written at 12x
R	I	C	O	H	J	P	N	R	0	2	Written at 16x
R	I	T	E	K				R	0	3	Written at 12x
R	I	T	E	K				R	0	3	Written at 12x
S	K	Y	M	E	D	I	A	R	0	3	
S	O	N	Y					D	1	1	Written at 16x
T	D	K						0	0	2	Written at 16x
U	L	T	R	A	N			2	0	2	
V	A	N	G	U	A	R	D	0	0	1	
V	D	S	P	M	S	A	B	0	0	2	
V	I	V	A					0	0	2	
W	F	K	A	1	1			2	1	1	
W	I	N	G	S	H	I	N	0	0	1	Written at 12x
Y	U	D	E	N	0	0	0	T	0	2	Written at 16x

DVD+R 16x discs

ADIP code											Remark
B	e	A	I	I				P	G	0	
C	M	C	M	A	G			M	0	1	
D	A	X	O	N				A	Z	3	
D	A	X	O	N				C	Y	3	
E	M	D	P	A	Z	0	1	0	0	0	Written at 4x
G	S	C	5	0	3			H	0	1	
I	N	F	O	M	E			R	3	0	
I	S	S	M					0	0	2	
L	D							M	0	4	
L	G	E	P	1	6			0	0	1	
M	A	M						M	0	4	
M	A	X	E	L	L			0	0	3	
M	B	I	P	G	1	0	1	R	0	5	
M	C	C						0	0	4	
M	U	S	T					0	0	6	
N	A	N	Y	A				F	L	X	
N	S	D						R	4	0	
O	P	T	O	D	I	S	C	R	1	6	
O	P	T	O	D	I	S	C	F	1	6	
P	H	I	L	I	P	S		C	1	6	
P	I	a	s	m	o	n	2	C	0	1	
P	O	S						R	0	5	
P	R	O	D	I	S	C		R	0	4	
P	R	O	D	I	S	C		R	0	5	
R	I	C	O	H	J	P	N	R	0	3	
R	I	T	E	K				R	0	4	
S	O	N	Y					D	2	1	
T	D	K						0	0	3	
V	D	S	P	M	S	A	B	0	0	4	
Y	i	J	h	a	n			0	0	4	Written at 8x
Y	U	D	E	N	0	0	0	T	0	3	

1.2. Supported DVD+R Double Layer discs



DVD+R Double Layer 2,4x discs

ADIP code										Remark	
M	K	M					0	0	1	Written at 4x	
P	H	I	I	I	P	S		C	D	2	
R	I	T	E	K				D	0	1	

1.3. Supported DVD+RW discs



DVD+ReWritable

DVD+RW 2,4x discs

ADIP code										
C	M	C		M	A	G		W	0	1
I	N	F	O	D	I	S	C	A	0	1
M	B	I	P	G	1	0	1	W	0	3
M	C	C						A	0	1
O	P	T	O	D	I	S	C	O	P	1
P	R	O	D	I	S	C		W	0	1
R	I	C	O	N	J	P	N	W	0	1
R	I	T	E	K				0	0	1
S	E	N	T	I	N	E	L	W	0	1

DVD+RW 4x discs

ADIP code										
C	M	C		M	A	G		W	0	2
D	A	X	O	N				D	4	2
I	N	F	O	D	I	S	C	A	1	0
M	B	I	P	G	1	0	1	W	0	4
M	K	M						A	0	2
N	A	N	Y	A				D	R	W
O	P	T	O	D	I	S	C	O	P	4
P	H	I	L	I	P	S		0	4	1
P	R	O	D	I	S	C		W	0	2
R	I	C	O	H	J	P	N	W	1	1
R	I	T	E	K				0	0	4
R	I	T	E	K				0	0	4
S	O	N	Y					S	1	1
S	E	N	T	I	N	E	L	W	0	2

1.4. Supported DVD-R discs



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

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

Pre Recorded Info In Lead In Code											
B	e	A	I	I		G	0	0	0	0	1
M	C	C		0	0	R	G	2	0	0	
M	X	L		R	G	0	1				
P	R	O	D	I	S	C	G	0	2		
R	I	T	E	K	G	0	3				
S	O	N	Y								
T	A	I	Y	O	Y	U	D	E	N		
T	D	K	G	0	2	0	0	0	0	0	0

DVD-R 4x discs

Pre Recorded Info In Lead In Code											
4	M		S	Y	S		2	0	2	C	1
B	e	A	I	I		G	4	0	0	0	1
D	A	T	A			T	R	A	C	K	
D	A	X	O	N	0	0	4				
F	U	J	I	F	I	L	M	0	2		
I	N	F	O	D	I	S	C	-	R	0	1
I	S	S	M						0	1	
M	A	M	4	X	G	0	2				
M	A	M	4	X	G	0	1				
M	B	I		0	1	R	G	2	0		
M	C	C		0	1	R	G	2	0		
M	U	S	T		0	0	1				
M	X	L		R	G	0	2				
O	P	T	O	D	I	S	C	R	0	0	4
R	I	T	E	K	M	0	2				
S	O	N	Y	0	4	D	1				
T	T	G	0	1							
T	Y	G	0	1							
V	A	N	G	U	A	R	D				
W	F	I				A	4	0	0	0	1
W	I	N	G	S	H	I	N	G	0	4	

DVD-R 8x discs

Pre Recorded Info In Lead In Code											Remark	
B	e	A	I	I		G	4	0	0	0	1	Written at 12x
C	M	C		M	A	G	.		A	E	1	Written at 12x
D	A	X	O	N	0	0	8	S				Written at 16x
D	v	s	n	-	8	0						
F	U	J	I	F	I	L	M	0	3			
G	S	C	0	0	3							
I	M	C		J	P	N	R	0	1			
I	N	F	O	D	I	S	C	-	R	2	0	
I	N	F	O	M	E	D	I	A	R	2	0	
I	N	F	O	S	M	A	R	T	0	1		
I	S	S	M	R	0	1						
L	E	A	D	D	A	T	A		S	0	3	
L	G	E	0	8								
M	B	I		0	3	R	G	3	0			
M	C	C		0	2	R	G	2	0			Written at 12x
M	J	C		M	E							
M	X	L		R	G	0	3					Written at 12x
O	P	T	O	D	I	S	C	R	0	0	8	
P	I	a	s	m	o	n	1	A				
P	O	M	S	3	A							
P	O	M	S	I	0	0	2					

P	r	o	d	i	s	c	S	0	4				Written at 12x
P	r	o	d	i	s	c	F	0	1				Written at 12x
R	I	T	E	K	G	0	6						Written at 12x
S	K	C		M	8	0	1						Written at 4x
S	O	N	Y	0	8	D	1						Written at 16x
T	A	R	O	K	O	M	X	8					Written at 4x
T	T	G	0	2									
T	T	H	0	1									Written at 12x
T	Y	G	0	2									Written at 16x
V	A	N	G	U	A	R	D	0	1				Written at 4x
W	I	N	G	S	H	I	N	G	0	8			

DVD-R 16x discs

Pre Recorded Info In Lead In Code												Remark	
B	e	A	I	I		G	1	6	0	0	1		Written at 4x
C	M	C		M	A	G	.		A	M	3		Written at 12x
D	A	X	O	N	0	1	6	S					
F	U	J	I	F	I	L	M	0	4				Written at 12x
M	B	I		0	3	R	G	4	0				
M	C	C		0	3	R	G	2	0				
M	X	L				R	G	0	4				Written at 8x
N	A	N	Y	A		F	0	2					Written at 12x
O	P	T	O	D	I	S	C	R	0	1	6		Written at 8x
P	r	o	d	i	s	c	F	0	2				
P	r	o	d	i	s	c	S	0	5				
S	O	N	Y	1	6	D	1						
T	T	H	0	2									
T	Y	G	0	3									

1.5. Supported DVD-RW discs



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

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

Pre Recorded Info In Lead In Code													
C	M	C	W	0	2								
D	A	X	O	N		R	W	2	X	0	1		
I	N	F	O	D	I	S	C						
J	V	C		V	i	c	t	o	r	W	7		
M	C	C		0	1	R	W	1	1	n	9		
O	P	T	O	D	I	S	C	W	0	0	2		
P	r	o	d	i	s	c		D	W	0	4		
R	I	T	E	K	W	0	1						
T	D	K	5	0	2	s	a	k	u	M	3		

DVD-RW 4x discs

Pre Recorded Info In Lead In Code													
C	M	C	W	0	3								
J	V	C	0	V	i	c	t	o	r	D	7		
M	C	C		0	1	R	W	4	x				
O	P	T	O	D	I	S	C	W	0	0	4		
P	R	O	D	I	S	C	D	W	0	6			
R	I	T	E	K		W	0	4					
T	D	K	6	0	1	s	a	k	u				