



Philips  
Internal Bulk Drive

DVD  
20x ReWriter

SPD2413FM

# DVD, RAM and CD in One

The name to trust for reliability&compatibility

The Philips internal DVD RW drive reads and writes all DVD, dual layer and CD formats. It's easy to install even for inexperienced users. And coming from co-inventor of Blu-ray, DVD and CD optical media, you can be sure it's ultra reliable.

#### **Witness the latest technology**

- Double layer writer for +R and -R, DL media
- DVD-RAM format supported

#### **Superior Performance**

- 8x writing on DVD+R DL
- Amazing 20x writing speed

#### **Extreme Reliability and Robustness**

- Dynamic Calibration ensures writing quality at high speed
- Safe and reliable re-writing with Seamless Link

#### **Convenience**

- Step by step manual in 10 languages
- Dual Format

**PHILIPS**  
sense and simplicity

# Specifications

## Writing Speed

- DVD+R: 20x (24000KB/sec) maximum by CAV
- DVD-R: 20x (24000KB/sec) maximum by CAV
- DVD+R DL: 8x (10800KB/sec) by Z-CLV
- DVD-R DL: 4x (5400KB/sec) by CLV
- CD-R: 48x (7200KB/sec) by CAV
- DVD-RAM: 12x (6750KB/sec) maximum by PCAV

## Rewriting Speed

- DVD+RW: 8X (10800KB/sec) by CLV
- CD-RW: 24x (3600KB/sec) maximum by Z-CTV in Ultraspeed disc
- DVD-RW: 8X (10800KB/sec) by CLV

## Reading Speed

- DVD-ROM: 16x (21600KB/sec) maximum by CAV
- CD-R: 48X (7200KB/sec) by CAV
- Buffer size: 2MB
- Access time: 160ms
- DVD-RAM: 12x (6750KB/sec) maximum by PCAV

## Connectivity

- Interface: IDE interface (ATAPI)
- Other connections: IDE interface connector, Master/Slave select jumper

## Convenience

- Ease of Use: How to manual, step by step
- Ease of Installation: Plug & Play

## Accessories

- Included Accessories: 4 mounting screws, CD-ROM with software + manual, User Manual

## System Requirements

- Hard disk space: 650MB
- PC OS: Windows® XP, 2000 SP4, 98SE
- Processor: Pentium 4 1.3GHz or Higher CPU
- RAM memory: 128MB

## Dimensions

- Product weight: <0.9 kg
- Product dimensions (WxDxH): 146 x 170 x 42 mm

## Power

- Adaptor type: DC 5V/12V
- Power consumption: 25 W

## Technical specifications

- Humidity: 15 - 80 %RH (no condensation)
- Operating temperature range: 5 - 50 °C
- Safety standards: EN60950, EN60825, UL1950
- EMC standards: EN55022, EMS55024, FCC Part 15
- Storage temperature range: -40 - 65 °C
- Access time: DVD: <140msec (typical)

## Packaging Data

- Gross weight: 0.9 kg
- Height: 107 mm
- Length: 260 mm
- Width: 210 mm
- 12NC: 867000032405
- EAN/UPC/GTIN: 609585139152

## Inner Carton

- Gross weight: 1.2 kg
- Height: 107 mm
- Length: 210 mm
- Quantity: 1
- Width: 260 mm
- 12NC: 867000032405
- EAN/UPC/GTIN: 609585139152

## Outer Carton

- Quantity: 10
- Gross weight: 2 kg
- Height: 230 mm
- Length: 270 mm
- Width: 230 mm
- EAN/UPC/GTIN: 609685139162

## Outer Carton 2

- Quantity: 320

## Software

- Ahead Nero Suite 6: InCD 4, Nero Burning Rom 6, Nero Vision express 2, EasyWrite Reader 4, Nero media Player 1

# Highlights

## Multi language manual

By using the multi language manual you are guided through the installation process in your own language.

## Dynamic Calibration

Dynamic Calibration optimizes DVD writing quality of high-speed DVD+RW drives.

## Seamless Link

Seamless Link prevents loss of discs caused by writing errors

## DVD-RAM

The DVD-RAM format is supported, which makes this product a true MultiRecording drive supporting all CD and DVD formats.



Issue date 2009-11-06

Version: 1.0.3

12 NC: 8670 000 32449  
UPC: 6 09585 13931 2

© 2009 Koninklijke Philips Electronics N.V.  
All Rights reserved.

Specifications are subject to change without notice.  
Trademarks are the property of Koninklijke Philips Electronics N.V. or their respective owners.

[www.philips.com](http://www.philips.com)