

# Sony Optiarc AD-5280S-CB Plus Duplication Drive Review

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V1.2

When it comes to powerful and future-proof Optical Disc Drives (ODD), professional users, computer manufacturers and OEMs rely on products from Sony Optiarc. They will amaze you with their superior performance, long-lasting quality, excellent reliability, enormous capacity and high precision.

Today we present you Optiarc's 3rd generation 24x Duplication Burner, the Optiarc AD-5280S-CB. Currently, Sony Optiarc DVD Burner is the only DVD Burner that is still designed in Japan. Powered by Renesas (Japanese semiconductor manufacture) MC-10131 chipset, it supports 24X burning with specific DVD±R media, 12x with DVD±R DL, 8x with DVD+RW and 6X with DVD-RW. In addition, it comes with various duplication related features that will differentiate it among others.

## Specifications:

Read Speed	DVD: 16x max. CD: 48x max
Write Speed	DVD-R: 24x max. DVD+R: 24x max. DVD-RW: 6x max. DVD+RW: 8x max. DVD-R DL: 12x max. DVD+R9: 12x max. CD-R: 48x max. CD-RW: 32x max
Access time	DVD: 160 ms CD: 140 ms
Mechanism	Motorized tray load mechanism for horizontal and vertical use
Interface	S-ATA
Burst transfer Rate	150 MBytes/s
Cache	1 Mbytes
Media supported	DVD-ROM, DVD-R (DL), DVD-RW, DVD+R9, DVD+RW, CD-ROM, CD-R and CD-RW with 80mm and 120mm diameter
Modes supported	DVD-ROM, DVD-Video, CD-ROM, CD-ROM XA, CD-I Ready, CD-Bridge, PhotoCD, VideoCD, CD-DA, CD Extra, CD Text
Writing method	DAO, SAO, TAO with zero gap, variable or fixed packet, multisession
Compatibility	MultiRead, PC2001, Microsoft® Windows 7/ Windows Vista/ Windows XP
Weight	0.63KG
Dimensions	148 mm x 42 mm x 170 mm
Special Features	Dust protected enclosure Buffer under run error prevention M-Disc Archival Media Support DVD+R DL OverBurn (up to 8.7GB) Fully Extended Tray (5280S-CB-AUTO Models ONLY)

## Internal Components:

**Sony Optiarc Inc. 索尼光领有限公司** 4-16-1 Okata, Atsugi-shi, Kanagawa, 243-0021 Japan  
 DVD/CD REWRITABLE DRIVE DVD/CD 刻录机 產品名稱: DVD/CD燒錄機  
 Model No./型号/型號/모델명 AD-5280S **[-CB] R**  
 電壓/電流 5V ≡ 1.5A 12V ≡ 2.5A  
 \*30669390\*1025466L312\* Manufactured : S  
 SOK-AD-7280S(B) 生产日期: 20120524  
 Serial No./製造號碼  
 Manufactured Date/製造年月: May / 2012

**CAUTION - CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM.**  
 ATTENTION - RADIATIONS LASER VISIBLES ET INVISIBLES DE CLASSE 3B EN CAS D'OUVERTURE. EVITER TOUTE EXPOSITION AU FAISCEAU.  
 VARO! - AVATTUNA LUOKAN 3B NÄKYVÄÄ JA NÄKYMÄTÖNTÄ LASERSÄTEILYÄ. VÄLTÄ ALTISTUMISTA SÄTEELLE.  
 VARNING - KLASS 3B SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. UNDVIK ATT EXPONERA DIG FÖR STRÅLNINGEN.  
 ADVARSEL - SYNLIG OG USYNLIG LASERSTRÅLING I KLASSE 3B NÅR DEKSEL ÅPNEES. UNNGÅ EKSPONERING FOR STRÅLEN.  
 ADVARSEL - SYNLIG OG USYNLIG LASERSTRÅLING AF KLASSE 3B VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.  
 VORSICHT - KLASSE 3B SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN GEÖFFNET. KONTAKT MIT DEM STRAHL VERMEIDEN.  
**警告 - 打开时存在3B类可见/不可见激光辐射。避免光束照射。**  
**注意 - 打開時有第3B類可視及不可視雷射輻射。避免曝露於光束。**

Made in China 中国制造/製造國: 中國  
 CLASS 1 LASER PRODUCT LASER KLASSE 1 PRODUKT  
**1类激光产品 第1類雷射產品**  
 IEC 60825-1:2007

Certification Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to laser notice No.50, dated June 24, 2007.  
 This Class B digital apparatus complies with Canadian ICES-003.  
 Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. E73362

**BAUART GEPRÜFT TYPE APPROVED**  
 TÜV Rheinland Product Safety 42770860  
 CE E10 C N50 D33021



## Testing Environment:

### Testing System:

CPU	Intel i3-2100
Motherboard	MSI MS-7681
RAM	DDR3, 4GB
OS	Windows 7 SP1, 32bit
Recording Software	ImgBurn v2.5.7

### Comparison Drives:

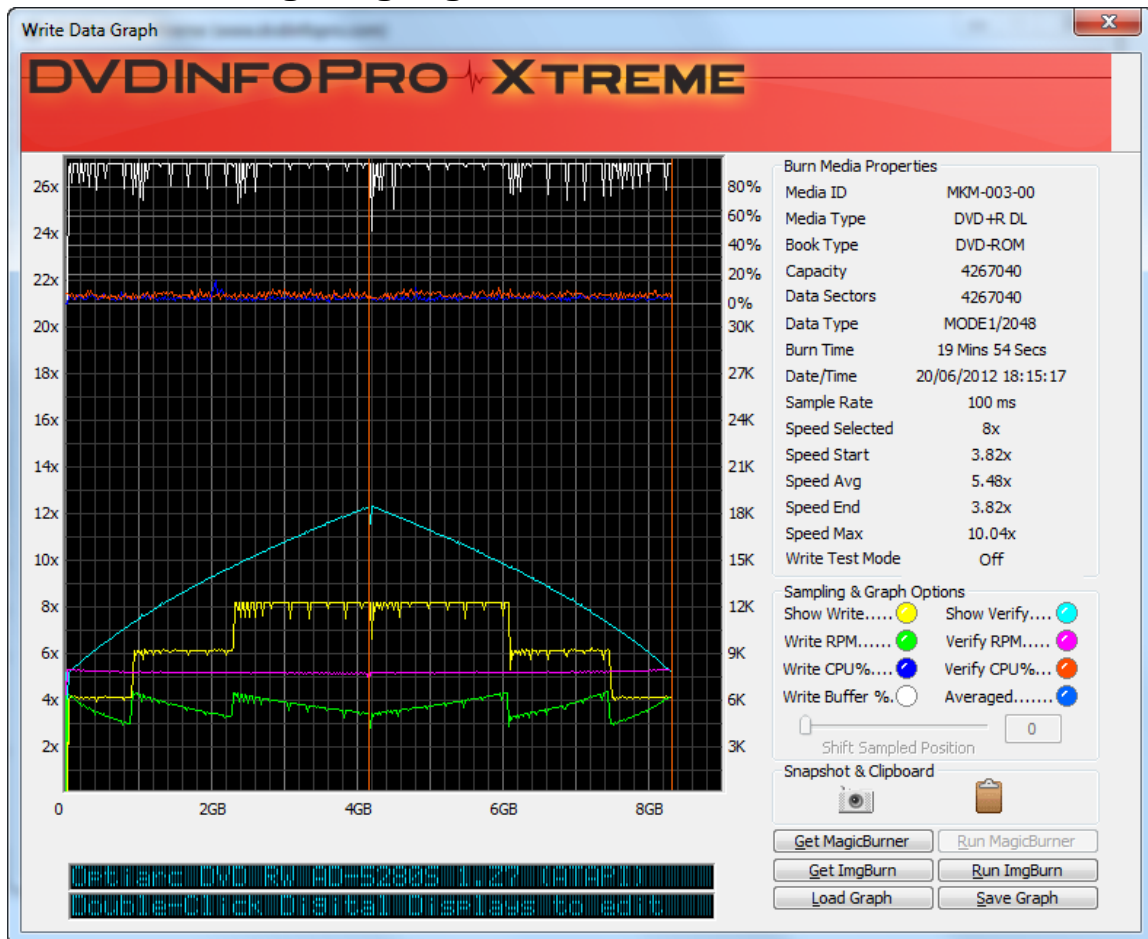
Drive Model	Firmware
Sony Optiarc AD5280S-CB Plus	<b>1.Z7</b>
Pioneer DVR217	1.07
Pioneer DVR220L	1.01
LG GH24NS70	GN02

## Special Feature – DVD+R DL Overburning:

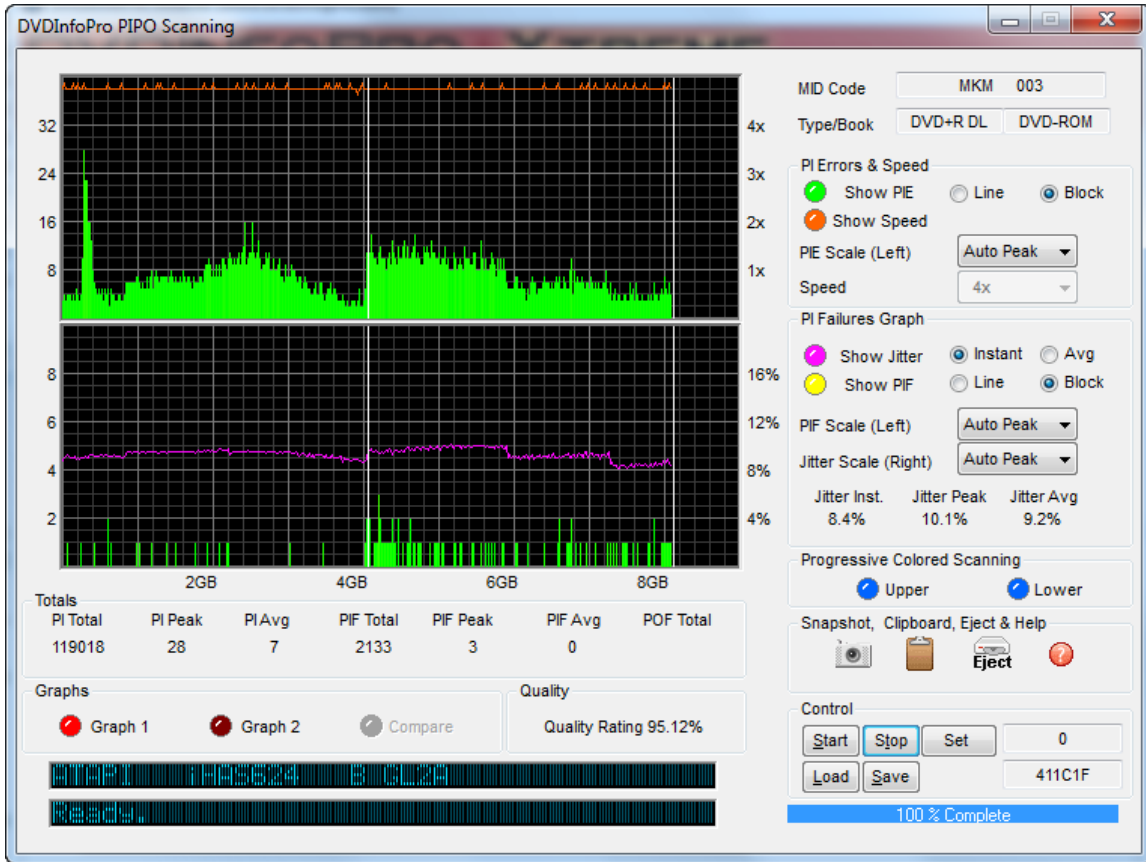
The most important features of this DVD writer that stand out among others is the fact that it officially supports DVD+R DL overburning. Allowing to burn 8.7GB data on a 8.5GB capacity disc.

Drive Model	DVD+R DL Writing Capacity (Bytes)
Sony Optiarc AD5280S-CB Plus	<b>8,738,897,920</b>
Pioneer DVR217	8,547,991,552
Pioneer DVR220L	8,547,991,552
LG GH24NS70	8,547,991,552

## Full 8.7GB Writing using ImgBurn:



## Disc Quality Scanning of recorded 8.7GB Disc using DVDInfoPro:



## Basic CD-R Writing:

### Media Information:

Media Brand	Taiyo Yuden
Manufacture	Taiyo Yuden / JVC
Media ID	97m24s01f
Capacity	700MB

### Recording Performance @ 32x - Opti Drive Control:

Recording Drive Model:	Recording Time:
Sony Optiarc AD5280S-CB Plus	<b>3:37</b>
Pioneer DVR217	3:25
Pioneer DVR220L	3:31
LG GH24NS70	3:03

### Media Quality - Opti Drive Control:

Recording Drive Model:	Scanning Drive: Liteon iHAS124B Scanning Speed: 8x		
	C1 Avg	C1 Max	C2 Total
Sony Optiarc AD5280S-CB Plus	<b>0.22</b>	<b>129</b>	<b>72</b>
Pioneer DVR217	0.24	97	55
Pioneer DVR220L	0.27	39	2
LG GH24NS70	0.40	48	0

## Basic DVD-R Writing:

### Media Information:

Media Brand	Taiyo Yuden
Manufacture	Taiyo Yuden / JVC
Media ID	TYG03
Capacity	4.7GB

### Recording Performance @ 8x - Opti Drive Control:

Recording Drive Model:	Recording Time:
Sony Optiarc AD5280S-CB Plus	<b>8:14</b>
Pioneer DVR217	7:48
Pioneer DVR220L	9:03
LG GH24NS70	7:42

### Media Quality - Opti Drive Control:

	Scanning Drive: Liteon iHAS124B Scanning Speed: 12x		
Recording Drive Model:	PIE Avg	PIF Avg	PIF Max
Sony Optiarc AD5280S-CB Plus	<b>1.35</b>	<b>0.02</b>	<b>3</b>
Pioneer DVR217	14.93	0.02	12
Pioneer DVR220L	2.98	0.09	7
LG GH24NS70	19.10	0.03	5

## Basic DVD+R DL 8.5GB Writing:

### Media Information:

Media Brand	CMC
Manufacture	CMC
Media ID	CMC MAG D03 (064)
Capacity	8.5GB

### Recording Performance @ 8x - Opti Drive Control:

Recording Drive Model:	Recording Time:
Sony Optiarc AD5280S-CB Plus	<b>19:11</b>
Pioneer DVR217	18:34
Pioneer DVR220L	17:36
LG GH24NS70	27:26

### Media Quality - Opti Drive Control:

	Scanning Drive: Liteon iHAS124B Scanning Speed: 12x		
Recording Drive Model:	PIE Avg	PIF Avg	PIF Max
Sony Optiarc AD5280S-CB Plus	<b>27.03</b>	<b>0.02</b>	<b>78</b>
Pioneer DVR217	42.46	0.06	28
Pioneer DVR220L	64.88	0.19	94
LG GH24NS70	43.57	0.02	14



## Conclusion:

Overall, the only Japanese designed drive in the market that is powered by Japanese chipset did not disappoint us. Its recording performance is on par with other drives in the market, while the recording quality remains the best on both DVD SL and DVD DL recording. In addition with various handy duplication features like DVD+R DL overburning and M-Disc archival media support, it is a very easy decision for us to recommend this drive over other drives in the market.

## Tested By:

Name: Solti Ho

A handwritten signature in black ink, appearing to read 'Solti Ho', written in a cursive style.

Company: Vinpower Digital

Date: 07/23/12