



Based upon  
JIIMA BD recording guide  
/JIS Z6017

JIIMA ; Japan Image and Information Management

**BDXL™**

**BDR-PR1M** Professional BD drive with measurement function

**BDR-PR1MA** Professional BD drive for regular read/write operation

**Compatibility with:** - standard CD/DVD and BD media  
- selected 50/100GB Archive Grade Blu-ray media

A matching write strategy for Archive Grade 50/100GB media realizes a super low error rate of appr. 10% the error rate achievable with consumer drives/media.

**High reliability design for tough professional use**

Anti dust design and hi-durability design for tray mechanism built specifically for heavy use in automated environments and for power users. External interface for automation.

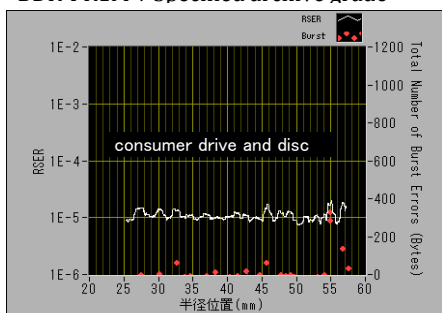
**50+ year\*2) Archive reliability**

The specially selected Optical Pickup is a key component of this high performance drive. A Specially Tuned Write Strategy works with Archive Grade BD media to achieve best recording results. The RSER is reduced to 10% of consumer models' RSER and results in significantly lower deterioration over years.

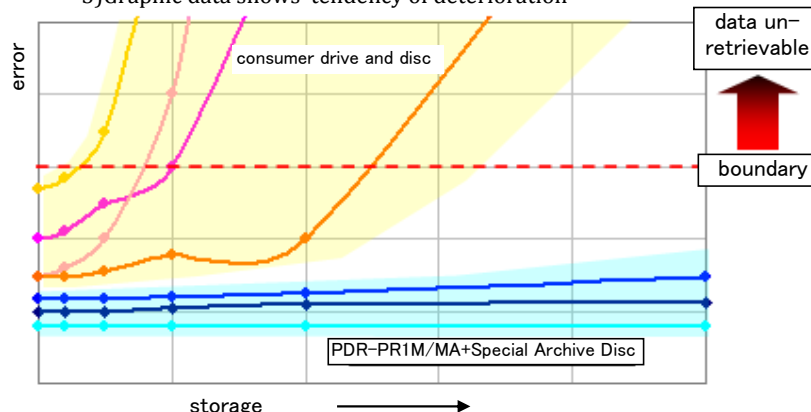
**Error rate inspection**

With the BDR-PR1M the Burst Error Rate and the Random Symbol Error Rate can be separately measured accurately to manage the recording quality based upon JIIMA standard and JIS Z6017.

Initial recording error rate of BDR-PR1M+ Specified archive grade



\*3)Graphic data shows tendency of deterioration



\*1Japan Image and Information Management Association is the only officially recognized organization in Japan that has attributed to promote the penetration and enlightenment of the document information management over 50 years. \*2)estimated life based on "Arrhenius Method" \*3)This is just rough image of the deterioration tendency in comparison between consumer drive with disc and professional archive drive with archive grade disc.

## Main specification

Recording Disc	BD		BD-R (Single/Dual/Triple layer)
	DVD		DVD-R
	CD		CD-R
Reading Disc	BD		BD-ROM (Single/Dual layer), BD-R (Single/Dual/Triple layer), BD-RE (Single/Dual layer)
	DVD		DVD-ROM (Single/Dual layer), DVD-Video, DVD-R, DVD-R DL, DVD+R, DVD+R DL
	CD		CD-ROM, CD-ROM XA, Photo CD, Video CD, CD-DA, CD-Extra, CD-Text, CD-R
Interface	Serial ATA Revision 2.6		
Writing Speed	BD	-R	2x, 4x
		-R (LTH)	2x, 4x
		-R DL	2x, 4x
		-R TL	2x, 4x
	DVD	-R	6x
	CD	-R	16x
Speed at Quality-Inspection (only by BDR-PR1M)	BD	-R	2x, 4x
		-R (LTH)	2x, 4x
		-R DL	2x, 4x
		-R TL	2x, 4x
	DVD	-R	6x
	CD	-R	10x
Read out speed	BD (single layer)		8x Max
	BD (double layers)		8x Max
	BD (triple layers)		4x Max
	DVD (single layer)		16x Max
	DVD (double layers)		12x Max
	CD		40x Max
Buffer memory size	4 MB		
placed orientation	Horizontal / Vertical		
dimention+weight	148 mm x 42.3 mm x 181 mm (W x H x D) 750 g		

## BDR-PR1M/BDR-PR1MA supporting

Media Manufacturer	Type of Media	Availability	Drive support	Medium type	
Mitusbishi Kagaku Media MKM	BD-R	TL (100GB)	on market	BDR-PR1M / PR1MA	Archive grade
		DL (50GB)	on market	BDR-PR1M / PR1MA	Archive grade