



## Blu-ray Recordable (BD-R)



### Technical Information

#### **GENERAL SPECIFICATIONS:**

Our 25Gb Blu-ray discs allow 1x-4x recording speed, or 4.5 to 18 Mb per second (144 Mb/s) meaning more can be recorded in less time. We also have an Inkjet/Thermal Printable Blu-ray disc available.

#### **DURABILITY:**

Because Blu-ray discs data tracks are much narrower as compared to DVD, there is a need to have precise and stable interaction between the laser and recording material to ensure an error free recording and Playback. Our Blu-ray discs contain an error correction system, far superior to that in CDs and DVDs, ensuring maximum protection of data and video. The recording layers are made from highly stable inorganic materials that are unaffected by exposure to light, ensuring longevity of the disc. This type of inorganic recording layer is a significant improvement over the organic layers presently used in recordable CD and DVD discs and delivers more stable operability and longer disc life.

#### **COATING TECH:**

Blu-ray discs have a layer of unrivalled toughness, protecting the discs vital recording layers. The layers are applied using state-of-the-art spin coating technology, securing an unrivalled uniform thickness of 100µm. It consists of two layers, a protective cover layer and on top of it is a hard coat called as SCRATCHGUARD, ensuring discs can withstand heavy use, from fingerprints to scratches and dirt, making them far superior to standard CDs and DVDs. All without need for a protective cartridge.

#### **RECORDING SPEED:**

Our Blu-ray discs are 1x-4x as well 1x-2x recording compatible. Burning at 4x would reduce the recording time by half (approx) when compared with 2x. A highly robust recording stack ensures stability and compatibility with 4x recording (144Mbps transfer rate). Data equivalent to DVD capacity can be written in less than 5 minutes, which becomes comparable to DVDR recording speed of 16x.

## COVER LAYER:

Our Blu-ray disc media uses a spin coat process to create an extremely uniform 100µm cover layer thickness for high stability. A high precision cover layer is extremely important as the laser beam would pass through the cover layer on its path to recording layer. The patented spin coat process used is performed under ultra clean room conditions to ensure a perfectly 100µm cover layer ensuring high stability.

## RECORDING LAYER:

The recording layer utilizes higher specialized inorganic materials which is unaffected by exposure to light and thereby giving it outstanding archivability. As the materials are inorganic, these are not affected by light and offers superior archivability. Previous recordable media like CD-R and DVD-R used organic dye for their recording layers.

## CERTIFICATION:

Our Blu-ray disc media 4x has been verified and we are one of the first few companies to have this verification. The new discs support recording speeds from 1x to 4x, and incorporate a recording layer comprised of inorganic material. The discs are further hard coated with an ultra-smooth and precise cover layer created through the spin coating method, and a host of other advanced technologies that enable the creation of high-reliability media.

# Compatibility Information

## BD-R 1x-2x compatibility

Brand	MS	Type	Style	Model	Firmware	BDR	BDRE	OMT Philips (PHILIP R02)	OMT Philips (PHILIP R02)
LG	1.5%	PC	HH	GBW-H10N	GL06	2x	2x	2x	1.5%
LG	1.5%	PC	HH	GGW-H20N	XL03	6x	2x	2x**	0.0%
Liteon	0.8%	PC	HH	BD-4B1S	7P5B	4x	2x	2x	0.8%
Liteon	0.8%	PC	HH	BDD 1001(LH-2B1S)	BDIN	2x	2x	2x	0.8%
Philips	0.8%	PC	HH	SPD7000P	BPBM	2x	2x	2x	0.8%
Panasonic	4.5%	PC	HH	LF-PB271	1.02	4x	2x	2x	4.5%
Panasonic	4.5%	PC	HH	LF-MB121	BD01	2x	2x	2x	4.5%
Panasonic	4.5%	PC	HH	BD-MLT SW-5582	BGF2	2x	2x	2x	4.5%
Panasonic	49.6%	PC	Slim	UJ-220	1003	2x	2x	2x	49.6%
Pioneer	2.0%	PC	HH	BDR-202B	1.07	4x	2x	2x	2.0%
Pioneer*	2.0%	PC	HH	BDR-101A*	1.01	2x	2x	*	0.0%
Optiarc	21.2%	PC	HH	BWU-200S	1.0a	4x	2x	2x	21.2%
<b>Test Coverage</b>	<b>94%</b>								<b>90%</b>

\* Media is not sensed by the drive

\*\* Currently not working but will work with latest firmware

**Media has 90% compatibility**

## BD-R 1x-4x compatibility

Brand	MS	Type	Style	Model	Firmware	BDR	BDRE	OMT Philips (PHILIP R04)	OMT Philips (PHILIP R04)
LG	1.5%	PC	HH	GBW-H10N	GL06	2x	2x	4x	1.5%
LG	1.5%	PC	HH	GGW-H20N	XL03	6x	2x	4x	1.5%
Liteon	0.8%	PC	HH	BD-4B1S	7P5B	4x	2x	4x	0.8%
Liteon	0.8%	PC	HH	BDD 1001(LH-2B1S)	BDIN	2x	2x	2x	0.8%
Philips	0.8%	PC	HH	SPD7000P	BPBM	2x	2x	2x	0.8%
Panasonic	4.5%	PC	HH	LF-PB271	1.02	4x	2x	4x	4.5%
Panasonic	4.5%	PC	HH	LF-MB121	BD01	2x	2x	2x	4.5%
Panasonic	4.5%	PC	HH	BD-MLT SW-5582	BGF2	2x	2x	2x	4.5%
Panasonic	49.6%	PC	Slim	UJ-220	1003	2x	2x	2x	49.6%
Pioneer	2.0%	PC	HH	BDR-202B	1.07	4x	2x	4x**	0.0%
Pioneer*	2.0%	PC	HH	BDR-101A*	1.01	2x	2x	*	0.0%
Optiarc	21.2%	PC	HH	BWU-200S	1.0a	4x	2x	4x	21.2%
<b>Test Coverage</b>	<b>94%</b>								<b>90%</b>

\* Media is not sensed by the drive

\*\* Currently not working but will work with latest firmware

Media has 90% compatibility

## BD-RE 1x-2x compatibility

Brand	MS	Type	Style	Model	Firmware	BDR	BDRE	OMT Philips (PHILIP W02)	OMT Philips (PHILIP W02)
LG	1.5%	PC	HH	GBW-H10N	GL06	2x	2x	2x	2%
LG	1.5%	PC	HH	GGW-H20N	XL03	6x	2x	2x**	0%
Liteon	0.8%	PC	HH	BD-4B1S	7P5B	4x	2x	2x	1%
Liteon	0.8%	PC	HH	BDD 1001(LH-2B1S)	BDIN	2x	2x	2x	1%
Philips	0.8%	PC	HH	SPD7000P	BPBM	2x	2x	2x	1%
Panasonic	4.5%	PC	HH	LF-PB271	1.02	4x	2x	2x	5%
Panasonic	4.5%	PC	HH	LF-MB121	BD01	2x	2x	2x	5%
Panasonic	4.5%	PC	HH	BD-MLT SW-5582	BGF2	2x	2x	2x	5%
Panasonic	49.6%	PC	Slim	UJ-220	1003	2x	2x	2x	50%
Pioneer	2.0%	PC	HH	BDR-202B	1.07	4x	2x	2x	2%
Pioneer*	2.0%	PC	HH	BDR-101A*	1.01	2x	2x	*	0%
Optiarc	21.2%	PC	HH	BWU-200S	1.0a	4x	2x	2x	21%
<b>Test Coverage</b>	<b>94%</b>								<b>90%</b>

\* Media is not sensed by the drive

\*\* Currently not working but will work with latest firmware

Media has 90% compatibility

