



“OPARG™”

Optical Archive Group

Alliance to promote Optical Disc Archiving

- For enhancing Digital Archiving Market by High Quality Optical discs and its drives -



What's OPARG™?



The needs for digital archives are growing.

- Archiving digitized data of the original materials and official documents of public libraries/museums
- Archiving digitized data of the documents, which are obligated to be stored, of medical/financial institutions and government

Optical discs are the most suitable media for digital archives

- Moreover, environmental damage and power consumption is extremely low for archiving.

- To meet such needs, we organized an alliance among disc and drive manufacturers called OPARG.

In order to achieve excellent archiving quality to relieve business users, OPARG will seek to provide dedicated discs and drives.



Key points of OPARG™



1. Superior reliable Optical discs for long-term archiving usage conforming to International Standards of the test method for estimation of the expected lifetime of optical discs
2. Superior Optical drives composed of professional high reliable components to be able to realize high reliability recordings and measurements conforming to the JIIMA guideline
3. Mechanism to identify OPARG authorized discs and drives
4. Mechanism to assure compatibility and recording quality among OPARG products

JIIMA Guideline



- ❑ The guideline provided by JIIMA (Japan Image and Information Management Association) for long-term archiving of digitized data using writable BD discs, specifying the rules and operation methods
- ❑ It describes initial recorded qualities of a disc and testing criterion during long-term archiving.
- ❑ The Optical drives are required to be designed to optimize its recording characteristics to each writable disc to be used.

International Standards for long-term archiving



□ Test method to estimate the lifetime of optical discs

The testing method provided for estimating the expected lifetime of optical discs which allow to shorten the testing duration by adopting accelerated conditions and statistical calculations:

- ISO/IEC 10995 : Test method for the estimation of the expected lifetime of writable DVD discs
- ISO/IEC 16963 : Test method for the estimation of the expected lifetime of writable CD/DVD discs

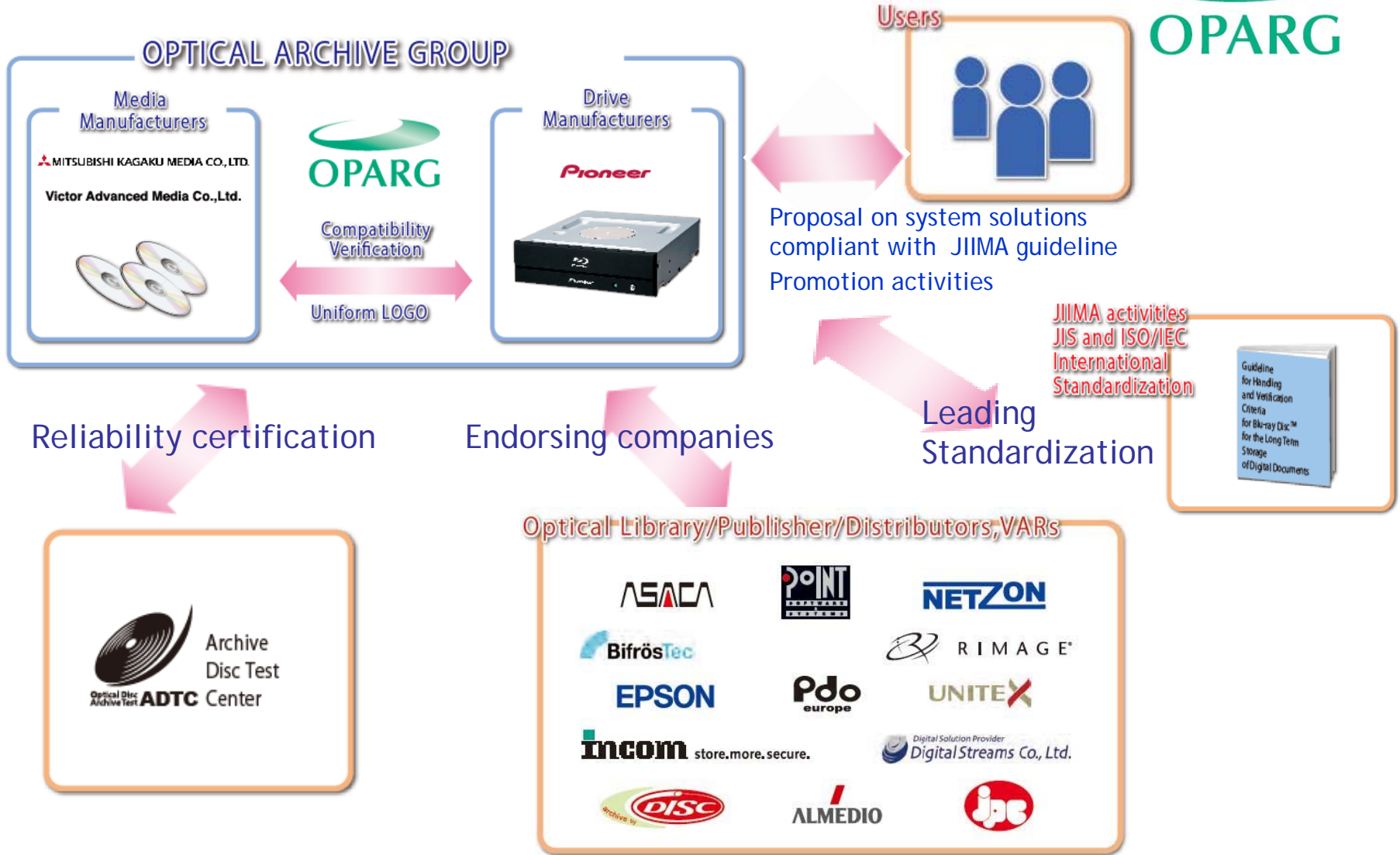
* Discussion to include writable BD discs to ISO/IEC 16963 has already been started late in 2012.

Activity of OPARG™



1. Proposing solutions to provide long-term storage systems compliant with the JIIMA guideline (revision of JIS Z 6017)
2. Conducting tests to keep higher compatibility and adoption of the unified logo
3. Promotional activities for optical disc archives (participating in exhibitions/trade shows, etc.)
4. Appealing various relevant organizations for acquiring certification and worldwide expansion of OPARG certified products

OPARG™ World



MITSUBISHI KAGAKU MEDIA

Pioneer

Victor Advanced Media

Endorsing Companies



List of OPARG™ conformed discs



manufacturer	type		schedule	
Mitsubishi Kagaku Media	BD-R	TL (100GB)	on sale	OPARG recommended
		DL (50GB)	on sale	OPARG recommended
Victor advanced media	BD-R	LtH (25GB)	soon	OPARG recommended
	DVD-R	SL 8x (4.7GB)	soon	OPARG recommended

* Please consult with the each disc manufacturer for their products.





We challenge the high potential of optical discs
And propose the long-term data archiving systems
By introducing the excellent combinations of
High-reliable optical discs and drives !

by OPARG

Pioneer

Victor Advanced Media



Pioneer

Victor Advanced Media