The iVDR Hard Disk drive Consortium (iVDR Consortium) aims at the standardization of the next-generation large capacity data platform that can be used in a wide applications from AV devices to PC systems. The consortium is drawing up iVDR technical specifications preparations of the new concept of removable hard disk drive "iVDR ", and is conducting worldwide promotion activities such as the adoption by the IEC and ISO International Standardization Organization.

**What's iVDR?**

Two types of iVDR, portable cartridge type for removable use and built-in type used for built-in component of equipment, are available.

- The cartridge type can be used for carrying contents into your home, automobile, and mobile devices.
- The built-in type has been designed for use as a fixed, internal component of a variety of equipment such as digital TVs and hard disk recorders for the purpose of increasing the capacity replacing the drive for maintenance.
- The interface (signal unit) conforms to Serial ATA and the data transfer rate is 1.5Gbps or over.
- In order to protect copyright contents such as video and audio data, a PKI (Public Key Infrastructure) based SAFIA technology has been introduced. The iVDR implemented SAFIA technology is called “iVDR-Secure.”
- iVDR-i/O specifications conforming to USB2.0 are also available for a cartridge type and suitable for a peripheral extension such as digital TV tuner module.

SAFIA: Security Architecture For Intelligent Attachment device

The iVDR is a new medium that provides a capability of sharing various contents, including movies, music and programs, over a broad range of devices such as information appliances, home servers, video recorders, automobile AV devices and personal computers.

### Hardware specifications for cartridge type

<table>
<thead>
<tr>
<th></th>
<th>iVDR Mini</th>
<th>iVDR</th>
<th>iVDR Xtreme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size (W x H x D)</td>
<td>80mm x 10mm x 67mm</td>
<td>80mm x 12.7mm x 110mm</td>
<td>80mm x 18mm x 126mm</td>
</tr>
<tr>
<td>Impact resistance</td>
<td>More than 900G (When non-operating)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>External durable temp</td>
<td>-40 to 85 °C (Recommended)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connector durability</td>
<td>Connect/disconnect 10,000 times (26-pin iVDR original connector)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Command</td>
<td>Conformity to ATA 6/7 + SAFIA Secure expansion (iVDR-Secure) + I/O expansion (iVDR-i/O)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secure structure</td>
<td>A tamper-resistant module (TRM) is contained. (iVDR-Secure)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Inquiries

iVDR Consortium Office  
c/o SANYO Electric Co., Ltd.  
Digital Technology Research Center  
180, Ohmori, Anpachi-cho, Anpachi-gun, Gifu 503-0195, Japan  
Tel: +81-584-64-4580  
Fax: +81-584-64-3943  
E-mail: info@ivdr.org

**Official Website**

http://www.ivdr.org/

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