



## **FAQ: Plasmon UDO 1 Media Capacity**

### **What is the capacity of UDO 1 Media?:**

Plasmon UDO media provides 30 GB of customer usable data area. There are 15 GB available on each side of the disk. There are 15 billion + Bytes per side. This is true for RW and WO media.

### **How much capacity do I lose when I format the disk?:**

This will vary by application (proprietary ISV) and is not predictable by Plasmon. In this context, format implies preparing the disk to be written and adding the application's file system.

### **Why does my OS show that I have less than 15 GB of data space per side when I view the capacity of UDO media?:**

This is a mathematical issue in calculating gigabytes.

Plasmon uses 1,000,000,000 or  $10^9$  as 1 GB. This is the industry standard definition used for media capacity.

The standard for defining computer storage and most often used in computer science is, 1,073,741,824 or  $1024^3$  or  $2^{30}$  as being equal to 1 GB.

For example a UDO disk with 15,026,978,816 Bytes available on a side will be divided by  $2^{30}$  by the OS and be reported as having a capacity of 13.99 GB.

Despite this indicator, all 15,026,978,816 Bytes are available for use.

### **Why do I get less than 30 GB of data on my disk?:**

There are several reasons that your data doesn't equal 30 GB when full.

Any overhead used by a particular application, such as file system, directories, media maps, etc. will reduce the actual data area available for use. The data area used will vary by application.

The size of the files written can impact data capacity. If only small files are written some data space in the sectors is left unused. This is not unique to UDO 1 media.

To insure maximum disk usage when writing small files, an application that uses some form of containment or encapsulation is desirable. This will collect larger amounts of data prior to committing the data to optical disks.