

# CMG-DSK-100



## Removable Disk Pack

The Güralp CMG-DSK-100 FireWire/USB disk pack is the standard removable data storage unit supplied with the CMG-EAM Embedded Acquisition Module and, as a stand-alone unit, for use as a data extraction device with digital instruments such as the CMG-6TD.

### Description:

The CMG-DSK-100 is a medium-capacity, portable hard-drive module encased in a durable rubber, shock-resistant sleeve, ensuring reliable operation in hostile environments.

The CMG-DSK-100 has a 100 gigabyte storage capacity and uses an industry standard VFAT file system, ensuring compatibility with all Linux, Apple Macintosh and Microsoft Windows operating systems.

When mounted in Güralp equipment, all necessary connections to the CMG-DSK-100 are made automatically. When used in stand-alone mode, for transporting data from a remote site to the laboratory, for example, the following connection options are available:

**IEEE 1394 FireWire:** When connected to a 6-circuit (powered) IEEE1394 FireWire interface, the CMG-DSK-100 can draw its power from the FireWire connector. When connected to a 4-circuit (un-powered) FireWire interface, such as Sony i.LINK, an external power supply needs to be connected as described below.

**USB:** When connected to a USB interface, the CMG-DSK-100 needs an external DC power supply of between 4.5 and 30 Volts to be connected to the 1.3 mm barrel connector, uppermost in the illustration to the right. The central pin of the barrel connector should be connected to the positive supply line.

**Note:** Do not connect anything to the larger barrel connector, which was used for the heater and temperature sensor on units manufactured before 2013.



# Specifications

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The CMG-DSK-100 has the following connections:

**Power** *DC barrel connector*

*1.3 mm diameter pin, wired positive  
3.5 to 4.1 mm diameter barrel, wired to ground  
9.5 mm barrel length*

*Typical mating connectors:*

*Cliff Electronic Components part number DCP3  
Kobiconn part number 1710-1321*

**USB** *Standard USB Type B*

*Pin-out:*

*1 ⇨ +5 V DC*

*2 ⇨ D-*

*3 ⇨ D+*

*4 ⇨ 0V DC*

**IEEE1394 FireWire** *Standard 6-circuit Alpha*

*Pin-out:*

*1 ⇨ Power, +9 V to +30 V DC*

*2 ⇨ Power ground / shield*

*3 ⇨ TP B-*

*4 ⇨ TP B+*

*5 ⇨ TP A-*

*6 ⇨ TP A+*

**Heater (early models only)** *DC Barrel connector*

*2.5 mm diameter pin, Heater Power (9-36 V DC)  
6.25 mm diameter barrel, Heater data (3.3 V digital out)  
9.5 mm barrel length*

*Typical mating connectors:*

*Cliff Electronic Components part number DCP2  
Switchcraft part number 760*

