HandyDrive – Pocket hard disk drives from Fujitsu

www.fel.fujitsu.com

Data edition

USB 2.0

Video edition

FireWire

The Fujitsu HandyDrive is a cost-effective way of transferring large quantities of data between machines, or for keeping video, audio or high resolution image files in a safe place. It's fast enough to store and run applications too, so it can be used to add capacity to existing machines or for installing new software to multiple stand-alone systems. Or you could simply use it to carry entire applications and data files with you wherever you go.

HandyDrive DATA EDITION

- **USB 2.0**
- **40, 60 and 80 GB capacities**
- **480 Mb/sec (60MB/sec)**
- **Drive is powered from the bus[1]**

HandyDrive VIDEO EDITION

- **FireWire IEEE1394**
- **30 and 40 GB capacities**
- **400 Mb/sec (50MB/sec)**
- **Drive is powered from the bus**

silent HDD

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HandyDrive

Pocket hard disk drives from Fujitsu

Fujitsu HandyDrives offer the user two interfaces, USB 2.0 or FireWire (IEEE1394), and are both PC and Mac compatible. The USB 2.0 version has a maximum transfer rate of 60 MB/sec in capacities of 40, 60 and 80 GB, whilst the FireWire version has a maximum transfer rate of 50 MB/sec also with capacities of 30 and 40 GB. Both weigh just 200g and offer a rotational speed of 4,200 rpm.

The high-speed capabilities of the USB 2.0 interface are fully optimised when the computer is fitted with a USB 2.0 host-adapter. However owners of USB 1.1-equipped computers can still use their peripheral at the old standard's maximum speed and keep the same drive when they upgrade to USB 2.0 or buy a new computer. USB 2.0 is now the new standard and replaces USB 1.1.

The HandyDrive Video edition has two FireWire ports available allowing for other FireWire devices to be connected to the HandyDrive to form a daisy-chain connection. A PC may require a 3rd party interface card to run a FireWire unit.

The HandyDrives are housed in a tough and stylish case and are supplied with a handy carrying case allowing for easy portability and greater protection.

The HandyDrive can be hot-plugged/unplugged. This means that on systems which support plug and play, connecting or disconnecting the unit can take place while the system is up and running, without the need to reboot the system. The drive will then be auto-detected.

The HandyDrive is supplied pre-formatted and no drivers are needed for Windows 2000 and XP, however drivers for earlier Windows systems (except Windows 95 and NT which do not support USB or FireWire) and Mac users can be found on the supplied CD. Mac users must reformat the HandyDrive.

HandyDrive specifications

Model	Data edition (USB 2.0)	Video edition (FireWire)
Transfer rate	480 Mb/sec (60 MB/sec)	400 Mb/sec (50 MB/sec)
Capacities	40, 60 and 80 GB	30 and 40 GB
RPM	4,200 rpm	4,200 rpm
Motor type	'Silent HDD' using FDB motor	'Silent HDD' using FDB motor
Loading	Head load / unload	Head load / unload
Dimensions (H x W x D)	25 x 115 x 100 mm	25 x 115 x 100 mm
Weight	200 g	200 g

Internal drive specifications

Ambient temperature[2]	Op. / Non-op. / Gradient	5°C to 55°C / -40°C to 65°C / 20°C/h
Relative humidity	Op. / Non-op. / Max. wet bulb	8% to 90% RH (non-condensing) / 5% to 95% RH (non-condensing) / 29°C (operating)/40°C (non-operating)
Vibration	Op. / Non-op.	9.8 m/s^2 (1.0G) (5 to 500 Hz) / 49 m/s^2 (5.0G) (5 to 500 Hz)
Shock	Op. / Non-op.	2,205 m/s^2 (225G) 2 ms / 8,820 m/s^2 (900G) 1 ms, 1,176 m/s^2 (120G) 11 ms
Altitude	Op. / Non-op.	-300 to 3,000 m / -300 to 12,000 m
Acoustic noise[3]		24 dBA at 30 cm (typ.) 2.3 bels (typ.)
Mean time between failures		More than 300,000 power on hours
Mean time to repair		Less than 30 min
Component life		5 years or 20,000 power on hours
Error rates	Unrecoverable errors / Seek errors	1 per 10^{13} bits read / 1 per 10^6 seeks
Load/Unload cycles		300,000 cycles
Emergency Unload cycles		20,000 cycles

Notes:
1. Data Edition. Some PCs and laptops are unable to supply the full power level defined by USB standards. In such cases 2 USB ports may be required (USB port sharing cable supplied) or optional PSU may be required.
2. Op. = Operating
   Non-op. = Non-operating
3. HDD ready

Specifications are subject to change without notice. For the latest information, contact your local Fujitsu representative.

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