



**HEIM DATaRec® D5000
storage media cartridges**

The media is built into cartridges, which can be interchangeably used in the D5100, D5200, D5300 and D5400.

MT48 tape drive

Cassette	AIT2: 95 x 62 x 15 mm
Capacity	50 Gbytes native
Recording time	2:45 hours @ 40 Mbit/s, (recording time can be increased with lower bit rate.)
Maximum bit rate	48 Mbit/s
Sustained bit rate	40 Mbit/s
Recording format	helical scan recording
Error correction	read-after-write error checking triple encoded Reed-Solomon
Bit error rate	better than 10 ⁻¹²
Vibration	5 g _{rms} , 20 – 2000 Hz, operating, (built-in vibration isolator)
Acceleration	5 g, in all directions (continuous)
Shock	10 g, 11 ms half-sine wave, operating 40 g, 11 ms half-sine wave, safety
Temperature	-30°C ¹⁾ – +40°C, operating
Storage temp.	-40°C – +60°C, (long term)
Humidity	20 – 90% relative, non-condensing
Altitude	0 – 18.000 m (0 – 65.000 ft)

MSxxx solid state drive

Media	flash based solid state storage
Capacity	up to 128 Gbytes
Maximum bit rate	240 Mbit/s
Bit error rate	better than 10 ⁻¹⁴
Vibration	10 g _{rms} , 10 – 2000 Hz, operating
Acceleration	10 g, in all directions (continuous)
Shock	20 g, 11 ms half-sine wave, operating 40 g, 11 ms half-sine wave, safety

Temperature	-40°C – +75°C, operating
Storage temp.	-40°C – +70°C, (long term)
Humidity	0 – 95% relative, non-condensing
Altitude	no limit

MSLxxx hard drive disk

Media	flash based solid state storage (MLC-type)
Capacity	up to 128 Gbytes
Maximum bit rate	240 Mbit/s
Bit error rate	better than 10 ⁻¹⁴
Vibration	5 g _{rms} , 10 – 2000 Hz, operating
Acceleration	5 g, in all directions (continuous)
Shock	10 g, 11 ms half-sine wave, operating 40 g, 11 ms half-sine wave, safety
Temperature	-30°C ¹⁾ – +50°C, operating
Storage temp.	-40°C – +70°C, (long term)
Humidity	20 – 90% relative, non-condensing
Altitude	no limit

IRIG 106 chapter 10 option

The IRIG 106 chapter 10 option is marked with a "/1". With this option the media cartridges have the following added functionality.

Download port	IEEE 1394b
Directory structure	STANAG 4575

The operating temperature for MSxxx cartridges is limited to
Temperature - 30°C – +60°C, operating
Storage temp. -40°C – +70°C, (long term)

This option is available for MSxxx, MSLxx (no declassify) cartridges.

Notes

¹⁾ special start-up procedure required