



**HEIM DATaRec® D20fe/D120f/D200f
storage media cartridges**

The media is built into cartridges, which can be interchangeably used in the D20fe, D120f, D200f and GSR series. All cartridges are identically used to allow data acquisition with flight certified equipment and analysis with laboratory systems.

CTA48 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 better than 10 ⁻¹²
Bit error rate	5 g, MIL-STD-810E, category 4, 5 and 6 (built-in vibration isolator)
Vibration	5 g, in all directions (continuous)
Acceleration	10 g MIL-STD-810E
Shock	- 30 °C ¹⁾ - + 45 °C, operating
Temperature	- 40 °C - + 70 °C, (long term)
Storage temp.	20 – 90% relative, non-condensing
Humidity	0 – 18.000 m (0 – 65.000 ft)
Altitude	

CSxxx 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, MIL-STD-810E, category 4, 5 and 6

Acceleration	20 g, in all directions (continuous)
Shock	20 g MIL-STD-810E
Temperature	-30°C – +65°C, operating
Storage temp.	-40°C – +70°C, (long term)
Humidity	0 – 95% relative, non-condensing
Altitude	no limit

CSLxxx hard disk drive

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, MIL-STD-810E, category 4, 5 and 6
Acceleration	10 g, in all directions (continuous)
Shock	15 g, MIL-STD-810E
Temperature	-30°C ¹⁾ – +45°C, operating
Storage temp.	-40°C – +60°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

This option is available for CSxxx, CSLxxx (no declassify) cartridges.

Notes

¹⁾ special start-up procedure required

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