

DV and Audio Storage Requirements

DV Video

The DV format, regardless of its mode (miniDV, DVCAM, DVC-Pro) has a datarate of approximately 25mb/s (mega-bits per second). In storage terms, this translates to approximately 3.5MB/s (MegaBytes per second) or 13GB/hr (GigaBytes per hour).

Also See: [Rorke Storage Calculator](#)

DV Storage Capacities by Size

10 GB
45 min
20 GB
1.5 hours
40 GB
3 hours
60 GB
4.5 hours
80 GB
6 hours
100 GB
7.5 hours
120 GB
9 hours
180 GB
14 hours
200 GB
15.5 hours
400 GB
31 hours
500 GB
.5 TB
39 hours
1000 GB
1 TB
79 hours
10 TB
793 hours
100 TB
7,936 hours
1000 TB
1 PB
79,365 hours

DV Storage Capacities by Time

5 minutes
1 GB
10 minutes
2.1 GB
15 minutes
3.1 GB
30 minutes
6.3 GB
1 hour
12.6 GB
2 hours
25.3 GB
3 hours
37.9 GB
4 hours
50.6 GB
5 hours
63.2 GB
10 hours
126.5 GB
25 hours
316 GB
50 hours
632 GB
75 hours
949 GB
100 hours
1.26 TB
250 hours
3.16 TB
1000 hours
12.6 TB

Digital Audio

Mono CD quality audio has a datarate of approximately 700kb/s (kilo-bits per second). Stereo audio has a datarate of approximately 1.4mb/s (700kb/s x 2 channels). This translates to approximately 10MB (MegaBytes) of harddisk storage per minute.

DV & DAT often record at a slightly higher sampling rate (48,000 16 bits samples per second). This translates to a slightly higher datarate of 1.5mb/s. The approximation of 10MB per minute is still a good approximation.

Digital Audio Storage Capacities by Time

(approximate values apply to both 44.1kHz and 48kHz sampling rates at 16 bit)

1 channel

2 channel

4 channel

8 channel

5 minutes

26 MB
53 MB
106 MB
212 MB

10 minutes

53 MB
106 MB
212 MB
423 MB

15 minutes

79 MB
159 MB
318 MB
635 MB

30 minutes

159 MB
318 MB
635 MB
1.2 GB

1 hour

318 MB
635 MB
1.2 GB
2.5 GB

2 hours

635 MB
1.2 GB
2.5 GB
5.0 GB

3 hours

953 MB
1.9 GB
3.8 GB
7.6 GB

4 hours

1.2 GB
2.5 GB
5.0 GB
10.1 GB

5 hours

1.5 GB
3.1 GB
6.3 GB
12.7 GB

10 hours

3.1 GB
6.3 GB
12.7 GB
25.4 GB

20 hours

6.3 GB
12.7 GB
25.4 GB
50.8 GB

30 hours

9.5 GB
19.0 GB
38.1 GB
76.2 GB

40 hours

12.7 GB
25.4 GB
50.8 GB
101 GB

50 hours

15.8 GB
31.7 GB
63.5 GB
127 GB

75 hours

23.8 GB
47.6 GB
95.2 GB
190 GB

100 hours

31 GB
64 GB
127 GB
254 GB

200 hours

64 GB
127 GB
254 GB
508 GB

1000 hours

317 GB
635 GB
1.2 TB
2.5 TB