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Bitrate,

, 1 . bps(**b**its **p**er **s**econd) , Kbps(**k**ilo**b**its **p**er **s**econd), Mbps(**M**ega**b**its **p**er **s**econd) .

,

.

- **bit** : b, Mb, 1
- **byte** : B, MB, 1byte=8bit

16bit 44.1kHz 1 16bit 44100

- Mono 16bit 44.1kHz 16 x 44100 = 705,600 bps, 705kbps
- **Stereo 16bit 44.1kHz 16 x 44100 X 2 = 1,411,200 bps, 1.4Mbps**
- Mono 24bit 96kHz 24 x 96000 = 2,304,000 bps, 2.3Mbps

.

bit/s, bps(1) ,

Stereo 16bit 44.1kHz **1411kbps** (**k**ilo **b**it **p**er **s**econd, 1) .

MP3 192kbps 1 192K = 192000bps
[1]
.

(**kbps**) (**kHz**), (16bit, 24bit)
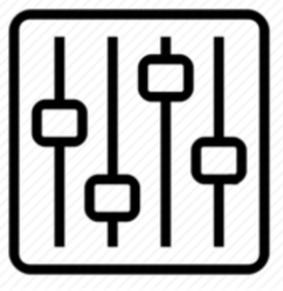
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HDD SSD

. SSD

. / HDD ,

/ HDD SSD .

- 16kbps: Spoken word
- 32kbps: Talk show
- 48kbps: AM radio
- 64kbps: FM radio
- 96kbps: Near CD quality
- 128kbps: DAB quality(Digital Audio Broadcasting : Streaming)

- 192k bps: CD quality
- 256k bps: Studio quality
- 320k bps: Pro quality

1080p 1920× 1080 pixel .

1pixel 3 , 1
8bit (256) .

, 1pixel = RGB 24bit .

1 frame 1920 x 1080 x 24bit .

1920 x 1080 x 24bit = 49,766,400 bit = 50Mbit

1 24frame **50Mbit x
24frame** (bit/s) .

50 x 24 = 1200Mbps (Mega bit per second) .[2]

8bit 1080p 24fps = 1200Mbps .

1080p 24fps 50Mbps 25Mbps
.

50Mbps , 1

50Mbps x 60 = 3000Mbps = 375Mbyte, MB (3000/8, 1byte=8bit)

1

375MB x 60 = 22500MB = 22.5GB

CBR, VBR, ABR

- CBR : Constant Bitrate, , .
- VBR : Variable Bitrate, , .
- ABR : Average Bitrate, , .

.

bit
[1]

[PCM](#) wave (1411k[bps](#)) 1/10

[2)](#)

1 150Mbyte, 1 9GB, 1 540GB, RAW .

[PCM](#) wave (1411k[bps](#)) 1/10

1 150Mbyte, 1 9GB, 1 540GB, RAW .

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