

# Jim's Digital Video Analysis or How To Get So Much Video On Such A Little Disc

$720 \times 480 = 345,600$  .....(pixels per frame)

$345,600 \times 3 = 1,036,800$ .....(bytes per frame)

$1,036,800 \times 30 = 31,104,000$ .....(bytes per second)

$31,104,000 \times 60 = 1,866,240,000$ .....(bytes per minute)

$1,866,240,000 \times 60 = 111,974,400,000$ .....(bytes per hour)

.avi file = 13 gig per hour

$112 \text{ gig} \div 13 \text{ gig} = \mathbf{8.6 : 1}$  (compression ratio)

mpg file = 2 gig per hour (approx.)

$112 \text{ gig} \div 2 \text{ gig} = \mathbf{56 : 1}$  (compression ratio)

