

If we want to store 6 bits per perel in the frame buffer how much storage in bytes do we need for the frame buffor Calculate aspect ratio.

Resolution in pixels: (8 ×100) × (10×100) pixels

Required frame biffer size = 800 × 1000 × 6 into = 800×1000×6 bytes = 6×105 bytes

Asfect Ratio = width 800 = 4 height 1000 = 5 = 4:5

2 How long would it take to load a (640 x 480) frame buffer with 12-bite per pivels if 105 bits can be transform per second? How long would it take to lond a 24-but per pexel from buffer with a resolution of 1280 by 1024 using the same townsfor rati? 2020 of frame buffer = 640 × 480 binels =640 × 480×12 bits [1 1 pixels => 12 bits] 00 105 bits take I second to transfer :. Time needed to transfer 640x 480x 12 bits = 640×480×12 236 864 Ges. 3 consider a raster system with sosolition 640 x 480.
How many pixels could be accessed per second in each of these systems by a display controller that refreshes the screen at a rate of 60 frames per second. Notat is the access time per pixel? Resolutions 640×480 1. NO of pixels in our frame = 640 × 480 = 304200 · Controller com access 60 frames in 1 sec 1. Total no. of pinels accessed = 60 × 307200 =18432000/sec Access time per pinel = 1/total pinels accessed per sec. For those onuch time is spent scanning accross each soul of papels during screen refresh and roster System with a resolution of 1280 by 1024 and a refreshoate of 60 frames per seconds?

Resolution = 1280× 1024 : 1024 scan lines

Refresh Rate = 60 frames/see refresh Rate = 60 frames/see : I frame contains 1024 soon lines 60 frams takes I see for refreshing : 1 frame takes 60 sec 1024 scan lines = 1024 sean line = 1 x 1024 sec = 58 mg

(5) robot is the resolution of a 2x2 inch inage with 512×512 pixels?

Image size= 212 inches Pixals = 512 x 512 paixels

: Resolution = 512 = 256 peruls / inch

6 what is the size of a 640 x 480 image at 240 perch per inch?

size of image = 640 by 480

= 8 = 23 by 2 inches

(An image has a height of sinches and an affect ratio of 205, what is the widte? width = 205 x 3 = 7.5 inches