



DIGITAL VIDEO SCREEN DEVICE

ABSTRACT

5 Device for a digital video screen comprising one or more printed circuit substrates on which are mounted one or more integrated circuits covered by a one-piece display surface. The display surface is covered by one or more
10 luminous substances that are excited by the integrated circuits placed underneath. A video screen is formed where each subpixel is composed of a certain number of basic luminous units activated or deactivated by electrical switches on logic controls. Binary words are
15 applied on the logic controls, and correspond to values of desired colors for each sub-pixel in such a way that the image refresh rate is independent of the loading rate, the rate of change, the resolution of the displayed image and the dimension of the video screen.

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FIELD OF INVENTION

The present invention relates to a video screen characterized by a display device that is entirely digital having non-limiting applications in computer
25 video screens and televisions having a small thickness and having a large, one-piece display that is planar, cylindrical or spherical.

BACKGROUND OF THE INVENTION

30 Nearly all elements of today constituting the "video chain" are digital, since the capture of an image by CCD cell digital cameras, image processing, transmission and reception of digital circuit televisions.

35 Nevertheless, in the present state of technology, video screens belonging to the "last link", specifically video