

FLATSCREEN[®] VIDEO BY Lucitron[®] ... A NEW

- VERY LARGE
 - THIN
 - FLAT
- ## DISPLAY SCREEN

The Product

FLATSCREEN PANELS . . . LARGE, FLAT, BRIGHT VIDEO DISPLAYS. Our *Gas-Electron-Phosphor (GEP)* displays can be four square feet or more in area . . . by only three inches thick. In fact, regardless of screen area, *panel thickness remains the same.*

LIKE TV PICTURE TUBES (CRTS), FLATSCREEN panels display live TV as well as alphanumeric or computer-generated graphics. **FLATSCREEN** panels will show all the gray tones a good CRT can reproduce, *even in a well-lit room.*

UNLIKE CRTS, FLATSCREEN panels are neckless. They require no electron guns, no shadow mask, no deflection coils, and no convergence adjustments. *They pack a whole lot of picture into a very thin space.*

HIGH INFORMATION CONTENT. The bigger the panel, the more data can be displayed. (This is not true for CRTs or projectors.) **FLATSCREEN** displays are uniformly sharp and bright from edge to edge, corner to corner.

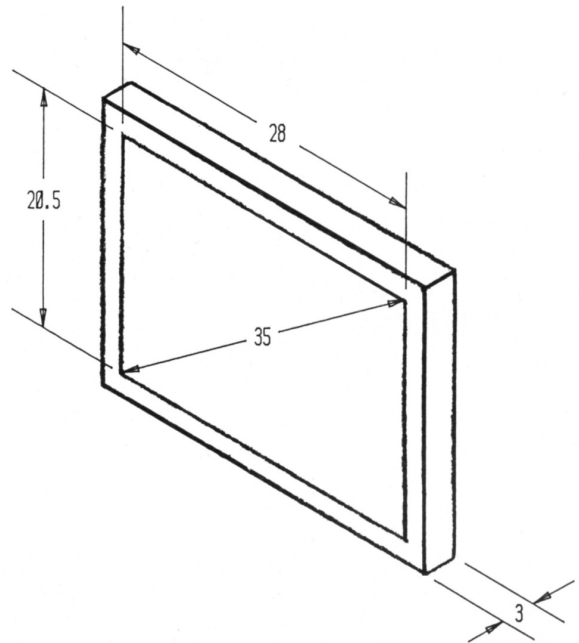
OUR FIRST PANELS are monochrome and measure 35 inches from corner to corner (21½ x 28 inches). They have twice the area of a 25-inch color CRT. Larger panels will be developed. Work on color **FLATSCREEN** panels is well under way.

The Applications

● MILITARY

FIRST APPLICATIONS will be in COMMAND AND CONTROL . . .

- Combat information centers
- Flag-plot rooms
- War rooms
- Situation and status displays



THE US NAVY and major military contractors have placed contracts and orders for our first panels.

We anticipate military sales of \$180,000 in our fiscal year 1986, rising to \$30,000,000 in our fiscal 1991.

● CIVILIAN

MANAGEMENT INFORMATION SYSTEMS; CONTROL SYSTEMS. Where groups of people must interact with electronic data *and with each other*, **FLATSCREEN** panels will be brighter and more convenient than projectors.

COMPUTER OUTPUTS. **FLATSCREEN** panels can work with any type of computer.

TELECONFERENCING. Readily moved and viewable in ordinary room light, **FLATSCREEN** panels will make teleconferences more convenient.

ELECTRONIC SIGNS. For use in airports, stock and commodity exchanges, brokerages, and as advertising displays in shopping malls.

TRAINING AND SIMULATION. Big displays can be seen by all the students, even if each student is behind his own computer console. Big, bright pictures make realistic flight simulators and other training devices.



The first developmental 34B **FLATSCREEN**® panel.

MANY OTHER APPLICATIONS, like medical uses, CAD/CAM, "soft-copy" displays for construction bosses . . . the list goes on and on.

We anticipate civilian sales of \$135,000 in our fiscal 1986, rising to \$72,000,000 in fiscal 1991. These estimates do not include consumer TV. **FLATSCREEN** panels will begin to be an important part of that market starting in about 1994.

The Technology

LUCITRON'S FLATSCREEN PANEL uses a cold-cathode gas discharge for a source of electrons and for scanning. A concentrated anode glow—the *plasma sac*—is moved from point to point by row and column electrodes. Electrons are extracted from the plasma sac, modulated, and accelerated to from 4,000 to 10,000 volts to excite CRT phosphors. (CRTs operate at from 15,000 to 30,000 volts. *At our lower voltage, no X-rays are emitted from the panel.*) Because the light comes from phosphors, any color or combination of colors can be generated.

OTHER FEATURES of the **FLATSCREEN** panel are: Simple electronic circuitry, which will cost less

than the circuits for other types of matrix displays. For convenience in packaging and servicing, the circuitry can be located 10 feet or more away from the panel. Because their construction features internal supports, **LUCITRON'S FLATSCREEN** panels will weigh much less than CRTs of comparable size—only some 6½ pounds per square foot of display area. (RCA's planned 35-inch CRT weighs 35 pounds per square foot.)

PATENTS. **LUCITRON** owns all the relevant patents on the basic design and various construction techniques.

The Company

LUCITRON was founded in 1978 to perfect the ideas of the Gas-Electron-Phosphor display invented at Zenith Radio Corporation. **LUCITRON** subsequently acquired patents and know-how from Zenith.

WE HAVE DEVELOPED the basic ideas to the state of *real four-square-foot displays*. The picture shows the first of these. Future displays will be bigger, brighter, have higher information density, and be in full color.

STRATEGY. We are looking for investments of \$6,000,000 over the next four years to move our technology into the marketplace. We shall concentrate on large displays. This is an area where our technology is stronger than our competitors'. Also, this market will respond to small quantities of relatively expensive devices.

THE FOUNDERS OF LUCITRON are Joseph Markin, President; Dr. Alan Sobel, Vice President, Operations; and Michael DeJule, Vice President, R&D and inventor of the **FLATSCREEN** concept. The company is privately held.

LUCITRON currently has 23 full-time and several part-time employees and occupies 9,500 square feet in a suburb of Chicago.

Lucitron inc

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