DESCRIPTION

Product:

LCD Tablet Model DTZ-2100

Manufacturer:

Name Coretronic Corporation

Address No.2, Ke Bei Rd. 5th, Science Park, Chu-Nan 350, Miao-Li County, Taiwan

Electrical Rating:

Voltage: AC100～240V

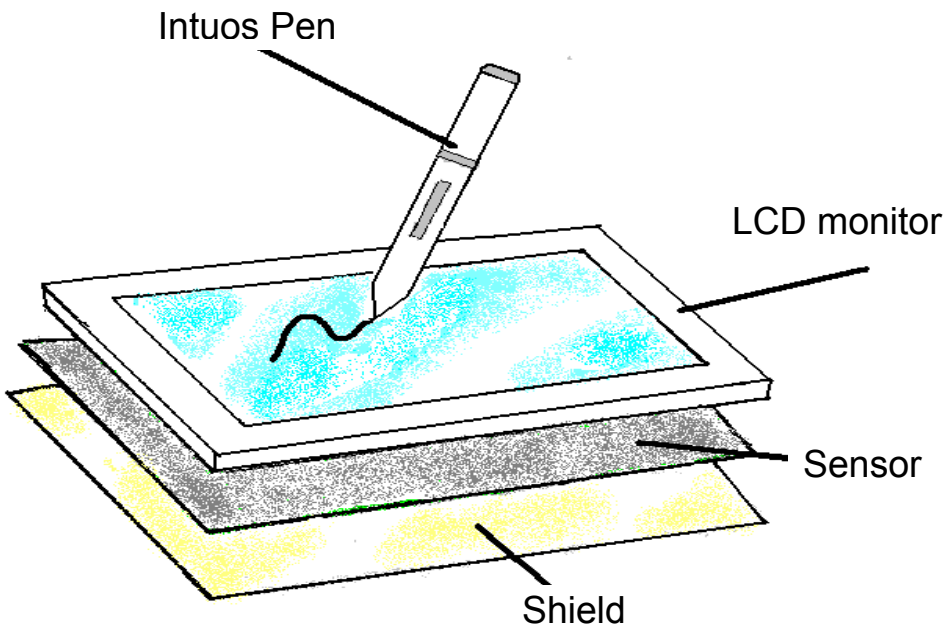
Power Consumption: 80 watts or less

DTZ-2100 is an input / output integrated device for a computer, using Wacom's sensor, an erasing Intuos Pen and a 21.3 inch TFT color LCD monitor.

The tablet continuously transmits data to and from a Intuos Pen.
When transmitting, the tablet sends a signal to the Intuos Pen. The Intuos Pen stores energy from the signal.

When receiving, the Intuos Pen sends a signal that carries coordinate, switch, and pressure data back to the tablet. The tablet sends this data to the computer.

DTZ-2100 provides a Pen computing.



The intentionally radiated frequencies

The intentionally radiated frequency is 667kHz.
All the other frequencies are unintentionally radiated.

A. Antenna

The sensor board has two groups of multiple loop coils in X (horizontal) and Y (vertical) directions. Radio frequency energy is radiated from these coils.

Each coil is approximately 26.0mm wide and as long as the height, for the X-axis, and width, for the Y-axis, of the effective area of the tablet. Each coil consists of 8 turns (loops) of copper conductor.

B. Original oscillation frequency and intentionally radiated frequency

We make one (667kHz) intentionally radiated frequency from the original oscillation frequency of 16MHz by ASIC (Gate Array W4027F).

C. Operation

The tablet looks for a pointing device, such as a stylus, by feeding electrical current of above-mentioned frequencies through the coils in both X axis and Y axis. The current fed through each coil is not more than 200mA .

The tablet is able to detect the position of a pointing device because of the induction caused between the coil of the pointing device and two coils, one from X-axis and the other from Y-axis, of the sensor board.

D. Comment on pointing device

The pointing device operates completely passively and has no battery or active oscillator.