Jensen
Technical
Services

SCROLL SLIM DESCRIPTION

The Scroll SLIM Imaging System provides a full web width scroll of the moving web material. The main features are:

A. General Information

- The system displays a line by line scroll color image of full web width.
- Scroll movement is synchronized normally with web movement, but can also be configured to update with each new scan line.
- The user menus are all provided in an OS9 Windows environment for easy use with a mouse.
- A scroll zoom operation mode allows for viewing narrower widths and regions,
- The line scan image colors are selected from user selectable color scale menus. The contrast is easily adjusted from a scroll bar on the bottom of the user window.
- Up to four input channels can be configured into the system. The scroll scan line data is collected for all channels (but only one can be displayed at a time)
- Images can be saved and stored on the SLIM hard drive for review later,
- The Last Material function allows viewing of full video memory in all input channels,
- The scroll speed can be adjusted by a software parameter which skips "x" number of scroll lines then displays a line. These skipped lines deal with the displayed lines only, all scanner/camera scan lines are still converted and stored in memory.
- SLIM can be networked to allow saved images to be transferred to other plant computers. Remote access to SLIM via telnet is also available.
- The Scroll SLIM system can be easily upgraded to do defect capture, display, and storage by installing the appropriate software updates.
- The Scroll SLIM is mounted in a portable 19" rack which can easily be placed anywhere near the source scanning system or even placed on a cart. The approximate dimensions of the rack are 17"x 21"x 20" (LxWxH). There is space on top of the rack for the color monitor and mouse pad.

B. Technical Notes:

- The input video signal to SLIM can be positive or negative going pedestal, the blank zone must be at or near zero volts. JTS can provide zero volts clamping hardware if needed. Dynamic range of the video signal is 5 volts maximum.
- The SLIM system also needs a start of scan synch signal from the source system.
- The conversion specs of the LICAD A/D board are: 20 MHz maximum pixel rate, 8 bit resolution.
- The graphics processor board is capable of 256 colors from a palette of 266,000 colors. The resolution used is 1024 x 768 pixels, 60 Hz frame rate (other rates available)
- Each input channel uses an 8 MB memory board where the converted line scans are stored. This memory can be configured for different application setups.
- The SLIM system is a VME based system that uses the Motorola 680x0 series CPUs and runs Microware OS9 operating system.
- The system hard drives are interfaced through the CPU SCSI bus. Their capacity varies depending on the application, they range from 200MB to 4.3GB.
- SCSI tape drives (QIC, DAT) are available for system backups and for system software upgrades.
- An Ethernet option is available to connect SLIM to the plant network.