

LEVEL SLICE

OUTPUT DISPLAY CODING: Allows the classification of image data into brightness bands separated by iso-intensity contour lines. Bands are displayed as unique colors or gray levels depending upon output monitor selection. Color sequence is preset at ISI.

NUMBER OF BANDS: 8

BAND SIZE CONTROLS: Provide independent adjustment of the boundaries of all bands, permitting complete flexibility in selecting linear, logarithmic, or other band size relationships.

BAND SIZE MULTIPLIER: Expands or compresses all bands simultaneously. 100:1 range.

BAND INTENSITY CONTROLS: The displayed brightness of each band can be independently varied from zero to full output, allowing only selected bands to be displayed.

VIDEO INTENSITY: Allows the superposition of unprocessed image data and level sliced data on the display.

TEST: Displays a series of test bars on the monitor, the width of which are proportional to the relative band size settings.

ISOMETRIC PROJECTION

OUTPUT DISPLAY CODING: Provides a pseudo three dimensional presentation where the X-Y coordinates of the input image are displayed in isometric projection, and brightness information is shown as apparent 3-D relief (*vertical deflection on the display*).

ROTATION CONTROL: Provides $\pm 180^\circ$ rotation of the presentation.

TILT CONTROL: Provides inclination of the presentation from 0 to 90 degrees.

RELIEF CONTROL: Varies the apparent 3-D relief. Inverting control allows positive or negative relief presentation.

MAGNIFICATION CONTROL: Provides a 5X electronic expansion of the presentation.

CURSOR

CROSSHAIRS: Horizontal and vertical crosshairs can be positioned to any point on the image with independent controls.

SCAN LINE PROFILE

OUTPUT DISPLAY CODING: Displays a profile of the brightness information along any horizontal scan line.

SCAN LINE SELECTOR CONTROL: Selected scan line is determined by location of the horizontal crosshair.

DIGITAL METERING CIRCUIT

OUTPUT DISPLAY CODING: Presents the following types of information on a built-in 3-1/2 digit panel meter.

LEVEL: Indicates the brightness value at each level slice band boundary, as set by the Band Size Controls.

AREA: Indicates the relative area of the image displayed in each level sliced band. A calibration control scales readings to conform to actual image parameters.

X-COORDINATE: Indicates the X coordinate at the point of crosshair intersection. A coordinate calibration control also allows coordinate scaling.

Y-COORDINATE: Indicates the Y coordinate at the point of crosshair intersection.

POINT: Indicates the brightness of the image at the point of crosshair intersection. A calibration control allows scaling of this output.

SCAN FORMATS

STANDARD 60 Hz SYSTEMS: 525 lines per frame, 30 frames per second, 2:1 interlace.

STANDARD 50 Hz SYSTEMS: 625 lines per frame, 25 frames per second, 2:1 interlace.

OTHER SYSTEMS:

- Field Rate: Available from 45 to 65 fields per second.
- Interlace: 1:1 available.
- Lines Per Frame: Available from 200 to 1000 lines.

INPUTS

POWER: 117/230 VAC 50/60/400 Hz, 100 VA.

VIDEO: EIA standard or 0.7 volts nominal, 75 ohm or 1000 ohm, DC coupled or DC restored, BNC.

SYNC (ANY OF THE FOLLOWING):

- Video Composite
- External Composite: Positive or negative, 0.35 to 25 volts, BNC.
- External Separate: Positive or negative, 0.35 to 25 volts, BNC.
- T²L Composite: Sync levels T²L compatible, digital connector input.

OUTPUTS

COLOR MONITOR OUTPUTS: Red, green and blue, 0 to +1 volt into 75 ohm, BNC. (*These outputs are suitable for RGB input television monitors.*)

XYZ DISPLAY MONITOR OUTPUTS:

- Horizontal: ± 1 volt at 50 ohm or ± 5 volts at 1K ohm, BNC.
- Vertical: ± 1 volt at 50 ohm or ± 5 volts at 1K ohm, BNC.
- Intensity: ± 1 volt at 50 ohm, BNC.

MONOCHROME MONITOR OUTPUT: 0 to +1 volt into 75 ohm, BNC.

SYNC: T²L composite through digital connector.

PERFORMANCE

BANDWIDTH: 8 MHz

LEVEL SLICE RISE TIME: 40 nsec.

MECHANICAL

DIMENSIONS: 17" wide x 5.25" high x 15" deep. Standard 19" rack mounting possible.

WEIGHT: 20 lbs.



INTERPRETATION SYSTEMS INCORPORATED

P. O. BOX 1007 • LAWRENCE, KANSAS 66044 • PHONE 913/842-0678