DELTA Digital Video

MODEL SSC/624

STROKE-TO-VIDEO SCAN CONVERTER

TECHNICAL SPECIFICATIONS

FEATURES

- Self-contained, rack-mountable version of the popular SSC/220 Module
- Converts XYZ stroke signals (such as radar, sonar, HUD, and spectrum analyzer) to raster video
- Selection of RS-170, PAL, or SVGA output formats
- Advanced scaling algorithm provides excellent quality video output
- Accepts a wide range of stroke (XYZ) input signals
- Choice of six user-selectable decay rates
- Internal test signal confirms proper operation or provides fault isolation
- Gen-lock to external video signal (RS-170 or PAL)

BENEFITS

- Signal can be viewed using low cost, off-the-shelf TV monitors
- Signal can be recorded using standard TV recorders

FRONT

BACK

DESCRIPTION

The Model SSC/624 Stroke-to-Video Scan Converter converts stroke video from XYZ vector to a standard raster video format. Stroke video is generated by a variety of random-deflection devices, including certain radar and sonar devices, spectrum analyzers, and Heads Up Display (HUD) generators. Three video output standards are provided via strapping option: RS-170, PAL, or SVGA. After conversion, the video can be recorded using standard TV cassette recorders and viewed using low cost, off-the-shelf monitors.

High quality video is generated by a combination of high frequency sampling and an advanced scaling algorithm. Scaling is an important consideration when converting computer-generated graphics or alpha numerics. Scaling in the SSC/624 is done using multitap FIR filtering and advanced horizontal and vertical interpolation to generate an 8-bit (256 level), high resolution video signal. A selection of six different decay rates provides for emulation of a wide variety of stroke monitors.

The SSC/624 can accept signals in a stroke format, raster format, or a mixed stroke and raster format. Some stroke-generating devices have the ability to change the output signal between stroke and raster format in order to accommodate special display information. The SSC/624 can be adjusted to ensure that both the stroke and raster data appear in their proper location and intensities in the same output video signal.

An internal gen-lock capability, which locks the (output) converted signal to either another video or composite sync signal, provides a common time base with an external video system.

A division of Delta Information Systems, Inc.

300 Welsh Road, Building 3 • Horsham, PA 19044-2294 • Tel (215)657-5270 • Fax (215)657-5273 • www.delta-info.com/ddv

MODEL SSC/624

STROKE-TO-VIDEO SCAN CONVERTER SPECIFICATIONS

SIGNAL INPUTS

X AND Y POSITION INPUTS

- Customer specified
- Typical values:
  - Balanced 1 to 10V p-p
  - Offset +/- 5V
  - 75 ohm termination
  - Signal inversion via strapping
  - Balanced/Unbalanced via strapping

Z INTENSITY INPUTS (STROKE AND RASTER)

- Customer specified
- Typical values:
  - Unbalanced 0.5 to 5V
  - Offset +/- 5V
  - 75 ohm termination
  - Signal inversion via strapping
  - Balanced/Unbalanced via strapping

GEN-LOCK INPUT

- RS-170 or PAL composite video
- Composite video: 1V p-p
- RS-170 or PAL composite sync
- Composite sync: 4V p-p or TTL

STROKE/RASTER INPUT

- TTL level

SIGNAL OUTPUTS

VIDEO OUTPUT

- Choice of RS-170A and PAL
- With or without composite sync via strapping
- Composite video 1Vp-p when terminated with 75 ohms
- SVGA (800 x 600)

ADDITIONAL SPECS

XYZ INPUT BANDWIDTH

- 6 MHz

SAMPLING RATE

- Twenty (20) Megasamples per second

CONTROLS

- Test/Operate
- XYZ amplitude and offset
- XY delay adjustment
- Decay rates
  - Choice of 6 switch-selectable rates with 3 decay kernels
  - Choice of 1/30th or 1/15th second per step

CONNECTORS

- BJ74-47 Triaxconnectors for XYZ
- BNC for Genlock input, video and sync outputs
- Corcom 6EGSI-1 for AC

SIZE

- 16.75"W* x 12"D x 1.75"H
  *without the 19-inch rack mounting flanges

ENVIRONMENT

- Operating temperature: 0°C to 50°C

POWER REQUIREMENTS (J1 CONNECTOR)

- 100 to 250 Vac
- 50 or 60 Hz

DELTA Digital Video

A division of Delta Information Systems, Inc.

300 Welsh Road, Building 3 • Horsham, PA 19044-2294 • Tel (215)657-5270 • Fax (215)657-5273 • www.delta-info.com/ddv