The Extron VSC 700 and VSC 700D are single input, high resolution computer-to-video scan converters that combine high performance with an expanded feature set and innovative technologies. Both models are ideal for use in a range of integrated A/V systems, including broadcast applications, videoconference facilities, conference rooms and boardrooms, and rental and staging environments.
**DESCRIPTION**

The Extron VSC 700 and VSC 700D High Resolution Computer-to-Video Scan Converters combine high performance processing with an expanded feature set designed for easy integration. They accept computer-video signals at resolutions up to 1920x1200 and simultaneously output a scan-converted video signal as NTSC or PAL composite video, S-video, and component video or RGB video. In addition, the VSC 700D includes a fourth, SDI serial digital video output. The VSC 700 and VSC 700D are ideal for use in a wide range of applications, including videoconferencing, video recording, and viewing of computer-video images on an NTSC or PAL monitor or other video display device.

Both models feature Auto-Image setup for automatic adjustment of centering, sizing, and filter settings. Additional key features include zoom control up to 200%, a color bar generator, an LCD display for user-friendly menu navigation, memory presets, and a buffered loop-through for local monitor output. For broadcast and production applications, the VSC 700 and VSC 700D include video genlock capability for synchronization to an external reference signal. The VSC 700D adds an SDI output for integration into digital broadcast and production systems.

The VSC 700 and VSC 700D can be controlled via the front panel, RS-232 or RS-422 serial control, or the optional VSC Remote handheld IR remote control. They are housed in rack-mountable 1U, half rack width enclosures and are equipped with an internal international power supply.

**FEATURES**

- **Automatically recognizes and converts computer resolutions from 560x384 to 1920x1200 and frequencies to 100 kHz horizontal and 120 Hz vertical**
- **Buffered loop-through** – Provides a local monitor output, enabling the computer input signal to be monitored without the need for a separate distribution amplifier.
- **Three simultaneous outputs** – NTSC or PAL standard video is output as composite video, S-video, and component or RGB video.
- **Optional SDI output** – The VSC 700D features a SMPTE 259M- and ITU.R BT-601-compliant SDI serial digital video output that facilitates the integration of computer-video signal sources into digital broadcast and production applications.
- **Auto-Image setup** – Saves time by providing calibration of image size, position, clock, and phase adjustments at the touch of a button.
- **Vertical filtering** – Five selectable vertical filters reduce jitter, improve image quality, and help maintain picture detail.
- **Horizontal filtering** – Four selectable horizontal filters prevent aliasing or pixel elimination so that less detail is dropped when the image is scanned from left to right.
- **Sizing and centering controls** – User-friendly positioning is accessible through the front panel for quick and efficient image setup.
- **Image zoom control and presets** – Eight zoom presets are available for recalling size, position, and filtering, enabling the user to quickly zoom in on a certain area of an image.
- **Input memory presets** – Allow the scan converter to automatically recall up to 16 user presets, 60 factory presets, and eight zoom presets. Each memory location stores filter, size, and centering, or zoom settings for each source which can be recalled instantaneously when switching between different computer-video inputs and resolutions.
- **Image freeze control** – The output video can be frozen using the freeze button on the front panel. This allows the scan converter to capture a frame of video to display for an extended period of time, even after the source has been removed.
- **Internal color bar generator** – An internally-generated color bar pattern is provided for simplified setup of a display. The color bar pattern or a black screen can also be set as the default output when no input signal is present.
- **Video genlock** – All NTSC and PAL video outputs can be synchronized to an external reference signal for integration into broadcast and production applications.
- **RS-232 and RS-422 serial control port** – Using serial commands, the VSC 700 and VSC 700D can be controlled and configured via the Extron Windows®-based control program, or integrated into third-party control systems. Extron products use the SIS™ - Simple Instruction Set command protocol, a set of basic ASCII code commands that allow for quick and easy programming.
- **Optional IR remote control, part # 70-206-01** – The optional VSC Remote handheld IR remote control performs most front panel functions such as image freeze, zoom in and out, size and shift, vertical filter adjustment, and preset selection.
- **Front panel security lockout** – This feature locks out all front panel functions except for input selection; all functions however, are available through RS-232 control.
- **Rack-mountable 1U, half rack width metal enclosure**
- **Internal international power supply** – The 100-240VAC, 50/60 Hz, autoswitchable internal power supply provides worldwide power compatibility.

**ALSO AVAILABLE**

The Extron VSC 900D Two Input High Resolution Computer-to-Video Scan Converter with Genlock and SDI Output builds on the performance and features of the VSC 700, with two RGBHV inputs on BNCs and 15-pin HD, each with a buffered loop-through for simplified integration. In addition to SDI output and video genlock, the VSC 900D offers additional filter adjustment capability to further refine image quality.
### SPECIFICATIONS

#### VIDEO INPUT
- **Number/signal type**: 1 RGBHV, RGBS, RGsB with 1 buffered loop-through
- **Connectors**: 2 x 5 female BNC (5 for input, 5 for loop-through)
- **Nominal level**: 0.7 Vp-p for RGB
- **Minimum/maximum levels**: 0 V to 2.0 Vp-p with no offset at unity gain
- **Impedance**: 75 ohms
- **Horizontal frequency**: Autoscan 24 kHz to 100 kHz
- **Vertical frequency**: Autoscan 50 Hz to 120 Hz
- **Resolution range**: 560 x 384 to 1920 x 1200
- **DC offset (max. allowable)**: 2.0 V
- **External sync (genlock)**: 0.3 V to 1.0 Vp-p

#### VIDEO PROCESSING
- **Color**: 16.8 million
- **Digital sampling**: 24 bit, 8 bits per color
- **Encoder**: 10 bit digital

#### VIDEO OUTPUT
- **Number/signal type**: 1 RGBHV, RGBS, RGsB, or component video
- **Connectors**: 5 BNC female: RGBHV/RGBS/RGsB/component video
- **Nominal level**: 0.7 Vp-p for RGB
- **Minimum/maximum levels**: 0.0 V to 1.0 Vp-p
- **Impedance**: 75 ohms

#### SYNC
- **Input type**: Autodetect RGBHV, RGBS, RGsB
- **Output type**: RGBHV, RGBS, RGsB
- **Genlock connectors**: 1 BNC female: genlock input
- **Standards**: NTSC, PAL
- **Input level**: 1.5 V to 5.0 Vp-p
- **Output level**: TTL: 5.0 Vp-p, unterminated
- **Input impedance**: 600 ohms
- **Output impedance**: 75 ohms
- **Max input voltage**: 5.0 Vp-p
- **Polarity**: Negative

#### CONTROL/REMOTE — SCAN CONVERTER
- **Serial control port**: RS-232 or RS-422, 9-pin female D connector
- **Baud rate and protocol**: 9600 baud, 8 data bits, 1 stop bit, no parity
- **Serial control pin configurations**: RS-232: 2 = TX, 3 = RX, 5 = GND, 9 = hard-wired IR RS-422: 2 = TX-, 3 = RX+, 5 = GND, 7 = RX+, 8 = TX+
- **IR controller module**: VSC Remote
- **Program control**: Extron’s control/configuration program for Windows® Extron’s Simple Instruction Set (SIS™)

#### GENERAL
- **Power**: 100 VAC to 240 VAC, 50/60 Hz, 30 watts, internal, autoswitchable
- **Temperature/humidity**: Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
- **Operating**: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
- **Rack mount**: Yes, with optional 1U rack shelf RSU 129, part # 60-190-01; or RSB 129, part #60-604-01
- **Enclosure type**: Metal
- **Enclosure dimensions**:
  - **VSC 700**: 1.75” H x 8.75” W x 10.5” D
  - **VSC 700D**: 1.75” H x 8.75” W x 10.75” D
- **Product weight**:
  - **VSC 700**: 2.8 lbs (1.3 kg)
  - **VSC 700D**: 2.9 lbs (1.3 kg)
- **Shipping weight**:
  - 5 lbs (3 kg)
- **Vibration**: ISTA 1A in carton (International Safe Transit Association)
- **Listings**: UL, CUL
- **Compliances**: CE, FCC Class A, VCCI, AS/NZS, ICES
- **MTBF**: 30,000 hours
- **Warranty**: 3 years parts and labor

**NOTE**: All nominal levels are at ±10%.

### Included Accessories
- **MHR-2 SVM-F/6**: Male to Female 4-pin Mini DIN
- **S-Video Cable, 6’**: S-Video Male to 2 BNC Female Adapter, 8”

### Optional Accessories
- **BBG 6 A**: Blackburst, Color Bars, and Audio Generator
- **VSC Remote**: Handheld IR Remote Control for VSC Series
- **SDI Output Board**: SDI Output Board
- **RSU 129**: 1U 9.5” Deep Universal Rack Shelf Kit
- **MBU 129**: 1U, 1/2 Rack Width Under-Desk Mount Kit
- **RCAF-BNCM/10**: RCA Female-BNC Male, Qty. 10
- **SVHSM-BNCF 8” (20 cm)**: S-Video Male to 2 BNC Female Adapter, 8”

Specifications are subject to change without notice.