

Chapter 1 : NEW Products SECOND EDitiON - PDF

The Extron RGB-HDMI A is a high performance RGB and stereo audio to HDMI scaler that converts incoming analog component video and RGBHV signals to HDMI signals. It accepts HDTV and high resolution computer-video signals up to x, and offers multiple output rates up to x, including HDTV p/60 and 2K.

From our advanced product design, manufacturing and quality control procedures to our friendly and knowledgeable support teams, our commitment to satisfy you is paramount. In every interaction with Extron, you can be confident you will receive our S3 commitment to Service, Support, and Solutions. For more than 27 years, our objective has been to ensure that every customer is completely satisfied with every purchase. To underscore this commitment, we offer our Satisfaction Guarantee. This means we will work diligently to resolve any issue you have with your purchase until you are completely satisfied. Extron employees are prepared to do whatever it takes to make certain that the entire process of doing business with us is a positive and professionally rewarding experience for you. I m so confident in our ability to deliver on this pledge that I back it personally. If you are not satisfied with any part of your transaction with Extron, I want to know. Please contact me at I will personally address any unresolved customer issue. We greatly appreciate your business. It is our intent to keep you as a customer for life. The VN-Matrix Series offers real-time performance and low latency, making it ideal for remote collaborative and interactive or control applications. It can be deployed in live event streaming and high level conferencing for specialized projects. They produce excellent image quality at highly efficient bit rates with low latency. The Recorder is ideally suited for any VN Matrix application requiring the documentation, archive, review and playback of highlysophisticated or demanding imagery. The Enterprise Controller simplifies managing a large VN-Matrix deployment by allowing users to view, manage, and dynamically control multiple VN-Matrix systems and networked VN-Matrix domains from a single user interface. For mission-critical applications, two Enterprise Controllers can be configured to run as a redundant system. The JMP supports two playback channels providing additional capabilities and value. The two channels can be independently controlled or they can be synchronized for super-wide screen or 3D displays. Pricing and specifications may change without notice. Designed to mount securely into a wall, lectern, or other flat surface, the TLP MV provides the power of touchpanel control in the same three-gang form factor common for keypad controllers. Eight customizable backlit buttons provide expanded control capabilities to ensure that critical functions are easily accessible. The TLP MV touchpanel enables integrators to deploy a fully configurable, small-format, surface-mounted touchscreen control interface with a sophisticated, high tech appearance. In addition to the seven-inch, full-color high resolution touchscreen, the ten field-labelable backlit buttons provide expanded control capabilities to ensure that critical functions are easily accessible. The TLP MV touchpanel enables integrators to deploy a fully configurable surface-mounted touchscreen control interface with a sophisticated, high tech appearance. GUI Configurator software includes ready-to-use templates for single display rooms, dual display rooms, divisible rooms, multiimage systems, and video conference suites. Getting started is fast and simple using the familiar Windowslike interface. GUI Configurator software s resource libraries of shapes, graphics, and sounds provide a variety of choices for design of master pages, popup pages for transport controls, multistate buttons, 3D effects, video windows, dynamic text, and more. Box-to-box communication enables multiple controllers to function together as one for larger, more complex systems Enhanced user interface that makes systems even easier to configure Conditional logic to allow button operations to be contingent on a variety of separate conditions Master controllers streamline the configuration of large installs with inidental rooms Virtual TouchLink enables Web browser access of the touchpanel GUI on a PC or Mac No programming skills required Configures IP Link, MediaLink, and TouchLink Systems Extensive library of thousands of certified, ready-to-use serial and IR drivers GlobalViewer system designer Global Configurator 4. NET technology, GlobalViewer Enterprise integrates with third-party facility scheduling software for viewing room availability and managing meeting schedules. It allows the TLP MV to be mounted in retrofit or pre-construction applications where an in-wall installation is required. The BBM provides standard knockouts for fixed or flexible conduit. The EWB is the

ideal mounting solution for concrete, brick, wood, or other solid surfaces where in-wall mounting is not possible. The EWB provides knockouts for popular raceway systems and conduit to accommodate concealed cable runs. Available in black or white. The SMB is suitable for external mounting on lecterns, tabletops, and other flat surfaces. The sculpted design of the SMB provides a contemporary look to complement any environment. It provides a method for rotating the box to provide easy access for multiple users. The SMA-1 provides multiple stop points so the installer can precisely determine the degree of rotation for easy access and prevention of cable strain and tangling. Compatible with Extron three-gang products that are less than 1. Security screws are provided to ensure theft deterrence and loss prevention. It works with optional TouchLink Touchpanels and SCP Secondary Control Panels to provide enhanced display and room control, and features Extron ProDSP with an extensive array of easy-to-use, digital audio processing tools for audio system setup and fine-tuning. Providing an efficient way to power and mount multiple transmitters and receivers, the PowerCage simplifies integration for large, rack-mounted systems. The hot-swappable, modular design allows for replacing or upgrading boards in the field at any time, without having to power down the system. Supporting rates up to 4. A compact, low profile Alarm notification for fiber link loss enclosure allows for discreet installation. SMX frames are available in sizes up to 5U, capable of supporting up to 10 separate matrix boards which can be switched independently or simultaneously, all under a single point of control. SMX frame populated with: They support computer video to x and HDTV to p as well as embedded audio and control signals, and enable the routing of content from Blu-ray Disc players and other content-protected sources to one or more displays. These HDCP-compliant matrix boards support computer video to x and HDTV to p, and enable the routing of content from Blu-ray Disc players and other content-protected sources to one or more displays. For installation convenience and flexibility in cable selection, the boards are equipped with DVI-I connectors for inputs and outputs. The switchers support HDMI 1. It is housed in a compact, low-profile enclosure for placement behind flat-panel displays, and offers several features for streamlining integration and enhancing system operation, including Auto Input Memory, Auto-Image setup, and RS serial control. The HAE supports data rates of up to 6. It provides a simple, convenient solution in HDMI installations for sending audio to a sound system for stereo audio or surround sound. It combines five independent switchers in a single compact enclosure: The MPS is ideal for use in single-display applications that require a hybrid switcher for integration of digital and analog video sources and associated audio signals. Five switchers in one enclosure:

Chapter 2 : Extron DSC Hd-hd HDMI Scaler | eBay

HDMI RGB-HDMI A The Extron RGB-HDMI A is a high performance RGB to HDMI scaler that converts incoming analog component video and RGBHV signals to HDMI.

, Alligator DG DG. "G" 6 , . Samsung - " " - , BenQ . Joybook Lite U Nokia Nseries Nseries. Acer Aspire One Aspire One Nikon 24,5 - iRiver T5 , iRiver, CD- Rega Apollo 35 D- Apollo! Apollo 7" - 5 - DLP- KLHX1 , Doro HandleEasy gsm i " " , , - , Ñ' Netflix, Xbox 42" , Nokia Slide: "" , S40 " " 6th Edition. 22 , 40 . WTE Google HTC - Nokia E63 Nokia E63 E71, - Sanyo rightView Mustek GPS- Toshiba X " " X- X : projectiondesign 3D- F10 AS3D , Daniel Kumin : Revel Concerta B , Harman International AV Onkyo, . - 4 x 50, ViewSonic Asus Eee PC Sony 12,5- " " - Oto-Shigure. , Nokia Heikki Juvonen. , , , Nokia E63 x imagen Pro, iRiver " " " wave " " " 9 . iF Design Awards . , XHD, 64 " " - AKG Playstation GPS- Videovox - DVR - 8. "" , , , , - Excel "Sonos Controller 4. RaidSonic x 52 x 3, 5- SanDisk SSD ExtremeFFS, , , HTC, Olympus E 12, Asus F8 Express Gate Asus F8 Express Gate, 8 LG Philips - Philips Essence Videovox DVR Sharp - FPD International , Toshiba - Tecra x Full HD , Prology AVMS - Tarantula . Samsung OLED- - Toshiba " " DLP- " " t, t tw Lanzar Vector

Chapter 3 : Extron Electronics Media Converter User Manuals Download - ManualsLib

Extron RGB-DVI , RGB-HDMI A Scalers & Specifications 3 Product weight 1 6 lbs (0 7 kg) Shipping weight.

It is prevalent in flat-panel displays and projectors as well as DVD players, Blu-ray Disc players, and even some laptops and PC graphics cards. The thrust of this article is to bring into focus the primary advantages, or disadvantages depending on your point of view, of HDMI, the digital High Definition Multimedia Interface. Consider HDMI as a superset which includes DVI along with multi-channel digital audio support in various formats, copyright protection, and consumer control all packaged into a connector about half the physical size of the original DVI connector. The HDMI consortium, formed in and released the initial specification that same year. In , version 1. The notion is that HDMI offers the consumer electronics industry a single interconnect solution which compacts all needed electrical interfaces into one small package consumers consider easy to use. HDMI mainly utilizes a pin plug known as Type A, and offers a pin mini-plug called Type C found on camcorders and other portable devices. HDMI versions up to 1. The latest specification for HDMI, version 1. Deep Color expands the number of available colors, from millions to billions and even trillions. The concept is illustrated in Figure 2 where the outer boundary of the color space "wedge" represents the limits of human visual capacity and the triangles represent the available colors within a region defined by primary red, green, and blue tristimulus values for a given color space. The larger the triangle, the more vivid are the perceived colors. Conceptual presentation of the expanded xycc color space compared to the HDTV and srgb color space not to scale. Curiously, both the DVI specification and the HDMI specification contain the same electrical performance requirements between the source and the sink, or receiver. The answer is that the industry has learned how to make better cables for this type interface technology. Better cable manufacturing methods for precision shielded twisted pair cable coupled with consumer electronics volumes have made longer, low-cost HDMI cables a reality. In addition, technology has evolved with transmitter and receiver chipsets to ensure HDMI signal integrity over very long lengths of cable. HDMI physical connections require precision shielded twisted pair cable. A cable is comprised of four shielded twisted pairs one for the source clock signal and three for digital data along with five individual wires for power, subcommunication functions, plus a ground reference for those functions. The Short and the Long of it continued affecting performance in the transmission system. Refer to Figure 3. As shown in Figure 4, excessive skew, as well as attenuation due to long cable lengths, distorts the eye patterns and affects the ability of the receiving device to properly detect the signals, resulting in sparkles on-screen, or a complete loss of the image. The HDMI specification only provides us with the electrical performance requirements for a functional interface. It does NOT specify cable design or cable length maximums. Manufacturers have but their own ingenuity using available raw cable materials and active electronics to solve the distance issues. These "category" designations have nothing to do with the same nomenclature used for network cabling. So, what does this mean to us? This means that the supposedly cheaper, existing Category 1 cable will suffice. The higher performance Category 2 cable is therefore required to realize higher resolutions and any of the Deep Color rates. Attenuation limit charts and eye diagram masks provide the tools to guide the cable designer between the two categories. It is obvious that, since cable length cannot be tied to the specification, we are highly dependent on the cable manufacturer to accurately design, test, and label the cable assemblies appropriately for the Figure 3: TMDS signals for the red, green, and blue channels, also known as the "eye" patterns. In this case, the eye pattern is open and clears the limit mask, shown in gray. This allows for reliable image display. The eye pattern is distorted due to skew and attenuation losses from long cable lengths. It encroaches on the limit mask which potentially leads to erratic or no image display. While a short length of a particular cable type may perform to Category 2, it does not mean that a longer version of the same cable type will perform to Category 2. As cable length increases, we all know that attenuation effects limit performance rapidly. Released in and mapped directly into the DVI standard, HDCP provides data security for the interface and is aimed to arrest the piracy concerns of digital content providers. An authorized HDMI device may contain up to forty bit secret key values along with a special identifier called the key selection vector, or KSV for short. Each time an HDMI

device is connected in a system, a three-part authentication routine automatically occurs. First, shared values, or codes, between devices are exchanged; second, the KSV of each receiver is reported to the source; third, frame-by-frame ciphers are sent to the receivers that enable data decoding. HDCP supports interconnection of devices via a hierarchy of sources, sinks, or receivers, and repeaters. All devices in an HDCP system communicate through a protocol designed to allow digital content to travel only to those devices which the source determines have the authorization to receive such content. The hierarchy supports seven levels of repeaters and up to a total of devices. Repeaters are devices authorized to receive and re-transmit HDCP content. They must first be authenticated by the source, and then decrypt and re-encrypt HDCP content before sending it along to a sink or another repeater. Significant changes are forthcoming with a new revision to HDCP. All of the aforementioned refers to HDCP versions 1. The latest version, HDCP 2. Instead of bit key values, HDCP 2. Content encryption will be upgraded to the AES algorithm using bit keys. It can be applied to any two-way digital communications scheme where content protection is needed, including DisplayPort, wireless, and IP. In addition to strengthening authentication and encryption requirements, HDCP 2. Also, up to four levels of repeaters may be used, down from seven in HDCP 1. To address this, converters will be made available to interface HDCP 1. Because these converters act as repeaters, they will be another important system design consideration, since only four repeaters will be permitted in an interconnected system. The Short and the Long of it continued Electronics Control, or CEC, system provides various functions that orchestrate plug-and-play control among consumer products. Additionally, incompatibility issues have been reported with implementing CEC between products from different manufacturers. In order to promote consumer confidence and device compatibility, HDMI adopters are bound by the compliance agreement which requires successfully passing specified interoperability testing before a product may bear the HDMI logo. The Authorized Testing Center - ATC, an independent organization, performs the initial product compliance tests for products within the designed product categories. Within the HDMI specification, a product falls into one of the following base categories: Once tested by the ATC, all succeeding products of the same category may then be tested and self-certified by the manufacturer of the product. Compliance to interoperability within the HDMI specification is mandated. The issue of inoperability between some HDMI-equipped products across various manufacturers has been well-known in the electronics industry. This incompatibility most often has been result of problems obtaining the necessary handshake between devices so that HDCP can be established. Therefore, HDMI product interoperability should substantially improve for new and future generation products. For connections throughout a facility or residence, or even in a large home theater, 15 meters will not suffice. However, sending HDMI signals long distances is certainly possible. As previously mentioned, advances in cable design have enabled longer runs of cable, to to feet 45 to 60 meters. Some designs use fiber optic cable with the transmitter and receiver built into the connectors. This device features active equalization circuits that ensure the integrity of HDMI signals traveling through very long lengths of cables. HDMI signals can also be sent over inexpensive CAT 5-type network cable, with runs possible up to about feet 60 meters. These current solutions mostly support HDMI 1. Consumers have increasingly become aware of HDMI and are asking for it in stores and from residential installers. The prospect of an all-digital video infrastructure offers great promise in terms of delivering high quality, pristine video and graphics at high resolutions with pixelperfect integrity. This article offers just an introduction to some of these, including HDCP, interoperability, and signal extension. We ll certainly explore all of these further in future issues of ExtroNews.

Chapter 4 : HDMI, or High Definition Multimedia Interface, is a digital A/V interface that supports high - PDF

The Extron RGB-HDMI A is a high performance RGB and stereo audio to HDMI scaler that converts incoming analog component video and RGBHV signals to HDMI signals. The RGB-HDMI A also offers audio embedding so that analog audio input signals can be digitized into the scaled HDMI output.

Chapter 5 : Sonstige TV-, Video- & Audio-Produkte günstig kaufen | eBay

DOWNLOAD PDF EXTRON RGB-HDMI-300A DATA SHEET

Discover the innovative world of Extron and learn about the latest in Pro AV integration products, software, news updates, and expert system support.

Chapter 6 : Extron electronics RGB-HDMI Manuals and User Guides, Media Converter Manuals

View online or download 1 Manuals for Extron electronics RGB-HDMI Besides, it's possible to examine each page of the guide singly by using the scroll bar. This way you'll save time on finding the necessary info.