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Digital Fire In the 21st Century

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KEY DIGITAL SYSTEMS OFFERS WORLD's SMALLEST TRANSCODERS AND SWITCHER FOR SUPERIOR CROSS-PLATFORM HDTV OUTPUT

Award-Winning Component-to-VGA and VGA-to-Component Transcoders and Auto-Format Switcher Enable Seamless HDTV Output on High Resolution Monitors with VGA Input

Riverdale, NY – Key Digital Systems' new line of Component and VGA Digital Adapters/Transcoders and A/V Matrix Switcher were selected from hundreds of other entries to be awarded the prestigious "*Innovations 2002*" awards at the Consumer Electronics Show (CES 2002), selected by a panel of industry experts for distinction based on their superiority in design and engineering. These exceptional new HDTV products are must-have tools for consumers seeking a seamless, high-resolution display of digital signals on both SD monitors with VGA (RGBHV) input and Component HDTV monitors.

Key Digital System's new product line includes transcoders and switchers that efficiently convert Component digital signals of any standard format (480P, 720P, 1080i/540P) to VGA for display on traditional high resolution monitors. Also attracting world-wide attention are transcoders which convert VGA (RGBHV) signals (480P, 1080i/540P, and 720P) to Component (YPrPb), for display on Component HDTV monitors. All of Key Digital's new Component-to-VGA and VGA-to-Component transcoders are the world's smallest, fitting easily into any tight space or wiring system.

Of special interest is the company's award-winning KD-CTCA2 "Clear Video 2" video adapter is able to easily and economically convert the X-Box™ Component digital video signal to VGA for display on standard multimedia monitors with VGA (RGBHV) input. The "Clear Video 2" adapter also converts digital signals from PlayStation2™ and other popular video games to VGA.

Leading Developer of HDTV "Glue" Perfectly Times Market

Key Digital Systems is a New York-based manufacturer of engineering solutions for HDTV equipment, founded by Emmy-award winning industry veteran Mike Tsinberg. The company offers niche solutions to consumer electronics manufacturers like Pioneer, developing "glue" products that enable consumer electronics products across the marketplace to "talk" to each other – even though they are built to different technical standards. These products include digital switchers, digital scalers, transcoders, and are particularly valuable for home theater aficionados who rely

on an array of branded analog and digital HDTV equipment, much of which is built to its own proprietary specifications. Key Digital Systems is able to seamlessly link the elements of any home theater system, scaling and smoothing the digital signals and ultimately delivering the best -possible signal to plasma displays. Engineered to bridge the gap between manufacturers, Key Digital Systems' new transcoders and switchers gives consumers a choice between best-in-class products.

Component-to-VGA (KD-CTCA2)

The new *"Clear Video 2"* (KD-CTCA2) is an X-Box-compatible transcoder that efficiently converts Component (YPrPb) Signal from HDTV Set Top Boxes or Progressive DVD players to VGA (RGBHV) Signal, enabling users to drive two high resolution monitors with VGA (RGBHV) signal with just one switcher. It is automatically tracks the scanning format without requiring user to select the format manually or use horizontal centering adjustment.

VGA-to-COMPONENT TRANSCODERS – (KD-VTCA2)

Key Digital is now delivering the world's smallest VGA-to-Component transcoders, capable of converting VGA (RGBHV) signals from Set Top Boxes and Personal Computers to Component (YPrPb) signal for use with HDTV-ready monitors. Key Digital's **KD-VTCA2** *"Clear Color 2"* video adapters are essential tools for the home theater enthusiast who desires a true high-definition display, with full connectivity between television and Internet domains! The new KD-VTCA1 video adapter converts signals from standard VGA to component YPrPb, while the KD-VTCA2 offers additional "Loop Through" feature for simultaneous monitoring of the YPrPb signal on Component monitor and the VGA signal on a compatible PC monitor.

A/V Switcher – (KD-SW2x1)

Key Digital's new **KD-SW2x1** allows the use of one HDTV monitor with Component (YPrPb) input to view two separate sources of Component (YPrPb) Video from sources such as DVD players or Digital Set Top Box. Auto switching capability allows monitoring of one of the two Component sources by simply switching power off the unwanted source.

New Features for CTC Line of Products

Key Digital's feature-rich transcoders are engineered to high-performance specifications, making home theater HDTV installations quick and easy. The entire CTC line is built on a robust platform capable of 120 MHz video bandwidth, and delivering a highly linear performance that exceeds HDTV standard requirements and creates degradation free images on VGA capable displays.

Each transcoder offers a worry-free Easy" auto sensing modes, automatic horizontal centering adjustment, Positive or Negative Sync, a wall plug power supply and a 2-year warranty on parts and labor. The "Easy" mode automatically senses and converts the Component to VGA signals so users don't have to reconfigure each line for the right video output. Since Key Digital component and VGA transcoders automatically know whether the signal is in the 480P, 720P, or 1080i/540P format, users don't have to know or select any particular HDTV format on the unit. In addition, all Key Digital transcoders have the intelligence to calibrate the horizontal centering, so there is no manual adjustment necessary.

Key Digital Systems' President Mike Tsinberg described the new CTC line of products as "essential ingredients for the modern home theater and cutting-edge production suite." Tsinberg explained, "As the television industry marches toward the inevitability of SD-to-HD conversion and home theaters become ubiquitous in middle-class homes, the need for artifact-free, cross-platform homogeneity between consumer HDTV products will increase dramatically. Key Digital Systems recognizes this trend, and in response, has expanded its suite of "glue" products to give home theater enthusiasts and HDTV professionals the freedom to build best-of-breed studios without worrying about cross-platform signal degradation. Ultimately, Key Digital's transcoders and switchers will let users pace their absorption of new products and better allocate dollars earmarked for capital improvements."

PRODUCT DETAIL
High Performance "Clear Video 2" Ideal for Retail Display

Key Digital System's *"Clear Video 2"* (KD-CTCA2) two-in-one transcoder easily convert one Component signal to two VGA output standard and is ideal for retail or wholesale display. For example, users can transcode a Component (YPrPb) signal from any HDTV Set Top Boxes or Progressive DVD players to a VGA (RGBHV) signal, thus driving two high resolution monitors with VGA (RGBHV) inputs.

The KD-CTCA2 video adapter is equipped with an "Easy" mode that employs auto sensing for the 480p, 720p, 1080i/540p format selection. The *Clear Video 2* also delivers pristine picture quality thanks to 120 MHz video bandwidth, and offers three RCA connectors for Component inputs and two VGA (DB15 connectors) outputs to drive two independent VGA monitors simultaneously. Picture tweaking is easy with automatic Horizontal Centering Adjustment, Positive or Negative Synchronization, and Composite Synchronization.

The Clear Video 2 offers both automatic and manual format modes. The horizontal centering adjustment is available in three formats (480P, 720P, 1080i/540P) to compensate for an off-center image, and is only available in manual format mode.

Specifications: Clear Video 2 (KD-CTCA2)
Connectors: The adapter is equipped with three RCA connectors for Component inputs and VGA (DB15 connector) output to drive VGA monitor.
Power: Wall plug power supply included. (Only Key Digital's power supply should be used).
Cable Length: For optimum performance, the output and input cable length should not exceed 50 feet.
Weight: 1lbs
Dimensions: 2" x 4 3/4" x 3/4
Warranty: 2 Years parts and labor.

VGA-To-Component Transcoder with "Loop Through" – (KD-VTCA2)
Key Digital's **KD-VTCA2** *"Clear Color 2"* converts VGA (RGBHV) signal from Set Top Boxes and Personal Computers to Component (YPrPb) Signal for use with HDTV Ready Monitors. In addition, Clear Color 2 has a VGA (RGBHV) Loop through Feature, which allows simultaneous monitoring of VGA input.

The transcoder offers Automatic Formatting with Key Digital's "Easy" mode, as well as Clear Color 2 video adapter converts standard VGA to component signal. Adapter is equipped with the "easy" mode that employs auto sensing for the 480p,1080i/540p and 720p format selection. Horizontal centering adjustment
Is not available with auto formats.

The Clear Color 2 is a high-performance, 120 MHz video bandwidth transcoder equipped with the "loop through" feature, which allows simultaneous monitoring of VGA input signal to a VGA equipped PC monitor. This feature works when PC monitor and component monitor are both turned ON.

Clear Color 2 has horizontal centering adjustment in any of the three listed formats (480p, 1080i/540p and 720p), which is used to compensate for an off-center image. Horizontal centering is only available in manual format mode. Like its sister unit, the KD-VTCA2 offers Positive or Negative Sync and Special Sync for artifact-free display of DTC-100 in the "long" retrace mode and Panasonic's CT-34WX50, PT56WXF95, PT-WXF90 & PT-65WX50 monitors. This is the only video adapter on the market that allows this specific connection.

Specifications: Clear Color 2 (KD-VTCA2)
Connectors: Two VGA 15 pin (DB15) input and loop through connectors and the outputs are three RCA connectors for component.
Power: Wall plug power supply included. (Only Key Digital's power supply should be used).
Cable Length: For optimum performance, the output and input cable length should not exceed 50 feet.
Weight: 1lbs
Dimensions: 2" x 4 3/4" x ¾
Warranty: 2 Years parts and labor

NEW HDTV Switcher Displays Two Sources - (KD-SW2x1)
Key Digital's high performance KD-SW2x1 switcher offers 120 MHz video bandwidth and a highly linear performance that exceeds HDTV standard requirements, and works automatically with ANY scanning format including 480i, 480P, 720P, and 1080i/540P.

Engineered to standards of excellence, the KD-SW2x1 offers a unique and desirable 'Auto Switcher' feature that delivers twice the functionality of a standard switcher by allowing the sensing and display of the active Component Video and Audio Signals (YPrPb L,R, PCM) on an HDTV Monitor with Component input.

Using Key Digital's unique 'Input AutoSwitch2,' users can use an HDTV monitor equipped with ONE (1) Component (Y,Pr,Pb) input to view one of two sources of Component (Y,Pr,Pb) video, L,R analog audio and PCM digital audio from sources such as DVD players or a digital Set Top Box.   The Auto Switching capability also allows users to monitor one of the two Component sources by simply switching power of unwanted source off.

Simply put, AutoSwitch is able to monitor the presence of the video signals on each of the two inputs. If input B has active video on Y line, it switches the output to that input. Users can engage AutoSwitching by reading the unit's three LED's, (two of which will indicate the current switching position and one indicates if auto switching mode is ON), simply turning OFF the inactive input. When powered, the unit will always start in the auto mode.

AutoSwitch is a 3"X4" X1" plastic enclosure that will easily fit in any tight space or wiring system. It is equipped with a 'Push' button that cycles through three positions (input A ON, input B ON, auto mode enabled) and allows overwriting auto decision. In addition, a RS232 port allows customers the flexibility of building of a simple interface outside the unit copying on-board push button overwrite and LED indications. It is also possible to control by a software application running on a personal computer through RS232 port.

Specifications: A/V Switcher (KD-SW2x1)

Connectors:	The adapter is equipped with 18 RCA connectors. Each input and output has 6 RCA connectors: Y,Pr,Pb,L,R,PCM. YPrPb – Component video; L, R – analog stereo audio; PCM – digital serial audio.
Power:	Wall plug power supply included. (Only Key Digital's power supply should be used).
Cable Length:	For optimum performance, the output and input cable length should not exceed 100 feet.
Weight:	3 lbs
Dimensions:	2 1/2" x 3" x 4 1/2"
Warranty:	2 Years parts and labor.

Key Digital Systems – Product Availability

Key Digital's entire product line is available on a contract and OEM basis and through national retailers.
Pricing is as follows:

- KD-CTCA2 (One-Component-to-Two-VGA transcoder)/ MRSP $349.00;

- KD-VTCA2 (VGA -to-Component transcoder with Loop Through)/ MRSP $249.00

- KD-SW2x1 (Two Channel Component A/V Switcher)/ MRSP $399.00.

About Key Digital

Key Digital Systems has emerged as a developer of leading edge technology supporting HDTV custom installers, consumers, home theater retailers, corporations, and broadcasters. The company manufactures a wide range of engineering solutions in the area of digital signal processing and distribution, marketed as "glue" products to the HDTV community. Key Digital System's wide range of products includes scalers, distribution amplifiers, transcoders, and switchers which effectively and economically link HDTV components manufactured to diverging specifications. By uniquely enabling non-compatible equipment to "talk" to each other, Key Digital Systems has established itself as an intelligent resource in the evolving HDTV marketplace. Products by Key Digital Systems are available nationwide in leading retail outlets as well as via an extensive dealer network. For more information please visit the corporate website at www.keydigital.com. For trade press, visit http://www.keydigital.com/tradepress.htm.

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