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ABSTRACT

SYSTEM AND METHOD FOR COMBINING MULTIPLE COMPOSITE VIDEO SIGNALS

A system and method are provided for combining multiple composite video signals into a single output data stream synchronised with an output device. The system includes means for decoding incoming composite video signals into their constituent components, memory means for storing signals temporarily to synchronise such signals with the output device, and a multiplexor for combining the synchronised signals for application to the output device. An analogue to digital converter (ADC) is arranged to convert incoming composite video signals into digital form, a digital memory is arranged to receive the digital output of the ADC, and a decoder is provided to sample the contents of this memory under the control of timing signals synchronised with the output device to develop synchronised digital samples relating to the incoming composite video signals. These digital samples are then transferred to the multiplexor to enable the multiplexor to develop the single output data stream. This system requires less memory space than needed by prior art systems and enables high quality colour representations such as 24 bit RGB to be developed without increasing the memory requirement of the system.

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