INTEGRATED VIDEO PROCESSING SYSTEM HAVING MULTIPLE VIDEO SOURCES AND IMPLEMENTING PICTURE-IN-PICTURE WITH ON-SCREEN DISPLAY GRAHICS

ABSTRACT

An integrated digital video system (100) is configured to implement picture-in-picture merging of video signals (101, 104) from two or more video sources, as well as selective overlaying of on-screen display graphics onto the resultant merged signal. The picture-in-picture signal (110) is produced for display by a television system otherwise lacking picture-in-picture capability. The digital video system (100) can be implemented, for example, as an integrated decode system within a digital video set-top box or a digital video disk player. In one implementation, a decompressed digital video signal is downscaled and merged with an uncompressed video signal to produce the multi-screen display. The uncompressed video signal can comprise either analog or digital video. OSD graphics can be combined within the integrated system (100) with the resultant multi-screen display or only with a received uncompressed analog video signal.

Fig 4