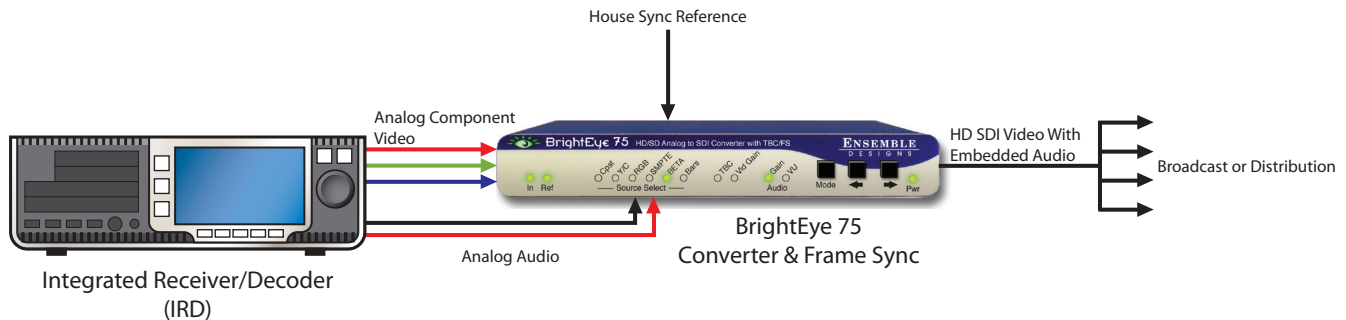# Is Your IRD Messing With You?
Simple Work Around For Cable Head Ends and Broadcasters

There has been a great deal of frustration dealing with HDCP on the HDMI output of an Integrated Receiver/Decoder (IRD). Even though stations or head ends have full rights of broadcast, the IRD is automatically outputting copy protection signals preventing the HDMI output of the IRD to be converted to Serial Digital for broadcast or distribution. Using the Analog Component output of the IRD can circumvent this.

The BrightEye 75 is an analog video to digital converter, audio embedder, and frame sync that can take analog component SD or HD signals and convert them to HD SDI or SD SDI with embedded AES audio. It also has an analog audio input that will be converted and embedded into the SDI stream. The built in frame sync allows use of asynchronous signals negating the need for additional hardware after the SDI conversion. There is even an audio mixer, time base corrector and proc amp controls.

Connect the Analog Component Video Output of the IRD to the BrightEye 75. This may require the use of adapters to match the BNC inputs of the BrightEye 75. Connect the Analog Audio output of the IRD to the Audio In block of the BrightEye 75 paying attention to the legend printed on the back of the unit. Connect the proper reference to the REF IN port of the BrightEye 75 if the unit is to be genlocked to house sync.

Using the front panel controls, or the BrightEye Mac or BrightEye PC software on a computer connected to the USB port of the BrightEye 75, select the proper input component format. The selections are Y/C, RGB, SMPTE or BETA and should match the component output format of

the IRD. Adjust the Proc Amp controls, Timing and Audio Mixing/Channel assignment as necessary. Note that the BrightEye 75 will automatically detect whether the input is HD or SD and configure itself accordingly.

That's all there is to it. Now the BrightEye 75 will be outputting HD SDI from the analog component output of the IRD, and be ready for broadcast or cablecast.