BrightEye 42
HD/SD/ASI Distribution Amplifier

BrightEye 42 is a reclocking distribution amplifier that can be used with high definition, standard definition or ASI signals. When used with SD or ASI input signals, the serial input automatically equalizes up to 300 meters of digital cable. When used with an HD input signal, the serial input automatically equalizes up to 100 meters of digital cable. The equalized signal is reclocked and delivered to four simultaneous outputs. The reclocker is ASI compliant and all four outputs have the correct ASI polarity.
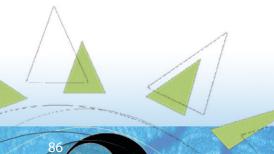
This is a simple device with no USB port and no interface to BrightEye Mac or PC software. Front panel indicators show the presence of an input signal and power.

Features

• **Use with video converters and TSGs in order to have more outputs**

• **DA for digital HD or SD SDI signals**

• **DA for ASI signals**

• **Passes embedded audio**

Serial Digital Input

Number	One
Signal Type	270 Mb/s SD Serial Digital (SMPTE 259M) or 1.485 Gb/s HD Serial Digital (SMPTE 274M or 296M)
Impedance	75 Ω
Return Loss	>15 dB
Max Cable Length	300 meters for 270 Mb/s
	100 meters for 1.485 Gb/s

Automatic Input Cable Equalization

Serial Digital Output

Number	Four
Signal Type	HD/SD/ASI Serial Digital (SMPTE 259M or SMPTE 274M, 292M or 296M), follows input
Impedance	75 Ω
Return Loss	>15 dB
Output DC	None (AC coupled)

General Specifications

Size	5.625" W x 0.8" H x 5.5" D (143 mm x 21 mm x 152 mm) including connectors and flange
Weight	14 oz
Power	12 volts, 2 watts (100-230 VAC modular power supply)
Temperature Range	0 to 40° C ambient (all specs met)
Relative Humidity	0 to 95° non-condensing
Altitude	0 to 10,000 ft.

HD/SD/ASI In → Reclocker → HD/SD/ASI Out (outputs follow input format)