

IN3012 1-In 2-Out RGBS Distribution Amplifier



The **IN3012** is a 1-In 2-Out distribution amplifier designed to split a single RGBS signal to two data monitors, data projectors, or other RGBS compatible output devices.

330 MHz Video Bandwidth - The **IN3012** offers extremely wide bandpass characteristics, ensuring compatibility with the highest resolution video signals from medical imaging equipment, computer terminals, and other high resolution workstations. While specifically designed for RGBS signals, the unit may also be used with RGSB, component, Y/C and composite video signals such as NTSC, PAL, or SECAM.

Line Driver for Long Cables-The **IN3012** also functions as a line driver, allowing video signals to be sent down much longer cables than would be possible without a line driver. Typically, low resolution video signals (15 KHz-30 KHz) can be driven down 600-1000 feet of coaxial cable. High resolution signals (30 KHz and above) can be sent 200-600 feet. Actual maximum drive distance depends on the resolution of the video signal and is largely determined by the bandwidth of the cable used for input and output connections. High quality coaxial cables such as the **IN7200-4** Ultra High Resolution Coaxial cables are recommended for optimum performance on extremely long cable runs.

Individual Gain Controls for Red, Green and Blue permit gray scale adjustment and also offer signal boost to compensate for video signal amplitude losses caused by lengthy cable runs. Proper gain control adjustment will result in improved image contrast. The controls have an adjustment range of 0.9 (10% decrease) to 1.5 (50% increase).

RGB Peaking Controls compensate for the high frequency loss occurring in longer coax cables due to capacitance. The **IN3012** peaking circuitry introduces a high frequency "bump" centered at 100 MHz which restores high frequencies, resulting in better image detail. Peaking may be adjusted from flat (no peaking) up to +3dB (maximum peaking).

The **IN3012** compact design allows the unit to be mounted in a very small space. Featuring a durable metal case, the **IN3012** is well suited for simulation, medical imaging, industrial, military and commercial applications requiring a high performance RGBS amplifier which is compact, rugged and easy to use.

INLINE®

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FEATURES

- Allows Signal From One RGBS Source to Drive Two Displays
- Compensates for Signal Voltage Attenuation and High Frequency Loss Due to Long Cable Runs
- Individual Gain and Peaking Controls for Red, Green and Blue Signals:
 - Permits Accurate Adjustment of Gray Scale
 - Line Driving Characteristics May be Optimized for Various Cable Lengths
- BNC Input and Output Connectors
- Compatible with RGBS, RGSB, RsGsBs, Component, Y/C, High Resolution Monochrome Video and Composite Video Baseband Signals
- Metal Case Enclosure

SPECIFICATIONS

INPUT:

Connector: 4 BNC female for RGBS
Video: 75 Ohm termination, 1.5 Vp-p max.
Sync: 0.2 to 5.0 Vp-p

OUTPUT:

Connectors: Two sets of 4 female BNC for RGBS
Video: 75 Ohm impedance
Gain Range: 0.9 to 1.5
Peaking Range: 0 to +3 dB centered at 100 MHz
Sync: 4 Vp-p high impedance, 1.3 Vp-p w/ 75 Ohm term.

GENERAL:

Bandwidth: 330 MHz @ -3dB
Power Supply: 9 VDC, 500 mA external adapter included
Shipping Weight: 2 lbs. / 1 Kg
Product Weight: 1 lb. / .5 Kg
Dimensions: 2.7" x 4.2" x 2.8" / 6.9cm x 10.7cm x 7.2cm
Included Accessories: Listed on reverse
Optional Accessories: Listed on reverse
Other DA Models: Listed on reverse
Regulatory Approvals: UL1950, CAN/CSA-22.2 No. 950, Third Edition
CE: EN55022 (1987), EN50081-1 (1991), EN50082-1 (1992 and 1994), EN60950-92

ACCESSORIES INCLUDED

| | |
|---------------|---|
| IN9204 | 9VDC, 500mA Power Supply |
| IN9333 | Inline Adjustment Tool (for gain / peaking controls) Operation Manual for IN3012 |

ACCESSORIES FOR IN3012

RGB Input / Output Cables

| | 3-Conductor | 4-Conductor | 5-Conductor |
|------------------------------------|--------------------|--------------------|--------------------|
| Standard Resolution | N/A | IN7000-4 | IN7000-5 |
| Standard Resolution, Plenum | N/A | IN7000P-4 | IN7000P-5 |
| Super High Resolution | IN7300-3 | | IN7300-5 |
| Ultra High Resolution | IN7200-3 | IN7200-4 | IN7200-5 |

All cable grades are available in a variety of lengths from 3' to 250' pre-terminated with high quality BNC connectors or as bulk cable.

Power Accessories

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|---------------|---|
| IN9204 | Replacement External 9VDC, 500 mA Power Supply |
| IN9210 | Rack Mountable Power Supply - Provides Power for up to ten 9VDC / 12VDC Devices |
| IN8500 | Power Cable: 18 gauge, 2-conductor power cable, bulk |

ADDITIONAL DISTRIBUTION AMPLIFIER & LINE DRIVER MODELS

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|-----------------|--|
| IN3204 | 1 x 4 High Resolution RGBS Distribution Amplifier, Fixed Gain - 375 MHz |
| IN3206 | 1 x 6 High Resolution RGBS Distribution Amplifier, Fixed Gain - 375 MHz |
| IN3234 | 1 x 4 High Resolution RGBS Distribution Amplifier, Adjustable Gain - 300 MHz |
| IN3236 | 1 x 6 High Resolution RGBS Distribution Amplifier, Adjustable Gain - 300 MHz |
| IN3304 | 1 x 4 Ultra High Resolution RGBS Distribution Amplifier, Fixed Gain & Peaking- 675 MHz |
| IN3306 | 1 x 6 Ultra High Resolution RGBS Distribution Amplifier, Fixed Gain & Peaking- 675 MHz |
| IN3252HR | 1 x 2 Ultra High Resolution RGBHV Video Distribution Amplifier / Line Driver - 600 MHz |
| IN3254 | 1 x 4 High Resolution RGBHV Distribution Amplifier, Fixed Gain - 375 MHz |
| IN3256 | 1 x 6 High Resolution RGBHV Distribution Amplifier, Fixed Gain - 375 MHz |
| IN3213 | 1 x 2 High Resolution 13W3 Distribution Amplifier with Attached 4' Input Cable |
| IN3212 | 1 x 2 High Resolution Composite Video Distribution Amplifier / Line Driver - 300 MHz |
| IN3214 | 1 x 4 High Resolution Composite Video Distribution Amplifier / Line Driver - 300 MHz |
| IN3218 | 1 x 8 High Resolution Composite Video Distribution Amplifier / Line Driver - 300 MHz |
| IN3056 | 1 x 4 S-Video Distribution Amplifier - 100 MHz |
| IN3058 | 1 x 8 S-Video Distribution Amplifier - 100 MHz |
| IN3248 | 1 x 8 Stereo Audio Distribution Amplifier with Captive Screw Connectors - Unbalanced or Balanced |
| IN3248R | 1 x 8 Stereo Audio Distribution Amplifier with RCA Connectors - Unbalanced Signals Only |
| IN3262 | 1 x 2 High Resolution VGA with Attached 6' Input Cable - 400 MHz |
| IN3262S | 1 x 2 High Resolution VGA & Stereo Audio Distribution Amplifier with Attached 6' Input Cable - 400 MHz |
| IN3262D | 1 x 2 High Resolution VGA Distribution Amplifier with Detachable Input Cable - 400 MHz |
| IN3262DS | 1 x 2 High Resolution VGA & Stereo Audio Distribution Amplifier with Detachable Input Cable - 400 MHz |
| IN3264 | 1 x 4 High Resolution VGA Distribution Amplifier with Sharpness Control - 300 MHz |
| IN3268 | 1 x 8 High Resolution VGA Distribution Amplifier with Sharpness Controls - 300 MHz |