ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Distribution Box Delay Unit



Overview

Audio Delay & Video Delay Devices | B&HBuy Professional Video & Audio Delays from top brands like Allen Avionics, Gra-Vue, For.A and Datavideo. Coax Delay.

Key Takeaways

A Distribution Box Delay Unit is a device that distributes audio or video signals to multiple outputs while applying a controlled delay to synchronize or manage timing across a production or broadcast system.Function and Purpose

A distribution box delay unit combines signal distribution and time delay functions. It allows a single input signal—audio, video, or digital SDI—to be sent to multiple outputs while introducing a precise delay. This is essential for:

• Live broadcast delay to prevent inappropriate content from going on air

• Lip-sync correction between audio and video

• Frame synchronization across multiple video feeds



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• Timing adjustments in complex production chains These units can handle both analog and digital signals, depending on the model, and often allow separate delays for each output channel .

Examples of Units

• FOR-A EDA Series: The EDA-1000, EDA-2000, and EDA-2100 are 1RU units that distribute up to eight outputs from a single input. They support SDI formats (12G/3G/HD/SD) and can delay signals up to 40 seconds (or 80 seconds with an optional module). Separate delays can be set for multiple inputs, and both audio and video can be delayed independently .

• Samim DLY Series: These modular or standalone units provide delays for 3G/HD/SD-SDI video and AES audio streams. They are widely used in broadcast studios for profanity delay, frame synchronization, and lip-sync adjustments. The delay can be applied per frame or for a defined duration, and settings can be controlled via a web interface .

• RU-ADL2 (RDL): A DSP-based analog audio delay unit that provides two separate outputs with adjustable delays from 0 to 135 milliseconds. It is suitable for professional audio environments where precise timing adjustments are required .

• SRS DB64 Coax Delay Box: Provides high-bandwidth analog delays from 0 to 63.5 nanoseconds with 0.5 ns resolution, useful for timing photomultiplier coincidences or signal phase adjustments .

Key Features

• Adjustable Delay: Delay can range from nanoseconds (coax delay) to several seconds (broadcast SDI delay).

• Multiple Outputs: Distribute a single input to multiple destinations without signal degradation.

• Signal Compatibility: Supports analog audio, digital audio (AES), and video (SDI, HD, 3G, 12G).

• Control Options: Front-panel keys, web-based interfaces, or remote control for delay settings.

• Professional Applications: Live broadcast, studio production, corporate events, and worship services.

Summary

A distribution box delay unit is a versatile tool in professional audio/video setups, combining signal distribution with precise timing control. It ensures synchronized outputs, prevents content errors in live broadcasts, and allows fine-tuning of audio/video alignment across multiple channels, making it essential for modern production and broadcast workflows .

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Buy Professional Video & Audio Delays from top brands like Allen Avionics, Gra-Vue, For.A and Datavideo.

Coax Delay Box

DPDT switches are used to insert or remove delay segments. Careful component selection, mechanical design, and PCB layout

EDA-1000/2000/2100

Provides distribution of up to eight outputs when one channel of input is used. The EDA-2100 supports 12G

Audio Delay Lines

When distributing video over long distances through multiple devices like distribution amplifiers and set top boxes there can

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With ProGuard, broadcasters of live content can guard against unexpected or unwanted events (nudity, offensive images/language

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It is the culmination of thirty years of designing and manufacturing highly reliable delays for broadcast. Featuring 80 seconds of

Professional Live Broadcast delay units

As an effective and reliable solution for controlling broadcast content, our broadcast Video delay equipment are widely used in

8-Outlets Timing Delay Power Distribution Unit (PDU)

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Smart and Simple:the Pknight unit-CP0802 15 is an multifunctional PDU which can be used as power

Power Distribution Boxes Explained Simply

What Is a Power Distribution Box? A power distribution box is a key part of any electrical

Distribution Box Guide: Types, Components & Solutions

Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses. Find

CO2 Flooding System – Fixed Fire Fighting on Ships

The time delay can be achieved in different ways. Out of these, two types of time delay unit is commonly used in CO2

BD600 Broadcast Delay

The unit shows not only an exact digital readout of delay time but also has a “quick read” bar graph which instantly confirms “you''re

A Definitive Guide To Distribution Boxes

The distribution box acts as the center of power distribution, distributing electricity to all connected devices. A

Delay Units For Sale

Browse outboard delay units available on Reverb. Find delay units from top brands like TC Electronic, Roland, Yamaha, and more.

Pknight 8-Outlet Smart PDU DMX Relay

Smart and Simple:the Pknight unit-CP0802 is an multifunctional PDU which can be used as power sequencer, delay switch and

RouterOS

RouterOS Documentation This webpage contains the official RouterOS user manual. RouterOS is the operating

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Description The Biographical Sketch Common Form is a standardized document used to summarize the qualifications, experience,

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8.1.2 Delay unit

In discrete-time systems described by difference equations (Figure 8.2), the delay unit is the most important elementary

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The Ultimate Guide to Distribution Box Types

Discover the key types of distribution boxes with NUOMAK''s comprehensive guide. Learn about Main Distribution Boards (MDB),

Understanding Distribution Boxes: Your Guide to Power

What are Distribution Boxes and Their Importance? What are Distribution Boxes and Their

Delay Unit

What is a Delay Unit? A delay unit is an audio processing device that is used to create echoes or repetitions of a

Buy Audio and Video Delay Synchroniser

The cost effective Bel 8150 audio delay is designed specifically for synchronizing audio to video in post production areas where video

Portable Power Distribution boards for temporary applications

Event Power Distribution Units Temporary Site Power Distribution Units and Boards Essential Supplies manufacture a wide range of

Time delay Fuses at Lowes

Select fast-acting or time-delay designs based on equipment needs. Verify fit with existing holders or fuse boxes before installation.

Wiring the K&r delay box: a guide for a smooth ...

A typical K&r delay box wiring setup includes several components, such as the delay box itself, wiring harnesses, relays, switches,

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Echo Units in Live Sound

Echo (Delay) Echo and Delay Effects in Live Sound What it is Usually an echo or delay unit will be housed in a 19″ 1U box with knobs

Audio Delay Lines

The SES-A-V-SYNC is a L/R In-Out audio-video synchronization corrector. Another way to describe it is it is a compact device that

Variable Air Volume (VAV) Systems Operations and Maintenance

Variable air volume (VAV) systems enable energy-efficient HVAC system distribution by optimizing the amount and temperature of

Broadcast Audio Delay Unit l DLY-3401

DLY-3401 is a 1RU Multi-Channel AES Delay Line with built-in audio router, clip player, and web interface, ideal for broadcast signal

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