Chapter 2 Applications

Introduction

Many different types of audio and video equipment are available. Before configuring the Micro Lynx decide what equipment you will use and how your system will be set up. We have selected some of the most common configurations used in the industry. Please use these as a guide for configuring your equipment to accommodate your specific application.

Related TimeLine Products

When looking through this chapter, keep the Micro Lynx option cards in mind. TimeLine products can provide many solutions for your time code, controller system, and synchronization requirements.

Third Machine Expansion Card (M3)

The Micro Lynx is designed to accommodate a third machine. To control an additional tape transport, simply plug this card into the System Unit to expand your system. The M3 card supports ATR, DTR, and VTR machines. The Sony VO-5850 requires the special interface circuitry in the M3 card for operation with the Micro Lynx.

Digital Audio Clock Generator Card (ACG)

The Micro Lynx is designed to generate synchronized digital audio word clock to integrate a digital audio workstation into your system.

There are two variations of the ACG card. The ACG-1 provides Word Clock and Oversample Clock Outputs. The ACG-2 has the same features as ACG-1 and adds an AES/EBU Silent Output and an external clock input. It allows the AES/EBU and clock input signals to be used as a system reference.

Video Sync Generator Card (VSG)

When synchronizing a system that includes VTR or DTR machines, the Micro Lynx and the machines must be referenced to a common video sync source. If you do not have an external sync pulse generator TimeLine's VSG card can be used as a system reference. This card generates both PAL and NTSC composite sync.

VITC Reader Card (VITC)

The Micro Lynx System Unit is designed to accept a VITC reader card. When you synchronize a VTR that does not support serial time code a VITC reader card will permit frame accurate positioning in still or stop mode.

Basic Micro Lynx

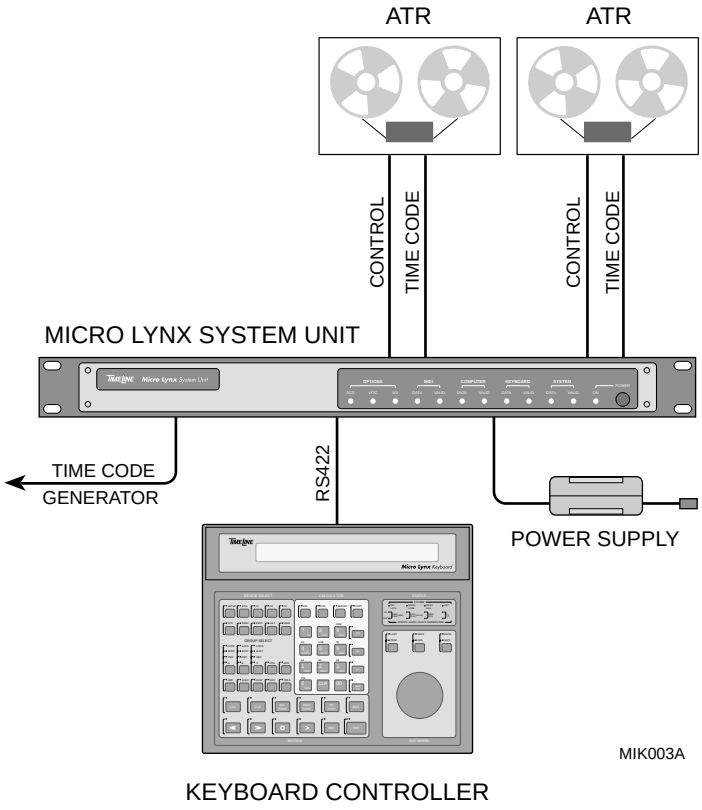

Figure Chapter 2 -1. Basic Micro Lynx

Typical Uses Micro Lynx adds multiple audio machine control and synchronization to a basic studio setup.

The Micro Lynx provides a fast, convenient way to perform time code reading, time code generation, and synchronization. It controls activities performed frequently such as locating, entering offsets, slipping one tape machine against another, and doing automated edits.

Considerations The Micro Lynx has transport selection of over 120 machines. The battery backup stores all setup parameters, so your studio configuration will never be lost.

Micro Lynx with a VTR

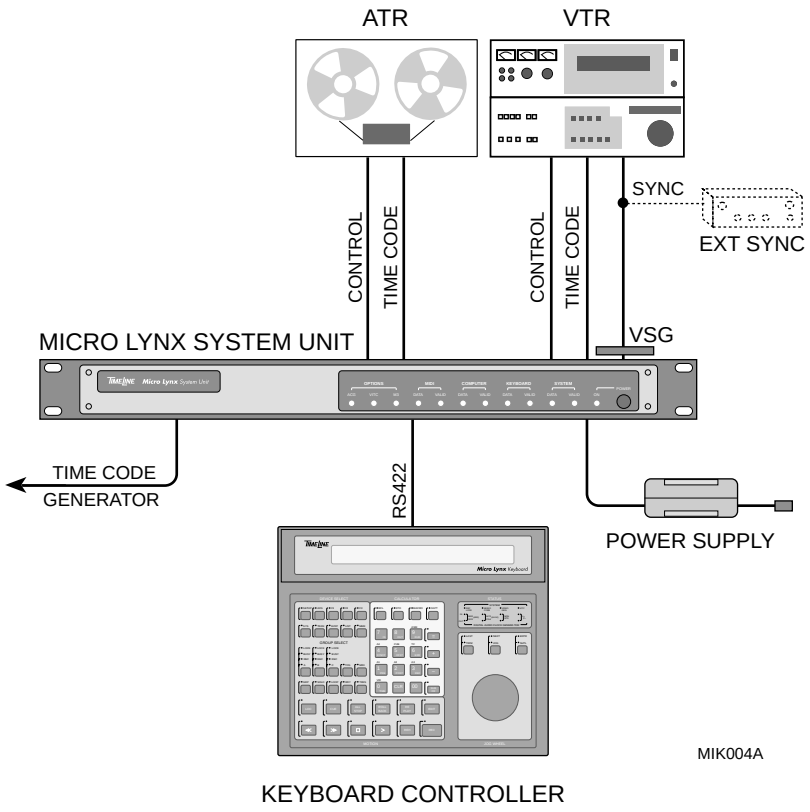

Figure Chapter 2 -2. Micro Lynx with a VTR

Typical Uses Audio for video.

The Micro Lynx is compatible with numerous video transports that support external synchronization including standard 3/4" U-matic, beta, S-VHS, VHS, open reel, and digital VTRs. With Micro Lynx the video machines are always resolved, so they can be run as either Master or Slave. If the VTR uses Sony Serial Protocol, serial time code can be used as the time code source.

Considerations Use an external video sync source as a speed reference source for the Micro Lynx and VTR. Install the Micro Lynx Video Sync Generator Card (VSG) if an external sync source is not available.

Micro Lynx with MIDI

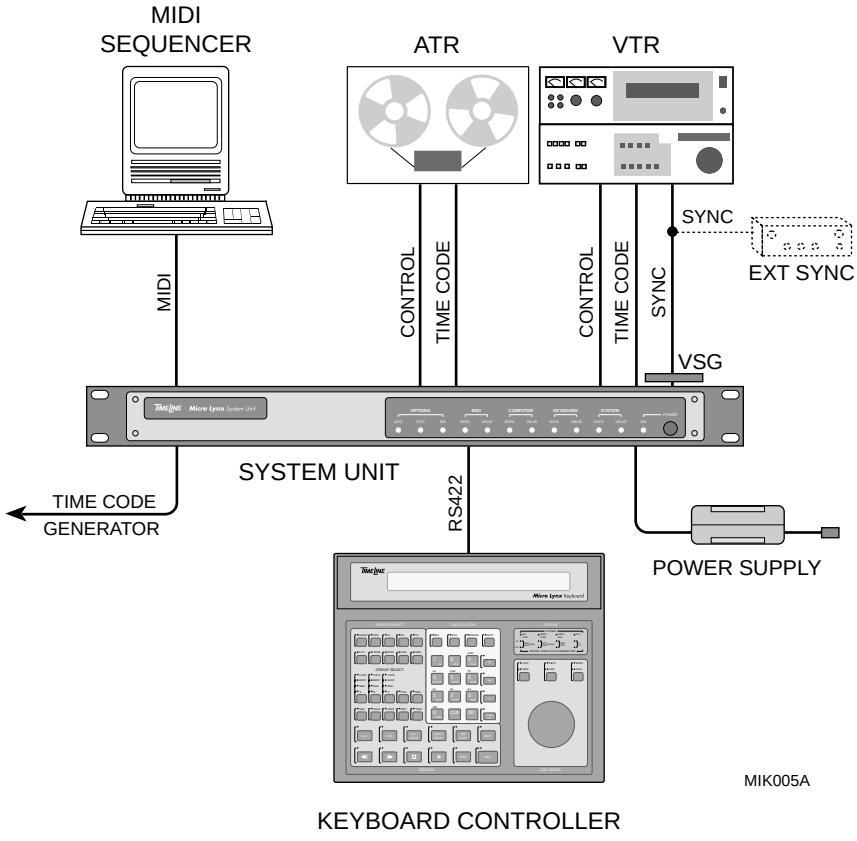

Figure Chapter 2 -3. Micro Lynx with MIDI

Typical Uses Use whenever MIDI and SMPTE must work together to produce music composition, sampled sound effects, or layup.

Micro Lynx has MIDI capabilities allowing a Sequencer or other MIDI device to be synchronized with the transports as Master or Slave.

Considerations Your MIDI device should have the ability to read and use MTC and/or SMPTE.

Micro Lynx with Third Machine Card Installed

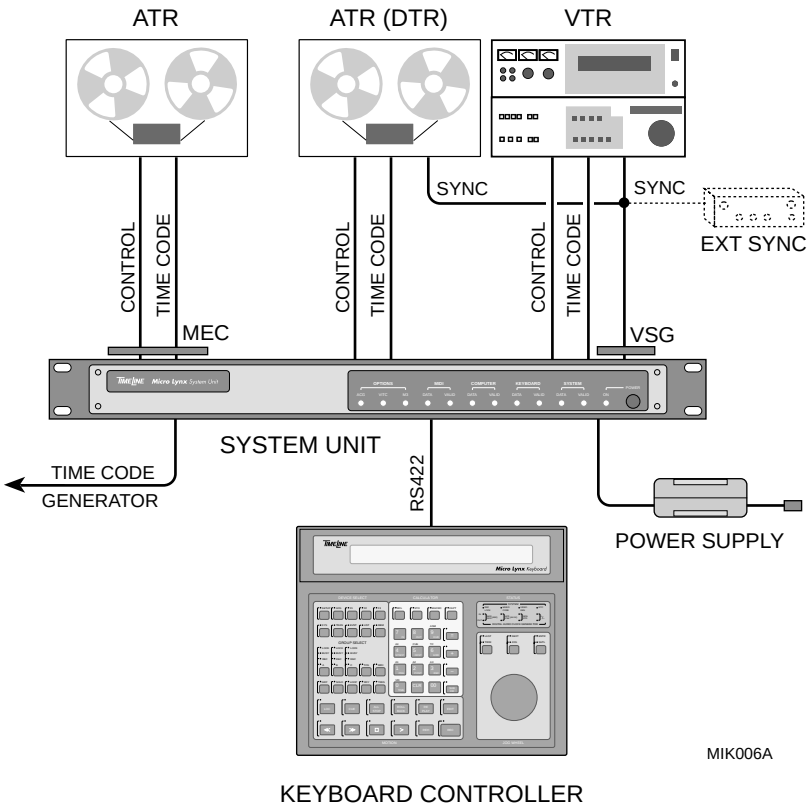

Figure Chapter 2 -4. Micro Lynx with Third Machine Card Installed

Typical Uses Multiple transport and audio post-production work.

Expands the Micro Lynx system to three transports; providing you with a larger system and greater flexibility. The Third Machine (M3) card also includes an interface for the Sony VO-5850.

Considerations The M3 card supports all transports and is required for interface with the Sony VO-5850. Install the Micro Lynx VSG card if an external video sync source is not available.

Micro Lynx with a Digital Audio Workstation

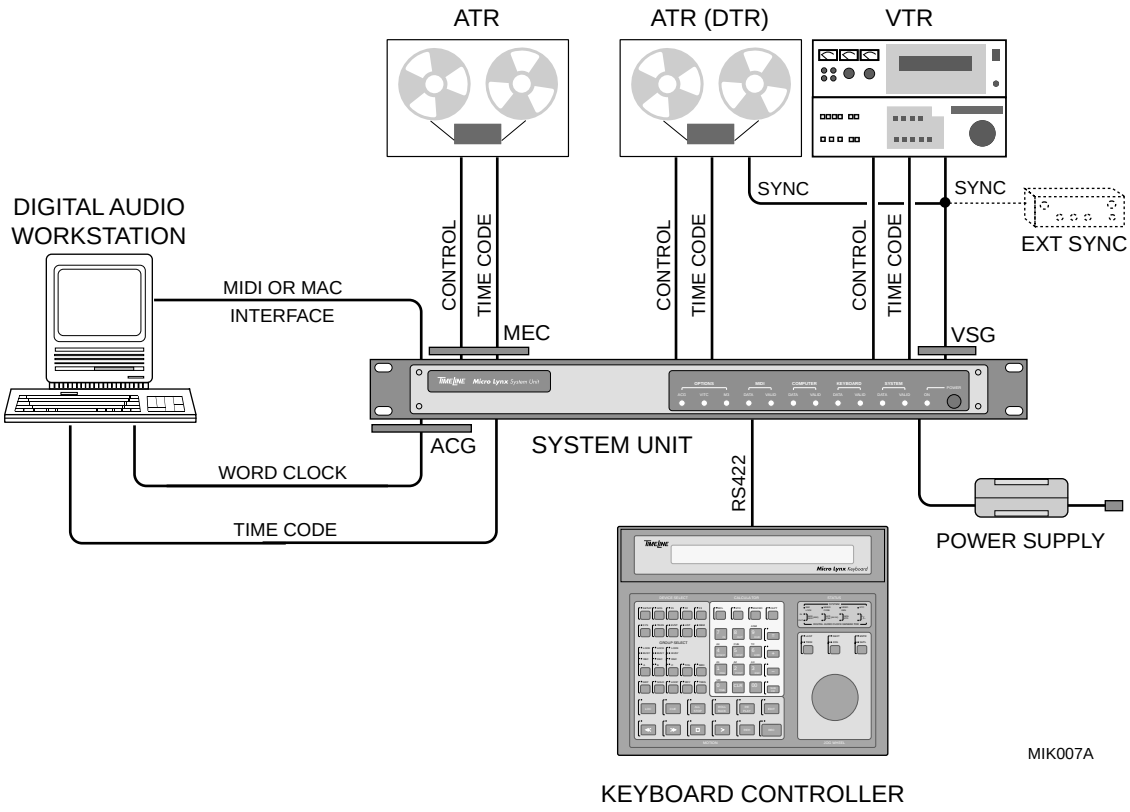

Figure Chapter 2 -5. Micro Lynx with a Digital Audio Workstation

Typical Uses Music composition post-production and Digital Audio Workstation.

With the Audio Clock Generator (ACG) card installed, the Micro Lynx can synchronize a Digital Audio Workstation with the rest of your system. Micro Lynx accomplishes this by providing the Digital Audio Workstation with word and oversample clocks locked to any of the available system references, including varispeed.

Considerations Your Digital Audio Workstation should be able to receive an external word or oversample clock.

Micro Lynx with the Studio System

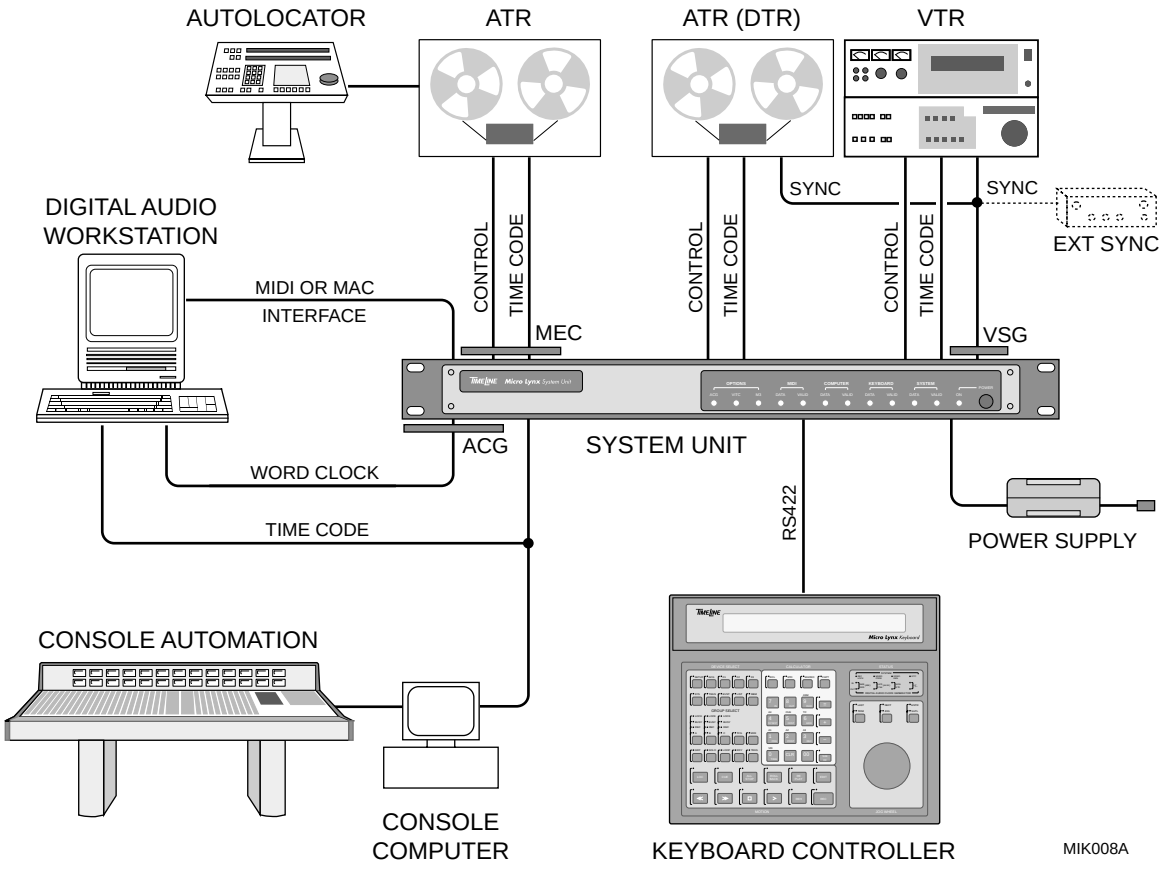

Figure Chapter 2 -6. Micro Lynx with the Studio System

Typical Uses Using the Micro Lynx to it's full potential will give unparalleled control over your audio, video, MIDI, and console automation system. Because it is an integrated synchronization system, everything can be controlled from a single location - the Micro Lynx Keyboard Controller.

Considerations The Micro Lynx system is extremely flexible, but it is limited to three ATR/VTR transports plus the ACG, MIDI, and time code outputs.