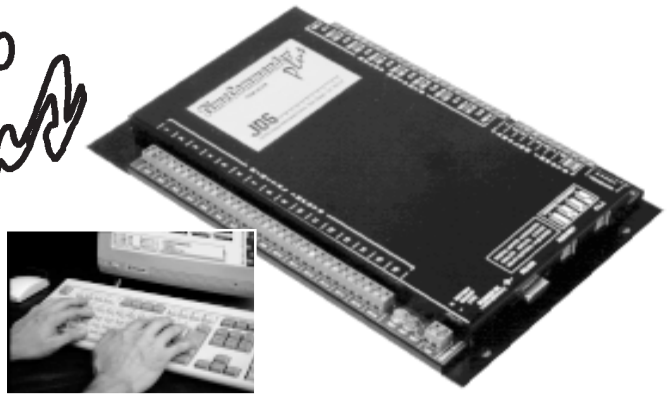
TimeCommander Plus

INTEGRATES SCHEDULING AND CONTROL OF X-10, IR AND I/O DEVICES!



The ***TimeCommander-Plus*** *Computer-Programmable Scheduler/Controller* integrates scheduling and advanced control of X-10, infrared and hardwired input/output devices. The intuitive *Event Manager* software makes programming easy and offers many advanced control features that can be customized to suit any residential or commercial application.

EASY 4-STEP PROGRAMMING

Time- and event-based schedules are easily programmed with a mouse or keyboard by selecting from simple "pop-down" menus. No language to learn or program code to write - the *Event Manager* software (DOS or Windows) writes it for you! Once programmed, the ***TimeCommander-Plus*** can be disconnected from the computer or used together for monitoring and manually controlling devices. The ***TimeCommander-Plus's*** internal clock/calendar tracks sunrise & sunset and automatically adjusts for daylight savings and leap year!

ADVANCED TWO-WAY X-10 CONTROL

In addition to sending X-10 commands, the ***TimeCommander-Plus*** *monitors and identifies* X-10 activity on the power line, allowing intelligent "If-Then-Else/ And-Or" control, based on time, received X-10 commands, and/or hardwired inputs. Programmed routines can be set or triggered at the touch of a button from any X-10 controller, telephone (with the *TeleCommand*), or specialized switch. Many useful tools such as *timers, flags* and *variables* help customize schedules or specific applications.

DIGITAL INPUTS

16 opto-isolated digital inputs accommodate motion detectors, security sensors, thermostats, assistive switching devices and other hardwired devices. Digital inputs are rated 4 - 24v ac/dc. Input status can be logged to a file or printer and monitored/reviewed locally or remotely via modem.

ANALOG INPUTS

8 analog inputs accommodate hardwired temperature and humidity sensors or any device with variable output from 0 - 5vdc. Built-in calibration software provides gain and offset adjustment. Analog input values can be logged to a file or printer and monitored/reviewed locally or remotely via modem.

RELAY OUTPUTS

8 single-pole-double-throw (S.P.D.T.) relays allow connection to security systems, HVAC, speakers, sprinklers, low-voltage lighting, etc. Relay output status can be logged to a file or printer and monitored/reviewed locally or remotely via modem. Relay outputs are rated 1A @ 28v ac/dc.

ASCII INPUT & OUTPUT

The ***TimeCommander-Plus*** can be programmed to respond to ASCII text data (up to 32 characters in length) to trigger any event in the schedule. It can also send ASCII text data to trigger another computer program or control an external modem. Analog input values can also be sent via ASCII.

TWO-WAY INFRARED CONTROL

The optional ***IR-XP² InfraRed Xpander*** allows control of audio and video components in response to any input condition(s) such as time, X-10, IR, analog or digital input, ascii, etc. Custom macros can be programmed to turn on power, select source (am/fm, tv, vcr, cd, etc.), switch channels, set volume level, and even close the drapes and dim the lights - all at the touch of a button or at preset times! IR commands can also be used to trigger events in the system. Together with the ***TeleCommand***, audio/video systems can be conveniently controlled by phone - at home or away - even cordless phones for wireless control!

SYSTEM MONITORING & CONTROL

The multi-purpose ***"MegaController"*** allows *total system monitoring* and *manual control* in a single, on-screen interactive workspace!

MegaController features include:

Interactive Status Display - displays on/off status of all 256 X-10 addresses and allows **manual control** of the entire system using a mouse or keyboard.

Activity Log - logs and displays *date, time, origin,* and *letter/number/function code* of all X-10, IR & I/O commands as they occur.

History button - recalls X-10 activity (previous 200 commands) for review, file or print out - an invaluable tool for monitoring or troubleshooting any X-10 system!

I/O Access - displays status of digital inputs and relay outputs and allows direct control of relays via mouse or keyboard.

A/D Access - reads and displays status of analog inputs.

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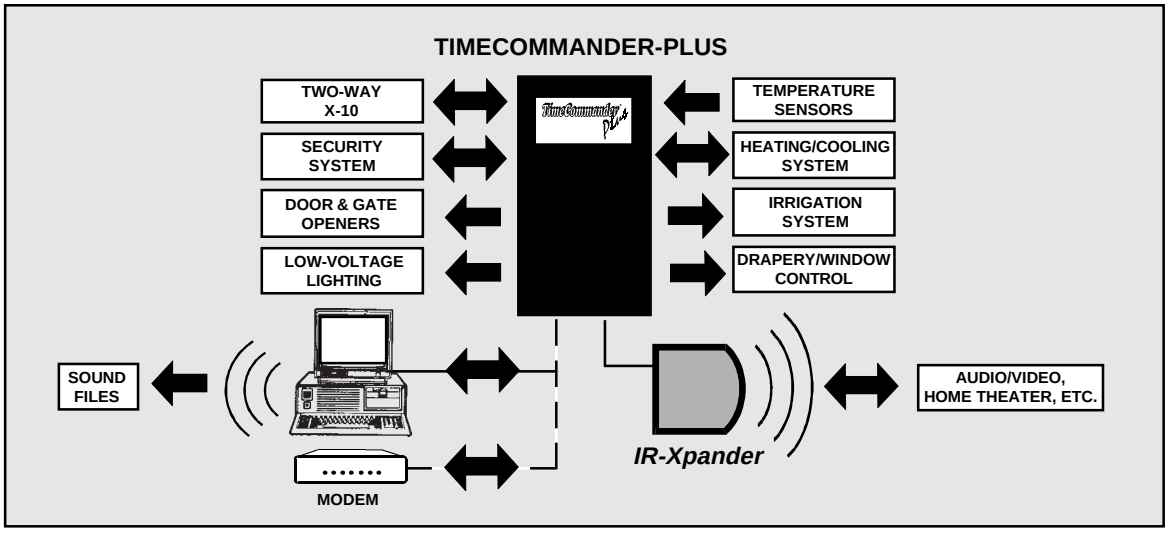

STEP, SET LEVEL & PRESET LEVEL DIMMING

The ***TimeCommander-Plus*** supports several dimming protocols for maximum flexibility when creating custom lighting routines. Dim/Bright commands can be issued in individual steps or by setting the level (Set-Level) to a specific percent. When Set-Level is used, the ***TimeCommander-Plus*** remembers the dim levels it issues and increases or decreases accordingly.

The ***TimeCommander-Plus*** also supports **Preset Dim** and **Micro-Dim/ Bright** commands available with the new PCS series dimmer modules. Preset Dim allows lights to turn on to a specific level without first going to full brightness - even when starting from a full off state! Micro-Dim and Micro-Bright allows very fine adjustments (1/2% increments) for gradual changes in brightness. For example, it can simulate sunrise by gradually increasing brightness over a period of an hour.

MAXIMIZE ANY X-10 CONTROLLER

The ***TimeCommander-Plus*** can extend the functionality of X-10 controllers that only control devices over one letter code such as mini-controllers, maxi-controllers, wireless transmitters, etc. For example: *"If: A1-ON, Then: B2-ON, C3-OFF"* lets controllers set to letter code "A" operate devices set to letter codes "B" and "C"!

X-10 SEQUENCES

A unique "X-10 SEQUENCE" feature lets you program devices to respond to specific combinations of X-10 commands received within a defined time frame. Ideal for protecting computers, doors/gates, heaters, etc. from inadvertent or unauthorized operation! For example:

If: (XSEQ) A1-ON A4-OFF A3-ON is received within 6 seconds,
Then: G9-ON (Open security gate) and G16-ON (Signal the house)

SECURITY SYSTEM INTERFACE

Digital Inputs can be connected "in series" with zone inputs of a security panel allowing security sensors (motion detectors, door/window contacts, etc.) to be used for both security and home automation functions. For example, when at home and the alarm system is disarmed, motion sensors can trigger energy-saving lighting routines!

SECURITY MODE

For added security, lights (and other devices) can be programmed to turn on and off at *approximately* the time you specify to create a "lived in" appearance while you're away or on vacation.

MULTI-MEDIA ACCESS

With the *Event Manager* software (Windows version), you can program sound (.wav) files to be triggered in response to any input condition. This can be used to announce scheduled events such as "time to wake up" or changes to system status such as "security breach," "door open," "alarm set," etc.

REMOTE ACCESS VIA MODEM

The ***TimeCommander-Plus*** can be connected to a modem (9600 baud) and fully operated from a remote computer for off-site programming, monitoring and control! For added security (and reverse billing), a *call-back* feature,when selected, instructs the remote modem to call back a specified number for remote access.

BATTERY BACK-UP

An internal back-up battery maintains the program memory in the event of a power outage. An external battery (12V) can be connected to allow control of inputs & outputs during power outages. A trickle charge is provided to the external battery backup input terminals.

ADVANCED TELEPHONE CONTROL

When used with the ***TeleCommand***, events can be controlled from any on- or off-premise phone, including cordless and cellular phones for convenient wireless control. For example, dialing "*T-V" (*8-8) can turn on the tv, close the drapes, dim the lights, and tune in your favorite channel! It can even mute the tv or stereo automatically when the phone rings! Or you can call home from your car or office to turn up the heat, start dinner, arm/disarm the alarm, change call forwarding to a different number... The possibilities are endless!

SPECIFICATIONS

Power	12VDC, 400mA
Connections	Serial: DB-9, P.L.I./Aux: RJ-11, I/O: Screw terminals
Compatibility	IBM PC, PC-XT, PC-AT or compatible w/ asynchronous serial port
Required operating system (DOS)	PC-DOS or MS-DOS 3.1 or higher
Required operating system (Windows)	Windows 3.1 or higher
Required memory (DOS)	512 KBytes RAM available for use
Required available disk space	800 KBytes (DOS), 2 MBytes (Windows)
Digital inputs	16 (expandable to 112), 4-24V AC/DC
Analog inputs	8 (expandable to 40), 0-5VDC
Relay outputs	8 (expandable to 72), 1A @24VDC
Transmission rate	9600 bps asynchronous
Data format	8 Data Bits, No Parity, One Stop Bit
Delays	Unlimited
Timers	32
Variables	256
Flags	256
Macros	256
Time Labels	16
ASCII	32 characters/line
Lines of code	2100+
Activity Log	Last 200 X-10 transmissions
Message Log	8000 characters
Dimensions	10" x 6" x 1.5"
Weight	39 ounces