MLC 52

BASIC MLC - MEDIALINK™ CONTROLLER

Economical control for
classroom A / V systems

➤ Universal display control

➤ Discrete ON and OFF display power controls

➤ Configurable buttons

➤ Backlit, easy-to-label buttons

➤ Three easy ways to configure: IR learning, preconfigured display drivers, and IR beaming

➤ Inactivity timer for display shutoff

➤ Front panel security lockout

➤ Includes black and white high-impact plastic mounting faceplates

Extron® Electronics

Introduction

The Extron MLC 52 IR and MLC 52 RS Basic MediaLink Controllers are economical control panels ideally suited for classroom A/V systems. Each model comes with a black and white faceplate and offers IR control, while the MLC 52 RS also includes unidirectional RS-232 control. By providing easy input selection, power, and volume control, these controllers make classroom A/V operations simple.

Consistent Control in Every Room

Each MLC 52 controller acts as an extended remote control panel, providing user-friendly control for a display's power, volume, and input selection. Because the MLC 52 IR and MLC 52 RS offer a central point of control for a display device's key functions, they eliminate the need for the display's IR remote control, making operations much more efficient. With the MLC 52 IR and MLC 52 RS, there are no misplaced remotes to search for, no confusing menus to navigate, and no dead batteries.

No matter what brand of display is installed in each presentation venue, the MLC 52 IR and MLC 52 RS MediaLink Controllers always provide a consistent control method from room to room. Presenters with little or no training can walk into any MediaLink equipped classroom and operate the A/V system with minimal effort.

Configurable Buttons for Flexible Control Options

No programming knowledge is necessary to install MLC 52 MediaLink Controllers. The four lower buttons on the MLC 52 IR and MLC 52 RS default to Volume Up, Volume Down, Select PC Input, and Select Video Input. Using the intuitive setup software provided, these buttons can be configured to send out any IR or RS-232 command supported by the display, making it easy to customize the controller to meet the needs of most single-display A/V systems. For example, three of the four buttons could be configured for input selection, with the fourth button dedicated to video mute or auto image.

Each button can store up to four separate commands, providing additional flexibility to meet the specific control requirements for most display devices. When a button is configured for Macro mode, all of the stored commands associated with that button are sent with a single button press. In Toggle mode, the button steps through a series of two, three, or four commands, issuing a single command with each press of the button.

Free Projector drivers

Extron creates and administers a wide selection of commonly used projector control drivers. These IR and serial RS-232 drivers allow MediaLink Controllers to communicate with a display device. They enable control of basic projector functions such as power, input selection, and volume adjustment. Go to the Extron Web site at www.extron.com to download drivers for the latest and most popular projectors.

Three Easy Ways to Configure

The MLC 52 IR and MLC 52 RS enable integrators to choose any of three methods when configuring the controllers. When used with the supplied Windows®-based configuration software, installation files can be saved and used to duplicate additional MLC 52 models. The files can also be archived for later use.

- **IR learning** - Allows MLC 52 controllers to be set up directly from the IR remote without the need for software and a PC.
- **IR beaming** - Quickly and easily duplicates complete configuration from one MLC 52 model to another without cables or software.
- **Extron's easy-to-use configuration software** - Provides fast and simple setup via RS-232 when combined with one of many IR drivers available on the Extron Web site.
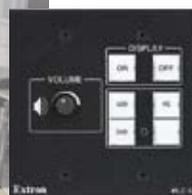
MLC 52 RS VC
MediaLink Controller

Overview

Display ON/OFF
Clearly labeled buttons make it easy and convenient to turn the display on and off, eliminating the need for an external display remote

Volume Control
Provides up and down volume control of the display. If volume control is not required, or additional source switching is needed, these buttons can be configured for input selection or other commands

Optional Mount
An optional MLM 52 VC mounting kit can provide a separate volume knob to control Extron MPA – Mini Power Amp series amplifiers

Inactivity timer for display shut-off
Adjustable timer controls automatic shutdown to conserve energy, prevent plasma burn-in, or extend projector lamp life
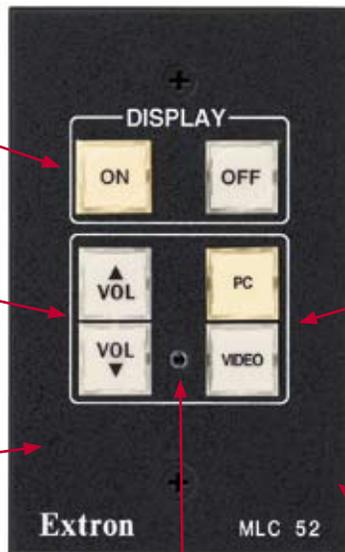
**MLC 52
Front Panel**

Configuration Port
Allows for configuration of the MLC 52 via the front panel

Compact Size
One-gang design easily mounts in a wall or lectern

Backlit Buttons
Illuminated buttons can be custom-labeled with supplied label insert sheets for easy identification. These buttons are helpful for presenters in low-light environments

Multiple Memories
Each button can store up to four IR or serial RS-232 commands

Built-In IR Emitter/Receiver
Enables IR learning of commands from IR remote controls. Also provides IR beaming for controller-to-controller configuration without software

Status LEDs
Provide status of IR learning and configuration
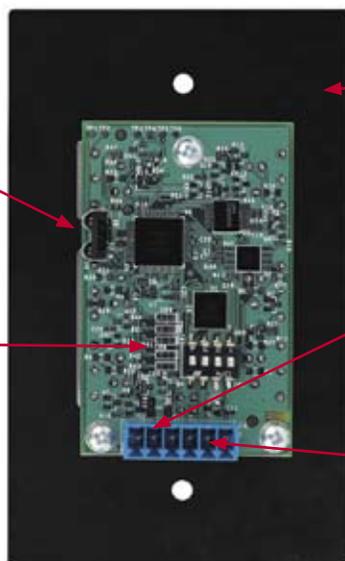
**MLC 52
Back Panel**

Black and White
Includes black and white high impact plastic faceplates and mud ring mount brackets

IR Remote Control Input Port
Hardwired IR input for control with optional IR 402 and IRL 20 or IR Link

Serial RS-232 and IR Ports
Provides serial RS-232 and IR universal display control

MLC 52 Medialink Controller Models

MLC 52 IR
Basic MLC - MediaLink™ Controller with
IR Display Control

UNIQUE FEATURES
- IR port for universal display control
- One-gang faceplate

MLC 52 RS
Basic MLC - MediaLink Controller with IR
and RS-232 Display Control

UNIQUE FEATURES
- IR and RS-232 ports for universal display control
- One-gang faceplate

Sheets of pre-printed button label inserts are included
with every MediaLink Controller.

MLC 52 IR VC
Basic MLC - MediaLink Controller with IR and
Volume Control

UNIQUE FEATURES
- IR port for universal display control
- Integrated volume control knob with 10k potentiometer
  controls MPA - Mini Power Amplifier
- Two-gang faceplate

MLC 52 RS VC
Basic MLC - MediaLink Controller with IR, RS-232,
and Volume Control

UNIQUE FEATURES
- IR and RS-232 ports for universal display control
- Integrated volume control knob with 10k potentiometer
  controls MPA - Mini Power Amplifier
- Two-gang faceplate

MLC 52 MOUNTING OPTIONS

MLC 52 Controller models can be mounted in a standard electrical box or the included mud rings, allowing the controller to be installed virtually anywhere, including walls, lecterns, or tables. Additional mounting options include:

MLM 52 1GWP
One-gang wall mounting kit with metal faceplate,
available in black or white.
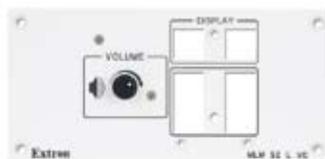
MLM 52 L VC
Metal lectern mounting kit with an integrated volume
control knob that allows for remote volume control of an
Extron MPA Mini Power Amplifier. Available in black or
white.
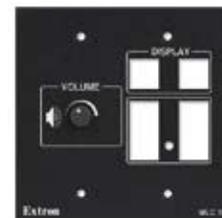
MLM 52 VC
Two-gang wall mounting kit with an integrated volume
control knob that allows for remote volume control of an
Extron MPA Mini Power Amplifier. Includes both black
and white high-impact plastic mounting faceplates. Also
available with black or white metal mounting faceplate.

Application Diagram

**Extron
SI 3CT LP**
Full-Range
Ceiling Speakers - 1 Pair Option

**Extron
SI 3CT LP**
Full-Range
Ceiling Speakers - 1 Pair

**Extron
PCM 240**
Projector Drop
Ceiling Mount Option

**Extron
PMP**
Projector Mount
Pole Option

**Extron
PMK 350**
Pole Mounting Kit

**Extron
UPB 25**
Universal Projector
Mounting Bracket Option

IR

**Extron
MPA 181T**
Mini Power
Amplifier (70V)

Projector

IR Projector
Control

Audio Output

RS-232

**Extron
IPL T S2**
Ethernet Control
Interface Option

**TCP/IP
Network**

Ethernet

Remote
Monitoring,
Scheduling and
Control

Help Desk

MPA Volume
Control

**Extron
MLC 52 IR VC**
MediaLink™ Controller
w/ IR and Volume Control

**Extron
WPB 101**
Composite Video & S-video
w/ Audio Wall Plate

VCR/DVD
Combo Player

**Extron
WPB 103**
VGA & Audio
Wall Plate

Laptop
w/ Audio

Specifications

CONTROL/REMOTE — MLC CONTROLLER HOST PORTS

Serial control port .... 1 front panel 2.5 mm mini stereo jack
(tip-ring-sleeve)
Baud rate and protocol.................................... 9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configurations........................ Mini stereo jack: tip = TX, ring = RX,
sleeve = GND
Program control... Extron's configuration program for Windows®
Extron's Simple Instruction Set (SIS™)

CONTROL — PROJECTOR/PLASMA (MLC 52 RS)

Projector control port .... (1) 3.5 mm direct insertion captive screw
connector, 6 pole for IR and 1-way RS 232
control (port is shared between power input and
IR and 1-way RS-232 projector control)
IR control .... TTL level (0 to 5 V) modulated infrared control from 30 kHz
up to 1 MHz
RS-232 control RS-232 control (1-way) .... ±5 V
Baud rate and protocol (RS-232) .... 57600 to 1200 (9600 default) baud (configurable);
8 (default) or 7 data bits;
1 stop bit (±5 V); no parity (default), or even or odd parity
IR learning frequencies..................................... 30 kHz to 62 kHz
IR learning distance .... 4" (10 cm) to 14" (36 cm) from the front panel

CONTROL — PROJECTOR/PLASMA (MLC 52 IR)

Projector control port .... (1) 3.5 mm direct insertion captive screw connector,
6 pole for IR (port is shared with power input)
IR control .... TTL level (0 to 5 V) modulated infrared control from 30 kHz
up to 1 MHz
IR learning frequencies..................................... 30 kHz to 62 kHz
IR learning distance .... 4" (10 cm) to 14" (36 cm) from the side panel

GENERAL

External power supply .... 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable;
to 12 VDC, 1 A, regulated
Power input requirements .... 12 VDC, 0.15 A
Rack mount.. No, but wall- and furniture-mountable

Enclosure type .... High-impact plastic or metal
Enclosure dimensions
   MLC 52 faceplate .... 4.5" H x 2.75" W x 0.13" D (11.4 cm H x
7.0 cm W x 0.3 cm D) (1 gang)
   MLC 52 VC faceplate .... 4.5" H x 4.6" W x 0.1" D (11.4 cm H x
11.7 cm W x 0.3 cm D) (2 gang)
Device... 2.5" H x 1.6" W x 1.5" D (6.4 cm H x 4.1 cm W x
3.8 cm D) (Depth excludes connectors and buttons.)
Product weight .... 0.2 lbs (1 kg)
Shipping weight.. 3 lbs (2 kg)
Vibration .... ISTA 1A in carton (International Safe Transit Association)
Listings... UL, CUL
Compliances .... CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF.. 30,000 hours
Warranty .... 3 years parts and labor
NOTE: All nominal levels are at ±10%

GENERAL (CONT.)

Model	Version Description	Part Number
MLC 52 IR	IR Control - Black & White..	60-744-02
MLC 52 RS	IR and RS-232 Control - Black & White.......................................	60-744-12
MLC 52 IR VC	IR and Volume Control - Black & White	60-745-02
MLC 52 RS VC	IR, RS-232, and Volume Control - Black & White	60-745-12

Optional Accessories

CFG Cable	9 DB Female-2.5 mm TRS Config Cable - RS Version Only	70-335-01
IPL TS 2	Two Serial Port IP Link Ethernet Control Interface	60-544-01
IR Link	Wall-Mountable IR Signal Repeater..	60-404-02
IR Sensor	Remote IR Receiver	70-223-01
MLM 52 VC	Two-Gang Wall Mounting Kit with Volume Control - Black & White	70-527-02
MLM 52 VC	Two-Gang Wall Mounting Kit with Volume Control - Black Metal ..	70-538-02
MLM 52 VC	Two-Gang Wall Mounting Kit with Volume Control - White Metal ..	70-538-03
MLM 52 1GWP	Metal One-Gang Wall Mounting Kit for the MLC 52 Series - Black	70-498-02

Included Accessories

12V, 1A power supply	100-240VAC, 50/60Hz, to 12VDC,1A, wire................................	70-055-01
MLC 52 Series Button Labels	Text and Icon Labels..	33-1262-01
International Labels	MediaLink International Faceplate Labels..................................	33-1167-0X
IR Emitter and Shield Kit	IR Emitter Kits	70-283-01
Plastic Mud Ring	Black & White	70-519-X1

Specifications are subject to change without notice.