



HDMI Switcher's MANUAL

Model: ML401 HDMI



“ML-401 HDMI switcher” with Equalization and Re-clocking

INTRODUCTION

Milestone HDMI SWITCHER by Milestone is a device that helps person/s to share computers (laptops or DVD player with HDMI out) with single projector or single monitor or LCD or Plasma.

APPLICATIONS:

Application for these switcher can be a multiple HDMI input selection for a single display or it could be a 4 PC with HDMI output to 1 projector connection in board room, meeting room or presentation room, could be used for staging application also.

Features

Installation	Easy to install - plug and play kind. <ul style="list-style-type: none"> • HDTV Compatible • Can work with DVI inputs & outputs • Uses Equalization & re-clocking technology.
Sharing	4 HDMI Inputs with single projector or single monitor or LCD or Plasma with HDMI input
Compatibility	Fully compatible to HDMI Inputs.
Control Options	Channels Controlled by <ul style="list-style-type: none"> • Individual Local keypad • Individual remote keypad (optional). (IR, RF or Wired) • Remote contact closure. port • RS232C interface RS422/RS485 (optional). • Ethernet (Option). • Active PCs selected or scanned in auto/scan mode.
Indication	LED indication for working set.
Power Supply	230 V. power adapter



Specifications

Model	401 HDMI
Input Connectors	4 x HDMI
Output Connectors	1 x HDMI
LED Indication	1 to 4 & Power
Keypad Selection on front panel	1 to 4
Remote Keypad / Contact closure	D9M x 1
RS232 interface for control	D9F x 1
IP control / RS485 interface	Optional *
Operating Distance for Remote Key Pad	30 Meter
Mains input (DC) adapter provided	DC5V
Dimension :	
Table top	5x18x10 cm (h/w/d)
Rack Mountable	19"-1U
Weight	850 g.
Mode of Operation	
1. Manual	From front panel
2. Auto	Auto sensing
3. Scan* (optional)	Auto channel scan*



Operation

Local Keypad

Select the required channel from the front panel keypad.

Remote Contact Closure / Remote Keypad (optional)

Rear panel has a D9 male connector, connect wired keypad or RF remote or IR remote contact closure can be connected on the same port by supplied cable, which works at a distance of 30 meter.

Remote RS232 interface

Rear panel has a D9 female connector, it is used for selecting the switcher's input through RS232C interface, any third party controller i.e. Crestron / AMX can be connected directly on above connector. The pin configuration are as per table-1 for connectivity with third party RS232C port.

TABLE 1

DB-9 female connector Pin No.	Signal Name
3	Rx
5	GRD / signal Ground

RS232c simple command set used for selecting channels are as follows.

TABLE 2: RS 232 command

Channel / input	Decimal	ASCII
CHANNEL -1	1!	31,21
CHANNEL -2	2!	32,21
CHANNEL-3	3!	33,21
CHANNEL-4	4!	34,21
CHANNEL-9	9!	39,21
CHANNEL-10	a!	61,21



CHANNEL-11	b!	62,21
:	:	:
CHANNEL-16	g!	67,21

Communication parameters for RS232C are as follows:

Parameters	Setting in third party device
Baudrate	9600
Parity	None / No parity
Bits	8 bits
Stop Bit	1 stop bit
