



AUDIO SWITCHER'S MANUAL



Milestone's "AUDIO" Switcher is a device that helps person/s to share multiple Audio and Video source with single / multiple projector.

| Models Available : | |
|--------------------|------------------------------|
| ML 401 AUDIO | 4 Audio input > 1 Audio out |
| ML 402 AUDIO | 4 Audio input > 2 Audio out |
| ML 802 AUDIO | 8 Audio input > 2 Audio out |
| ML 1602 AUDIO | 16 Audio input > 2 Audio out |

| Features : | |
|---------------|--|
| Installation | Easy to Install 100% Plug and Play Unit |
| Sharing | 2/4/8/16 input with Audio > single or dual stereo Audio Output |
| Compatibility | 100 % compatible to standard Stereo output |
| Selection | Channels Selectable from: <ul style="list-style-type: none">• Individual front panel local key pad• Individual Remote key pad (<i>optional</i>)• RF Remote Controller (<i>optional</i>)• IR Remote Controller (<i>optional</i>)• RS232C Interface (<i>Not applicable to ML401AV</i>)• RS485 / 422 Interface (<i>optional</i>) |
| Indication | LED Indication for working channel |
| Audio Input | Stereo inputs |
| Audio Output | Pre-amplified Stereo output |



| Technical Specifications | | | | |
|---------------------------------|------------|------------|------------|-----------|
| Models | ML401 AV | ML402 AV | ML802 AV | ML1602 AV |
| Audio I/P (RCA) | 4 | 4 | 8 | 16 |
| Audio O/P (Captive screw) | 1 | 1 | 1 | 1 |
| Audio O/P (3.5mm Stereo) | 1 | 1 | 1 | 1 |
| Selected input indication | LED | LED | LED | LED |
| Power indication | LED | LED | LED | LED |
| Key Pad Selection | 1 to 4 | 1 to 4 | 1 to 8 | 1 to 16 |
| Remote contact closer Port | D9M x 1 | D9M x 1 | D9M x 1 | D9M x 2 |
| RS232 Interface port | N/A | D9F x 1 | D9F x 1 | D9F x 1 |
| Gain controlled Output ou | N/A | Yes | Yes | Yes |
| Operating by Remote | 50 Meter | 50 Meter | 50 Meter | 50 Meter |
| Mains Input (AC.) | 230 V | 230 V | 230 V | 230 V |
| Dimension (Table Top) | 288x130x52 | 288x130x52 | 288x130x68 | N/A |
| Dimension (Rack Mount); | 19" 1U | 19" 1U | 19" 2U | 19" 2U |
| Weight for (Table top) | 1700g | 1970g | 2300g | N/A |
| Weight for (Rack Mount) | 3000g | 3500g | 4250g | 4770g |

(# = Optional)

All above units are available in 19"-1U or 19"-2U size at extra cost



Operation :

There only one mode in this switcher and that is

“Manual Mode”

Manual Mode Installation:

Selection of Manual mode:

To use the switcher in manual mode keep slide switch on manual mode on back panel of the unit.

Local Keypad:

Select the required channel from the front panel keypad.

Remote contact closure / remote keypad

Rear panel has a D9 Male connector, where you can connect Milestone RF/IR/ cable through remote contact closure or you can connect programmable any other key pad or remote which is available in market.

The connector diagram for D9 male connector is as follows:

| D-9 Male | Channels |
|----------|----------|
| 1 | CH1 |
| 2 | CH2 |
| : | : |
| : | : |
| 8 | CH8 |
| 9 | GRD |

Note : to select channel 1, short 1 and 9 through contact switch or use Milestone’s remote keypad / RF remote controller / IR remote controller.



Remote RS232 Interface

D9 female connector from rear panel is used for selecting the switcher through RS232 interface.

The pin configurations are:

| D-9 Male | Channels |
|----------|----------|
| 3 | RX |
| 5 | GRD |

The simple command used for selecting the channels is

| Input Channel | Decimal | ASCII |
|---------------|---------|--------|
| Channel 1 | 1! | 31, 21 |
| Channel 2 | 2! | 32, 21 |
| : | : | : |
| : | : | : |
| Channel 8 | 8! | 38, 21 |

Communication parameters are 9600 baud, 8-bit, 1 stop bit and no parity.