



OPERATING MANUAL
FOR
VGA AUDIO SWITCHER

Milestone Electronics Pvt. Ltd.

VGA AUDIO SWITCHER

VGA AUDIO SWITCHER by Milestone is a device that helps person/s to share computers (or laptops) with multiple projectors and monitors, providing simultaneous displays with Audio Outputs.

Models available

ML 202 VGA AUDIO	2 CPUs with 2 VGA & 2 Audio outputs
ML 402 VGA AUDIO	4 CPUs with 2 VGA & 2 Audio outputs
ML 802 VGA AUDIO	8 CPUs with 2 VGA & 2 Audio outputs
ML1602 VGA AUDIO	16 CPUs with 2 VGA & 2 Audio outputs
ML 404 VGA AUDIO	4 CPUs with 4 VGA & 4 Audio outputs
ML 408 VGA AUDIO	4 CPUs with 8 VGA & 8 Audio outputs

Features

INSTALLATION	Easy to install - plug and play kind.
SHARING	2/4/8/16 CPUs with multiple projectors and monitors with stereo audio system.
COMPATIBILITY	Fully compatible to VGA, SVGA & EVGA monitors & PC stereo audio output.
SELECTION	Channel selectable from <ul style="list-style-type: none"> ● Individual front panel local keypad. ● Individual remote keypad (optional). ● Remote contact closure. ● RS232C interface. ● RS422/RS485 interface (optional). ● Active PCs selected or scanned in auto/scan mode.
INDICATION	LED indication for working set.
VGA OUTPUT	Gain control output for optimal viewing.
STERIO AUDIO OUTPUT	<ul style="list-style-type: none"> ● Normal stereo output for O/P1.
CABLES	<ul style="list-style-type: none"> ● Standard VGA cables for VGA I/P & O/P. ● Standard stereo Audio cables (as used with PC) for Audio I/P and O/P.

SPECIFICATIONS

MODEL	202 VGA, AUDIO	402/404/408 VGA AUDIO	802 VGA, AUDIO	1602 VGA, AUDIO
INPUT CONNECTORS				
• D15F (VGA)	2	4	8	16
• 3 PIN CAPTIVE SCREW CONNECTOR (AUDIO)	2	4	8	16
OUTPUT CONNECTORS				
• D15F	2	2/4/8	2	2
• 3 PIN (AUDIO) CAPTIVE SCREW CONNECTOR	1	1/4/8	1	2
• EP CONNECTOR	1	1/0/0	1	-
LED INDICATION	1 to 2 and PWR	1 to 4 and PWR	1 to 8 and PWR	1 to 16 and PWR
KEYPAD SELECTION	1 to 2	1 to 4	1 to 8	1 to 16
REMOTE KEYPAD / CONTACT CLOSURE	D9M × 1	D9M × 1	D9M × 1	D9M × 2
RS 232 INTERFACE	D9F × 1	D9F × 1	D9F × 1	D9F × 1
GAIN CONTROLLED VGA OUTPUT	YES	YES	YES	YES
GAIN CONTROLLED VGA AUDIO OUTPUT (O/P 2 ONLY)	YES	YES	YES	YES
OPERATING DISTANCE FROM REMOTE KEYPAD.	30 M	30 M	30 M	30 M
MAINS INPUT (AC)	230 V	230 V	230 V	230 V
DIMENSION				
• TABLE TOP (mm)	288×130×52	288×130×52	288×130×68	----
• RACK TYPE	----	1U(404) 2U(408)	----	2 U
WEIGHT	1700 g	1970 g	2300 g	4770 g

OPERATION

A. MANUAL MODE

Keep slide-switch to manual position

◆ Local Keypad

Select the required channel from the front panel keypad.

◆ Remote contact closure/ remote keypad

Rear panel has a D9 male connector, operational at a distance of 50 meters. Milestone's remote keypad or any other remote contact closure can be connected at this connector.

The connector diagram for D9 male connector is as follows:

D-9 MALE	CHANNELS
1	CH1
2	CH2
:	:
:	:
8	CH8
9	GRD

Note: 1. To select channel 1, short 1 and 9 through contact switch or use Milestone's remote keypad.

2. For 1602 VGA Audio Unit 2 D9 Pin connectors are given ; one for 1 to 8 selection and another for 9 to 16 selection

◆ Remote RS232 interface

D9 female connector from rear panel is used for selecting the switcher through RS232C Interface.

The pin configuration is

D-9 FEMALE	SIGNAL
3	Rx
5	GRD

The simple command used for selecting the channels is

CHANNEL	DECIMAL	ASCII
CHANNEL1	1!	31, 21
CHANNEL 2	2!	32, 21
:	:	:
CHANNEL 9	9!	39, 21
CHANNEL10	a!	61,21
CHANNEL11	b!	62,21
:	:	:
CHANNEL16	g!	67,21

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

Whenever any channel is selected there will be a feedback from the switcher on RS232 port i.e. when channel 1 is selected, switcher will send 1! on the serial port pin no. 2. Similarly 2! for channel 2 and so on.

B. SCANNING MODE (AUTO SWITCHING) (OPTIONAL)

For scanning mode, keep slide-switch in scan position. Scanning time for each channel is 5 seconds.

Scan mode operates in two ways: -

◆ **Scanning for the activated PCs or laptops only: -**

In this mode, scanning will be done for activated PCs only. This mode can also be used as auto switching mode.

◆ **Scanning of all the PCs or laptops regardless of the activated PCs:-**

Short all the pins of D9 pin male connector designated as ‘SELECT’ (using another D9 Female Connector i.e.1 to 9 pins) at the rear panel. In this mode scanning of all PCs is done regardless of the PC’s status (ON or OFF)

C. **AUTO MODE**

For Auto mode, keep slide-switch in Auto position.

Auto mode works on priority basis. First priority is given to Channel 1, 2nd priority to channel 2 and so on.

For example if Sync signal is detected on channel 2 and channel 3 simultaneously, only channel 2 will get selected on priority basis. Channel 3 can be selected only when channel 1 and channel 2 are deactivated.

---X---X---X---X---

