



OPERATING MANUAL
FOR
VGA SWITCHER

Milestone Electronics Pvt. Ltd.

VGA SWITCHER

VGA SWITCHER by Milestone is a device that helps person/s to share computers (or laptops) with single projector and single monitor, providing simultaneous displays.

Models available

ML 202 VGA	2 CPUs with 2 VGA outputs
ML 402 VGA	4 CPUs with 2 VGA outputs
ML 802 VGA	8 CPUs with 2 VGA outputs
ML 1602 VGA	16 CPUs with 2 VGA outputs
ML 404 VGA	4 CPUs with 4 VGA outputs
ML 808 VGA	8 CPUs with 8 VGA outputs

Features

INSTALLATION	Easy to install - plug and play kind.
SHARING	2/4/8/16 CPUs with single projector and single monitor.
COMPATIBILITY	Fully compatible to VGA, SVGA & EVGA monitors.
SELECTION	Channel selectable from <ul style="list-style-type: none">· Individual 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.
OUTPUT	Gain control output for optimal viewing.

SPECIFICATIONS

MODEL	202 VGA	402/404 VGA	802/808 VGA	1602 VGA
INPUT CONNECTORS D 15 (VGA)	2	4	8	16
OUTPUT CONNECTORS D 15 (VGA)	2	2/4	2/8	2
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
OPERATING DISTANCE	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 (808)	2 U
WEIGHT	1600 g	1770/1850 g	2500 g	3770 g
MODE OF OPERATION				
1) Manual	Yes	Yes	Yes	Yes
2) Auto	Yes	Yes	Yes	Yes
3) Scan (Optional)	Yes	Yes	Yes	Yes

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-1 Pin No.	CHANNELS
1	CH1
2	CH2
:	:
:	:
8	CH8
9	GRD

D-9 MALE-2 Pin No.	CHANNELS
1	CH9
2	CH10
:	:
:	:
8	CH16
9	GRD

Note 1: To select any channel, short respective pin to ground i.e. pin no. 9 through contact switch or use Milestone's remote keypad.

Remote RS232 interface

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

The pin configurations are

D-9 FEMALE	SIGNAL
3	Rx
5	GRD

The simple commands used for selecting the channels are

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. SCAN MODE (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.

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

Short all the pins of D9 pin connector (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 PCs are 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---

