

VIDEO WALL CONTROL PROGRAM

User manual [EK Series]

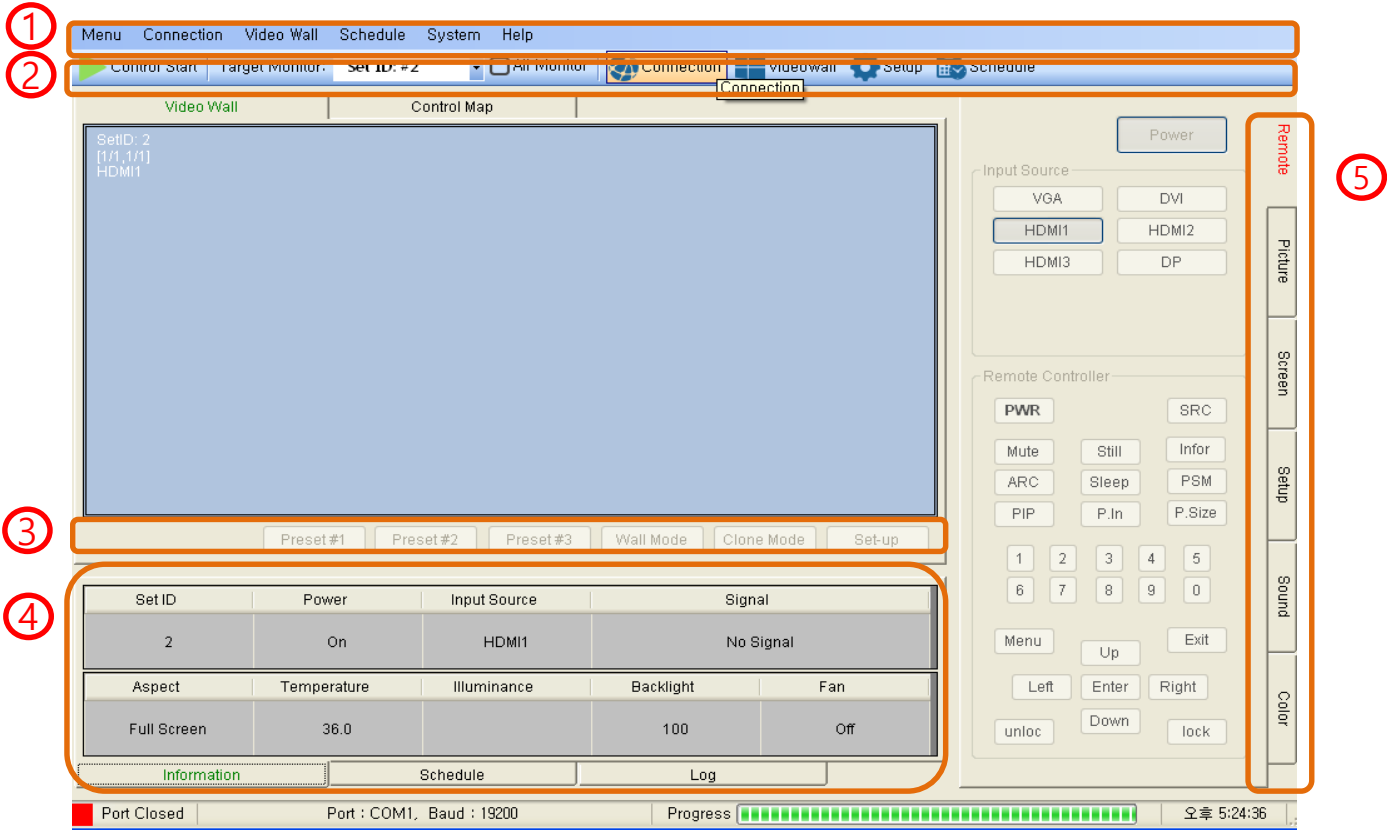
Instruction

- The program is designed to be a user friendly method for controlling a large number of monitors through RS-232C or TCP/IP interface
- Create & Edit monitor System Controller Map.
This is available to save the layout of the System Controller Map as a file format
- Control a Large Number of Monitors.
By using the Control Panel it is possible to control one or more monitors.
- Status Display
Status readouts for each Monitor can be displayed.
- System Requirements
This program only runs on Windows XP or above.
Microsoft .NET framework 4.0 or later.

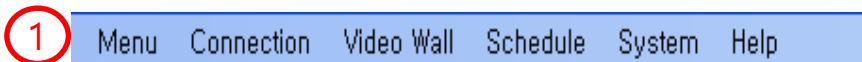
How to Install program

- **Microsoft .NET Framework 4 must be installed. (or later)**
 - Double-click on the setup icon
 - Follow setup wizard instructions
 - After installation is completed, a shortcut button will be shown on the PC and in the start menu.

Running Control program and Structure



Menu Bar 1



Menu

Save: Saves current settings (User1, User2, User3)

Load: Loads saved settings (Default, User1, User2, User3)

Save File: Save the current setting to a file.

Load File: Load the file setting of a save file.

Menu Bar



Connection

Configuration: Displays the serial port and TCP/IP information

Interface: Display the selected connection method (RS232 or TCP/IP)

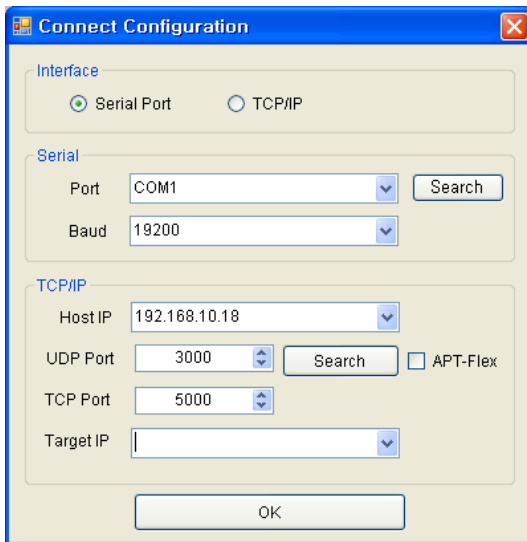
Com Port: Show the connected serial port (Only if the RS232 is selected will it be enabled)

Baud rate: Show the serial communication speed (Only if the RS232 is selected will it be enabled)

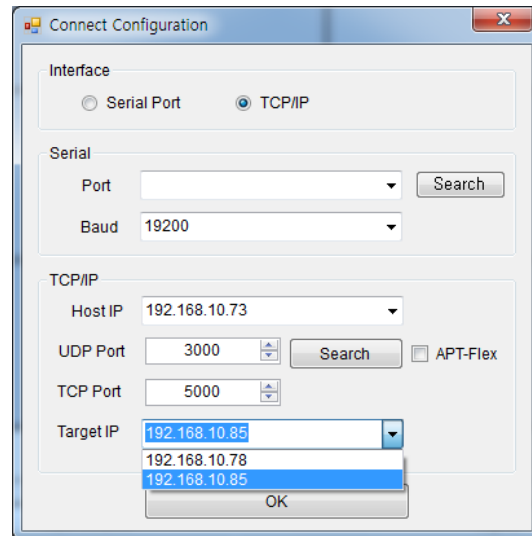
Host IP Address: Shows IP address of the PC where the program is running (Only if the TCP/IP selected will it be enabled)

Target IP Address: Shows IP address of the monitor (Only if the TCP/IP selected will it be enabled)

Search: Looks for the IP address of the connected monitor (See pic#1)



[Serial Port setting]



[TCP/IP setting]

Picture	Network	Enable
Color	Load Network Setting	
Video Wall	DHCP	On
PC-RGB	IP Address	174.168.10.7
Audio	Gateway	174.168.10.1
Heat Control	Subnet	255.255.255.0
Network	Save Current Setting	
Timer		
Other Setting		

[pic#1]

Video Wall Control Program



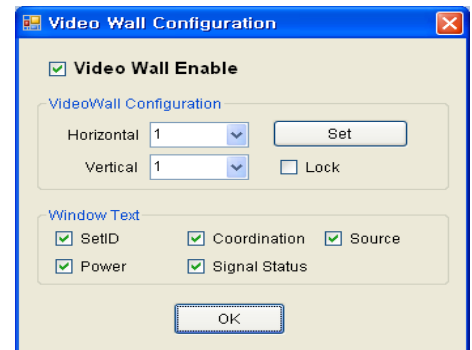
Menu Bar 1



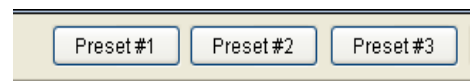
Video Wall

Configuration: Displays configuration of video wall.

Users can select the settings in single mode and multi mode

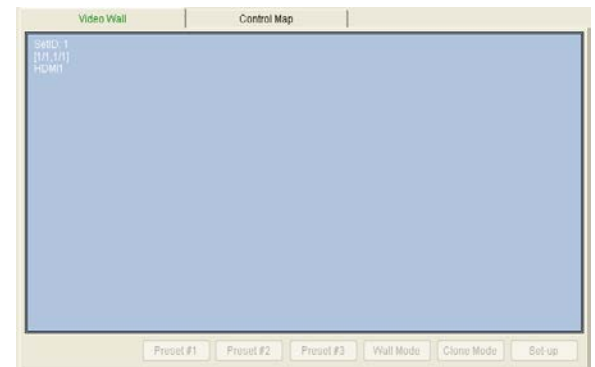


Save Preset button: Recall preset/saved video wall layouts

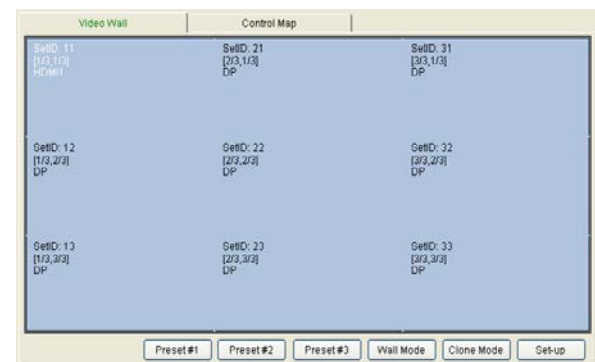


Video Wall Control

User can control multiple or all displays in a video wall array in a single operation by right-clicking (Read Status, Read All Parameters, Set Coordinate, Source, Set ID)



[Video Wall _ Single mode]



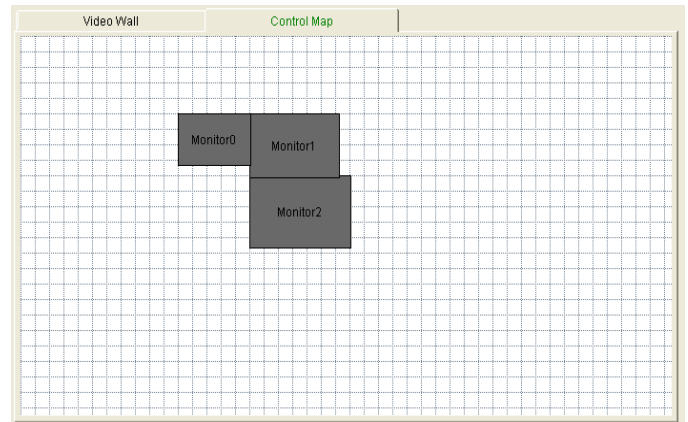
[Video Wall _ Multi mode]

Menu Bar 1



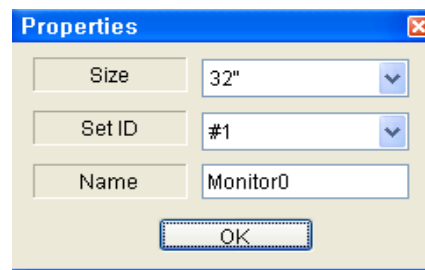
Video Wall -> Control Map

User can edit the video wall “map” and conduct controls in this tab



Right-click a monitor in the Control Map and you will see the following popup window (see right):

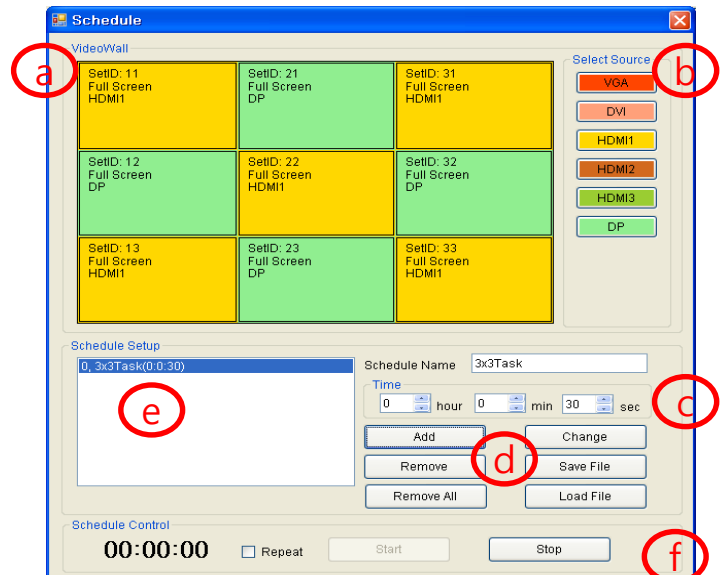
From here, you can select screen size, change Set ID# and name the monitor.



Schedule

Users can select layouts and duration of said layouts:

- Select the monitor in the window of video wall.
- Select the input source to drive the monitor.
- Select the time to drive the monitor.
- User can make settings such as adding and removing.
- User can see the set schedule.
- Time display and control buttons display



Video Wall Control Program



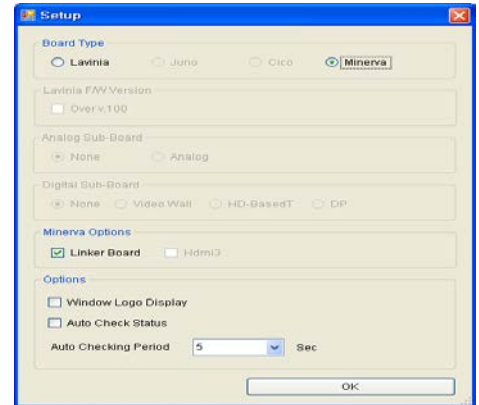
Menu Bar 1



System -Setup

Board Type: make a choice MINERVA selection.

MINERVA Option: Linker Board



Menu Bar 2



Control Start

After adjusting settings, select "Control Start". To stop communication, select "Control Stop"



Target Monitor

Select the SET ID of the control monitor

All Monitor

Conduct control on all monitors in video wall at once

Connection

The same function as Menu Bar 1.

Video wall

The same function as Menu Bar 1

Set up

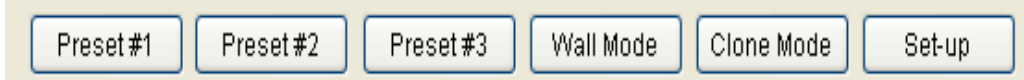
The same function as Menu Bar 1

Schedule

The same as the Schedule item in Menu Bar 1.

Menu Bar 3

3



Preset

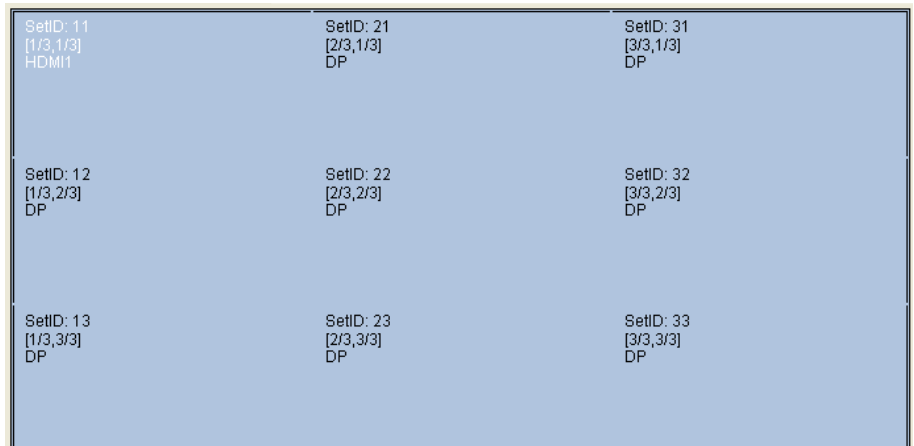
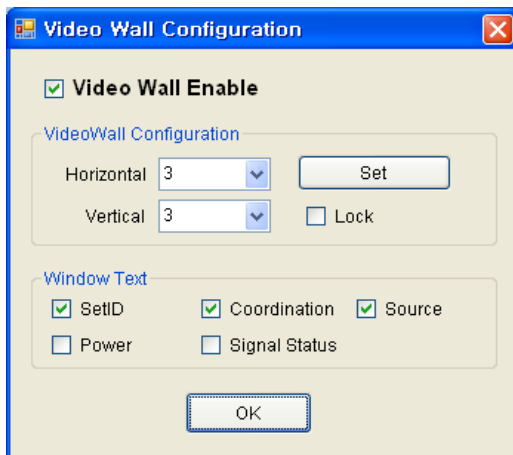
Used when loading previously-saved settings.

Wall Mode

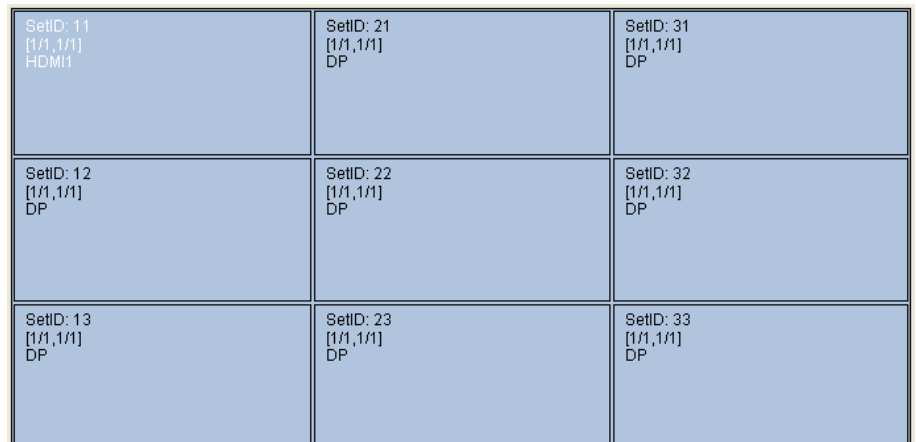
Expands input source signal across entire video wall array.

Clone Mode

Shows input source signal on each individual display (signal duplicated on each screen).



[Wall Mode-Video wall Mode]



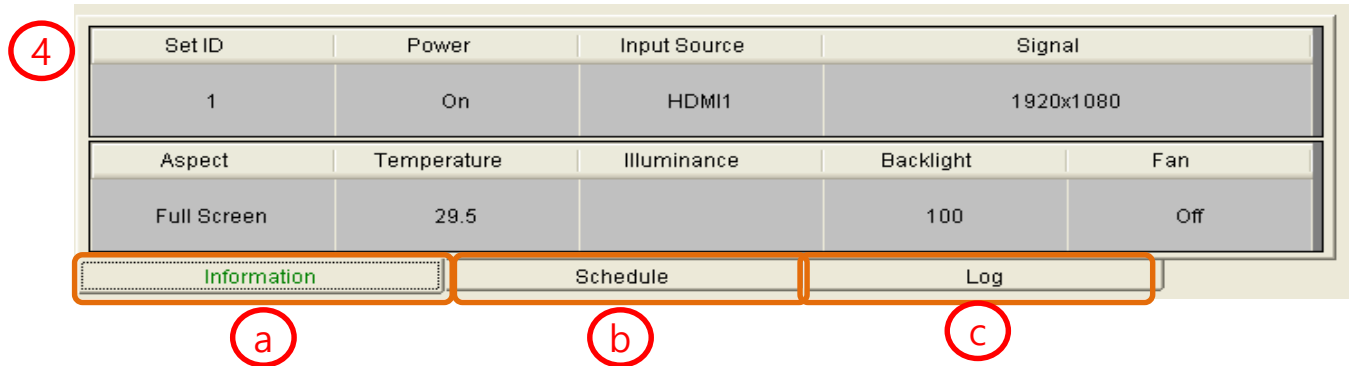
[Clone Mode-Single Mode]

Menu Bar 4-Status

Information - a

Shows status readout of selected monitor

Right-click in the video wall window and then select "read status".



Set ID	Power	Input Source	Signal
1	On	HDMI1	1920x1080

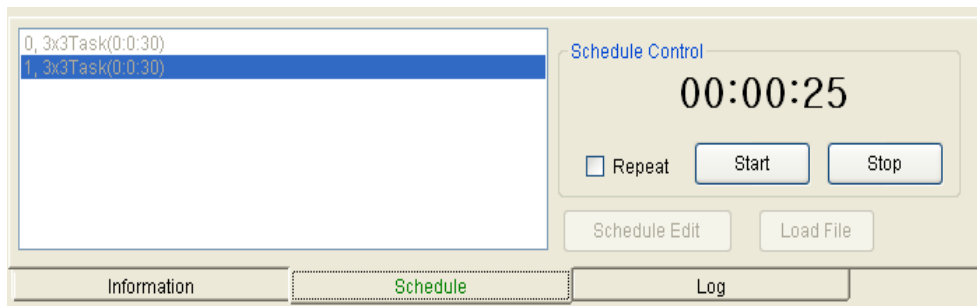
Aspect	Temperature	Illuminance	Backlight	Fan
Full Screen	29.5		100	Off

Information (a) Schedule (b) Log (c)

Schedule - b

This shows any schedules set for the monitor.

Please refer to the schedule function for more info on scheduling.



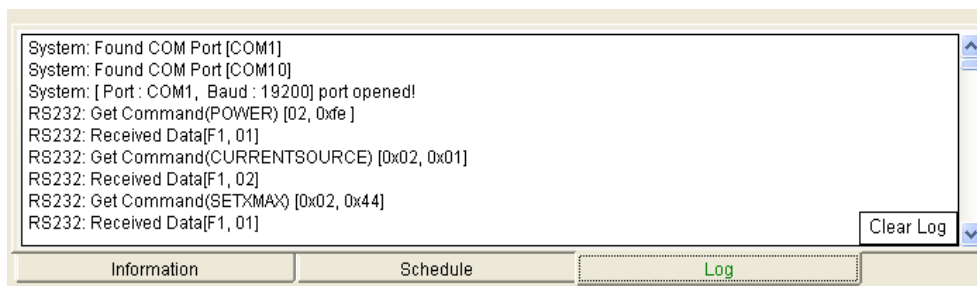
0, 3x3Task(0:0:30)
1, 3x3Task(0:0:30)

Schedule Control
00:00:25
 Repeat Start Stop
Schedule Edit Load File

Information Schedule (b) Log

Log - c

Shows past control functions visited on monitor.



```
System: Found COM Port [COM1]
System: Found COM Port [COM10]
System: [ Port : COM1, Baud : 19200] port opened!
RS232: Get Command(POWER) [02, 0xfe]
RS232: Received Data[F1, 01]
RS232: Get Command(CURRENTSOURCE) [0x02, 0x01]
RS232: Received Data[F1, 02]
RS232: Get Command(SETXMAX) [0x02, 0x44]
RS232: Received Data[F1, 01]
```

Clear Log

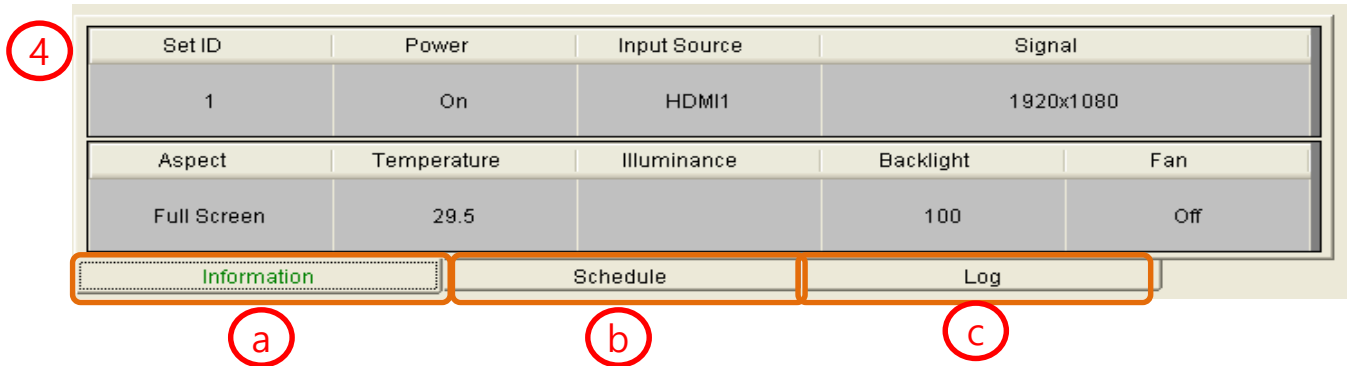
Information Schedule Log (c)

Menu Bar 4-Status

Information - a

The user can check the current state of the monitor

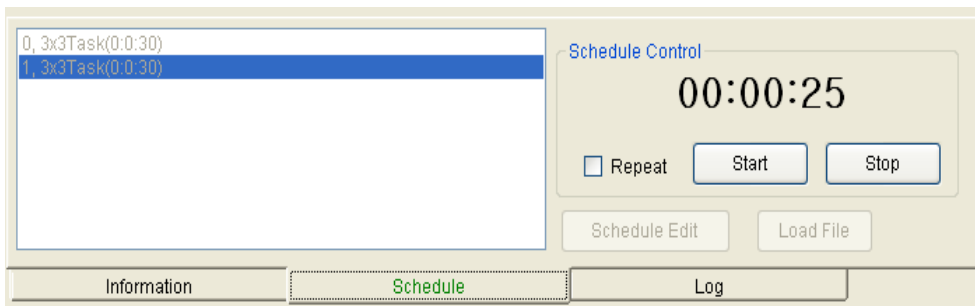
Press the right button of the mouse in the video wall window, and then select read status.



Schedule - b

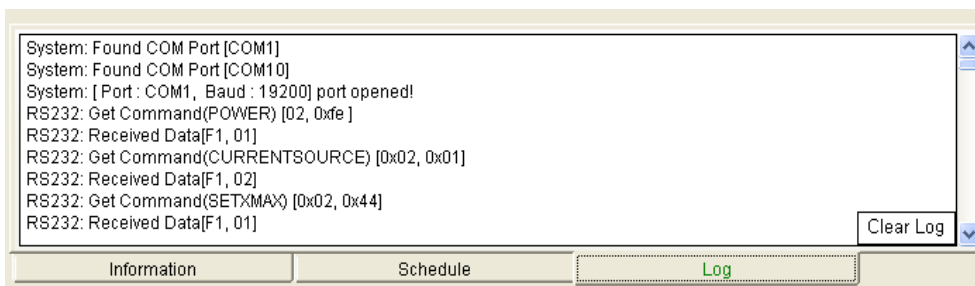
The user can check the schedule state of the monitor.

Please refer to the schedule function.



Log - c

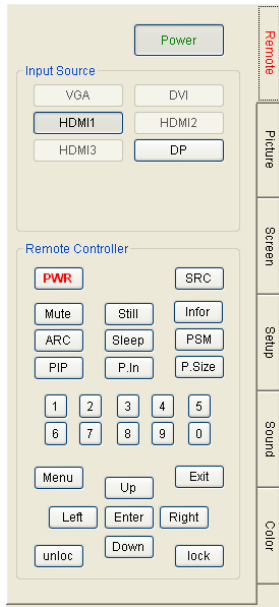
The user can confirm the record of the execution of the program



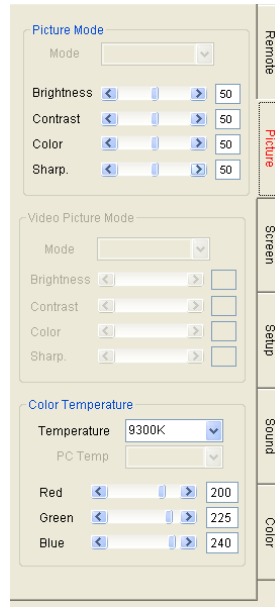
Menu Bar 5 – Control function

Control Function

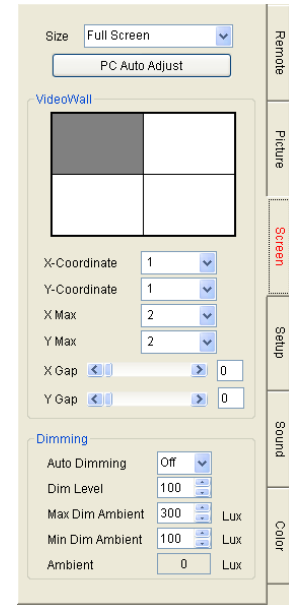
See below for a look at each control tab:



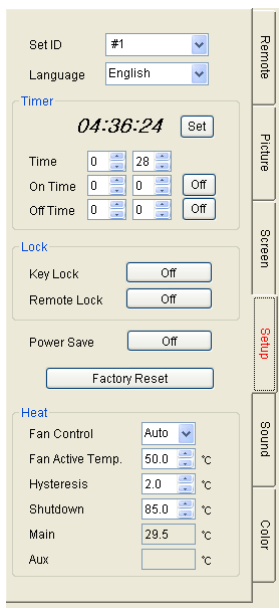
[Remote control]



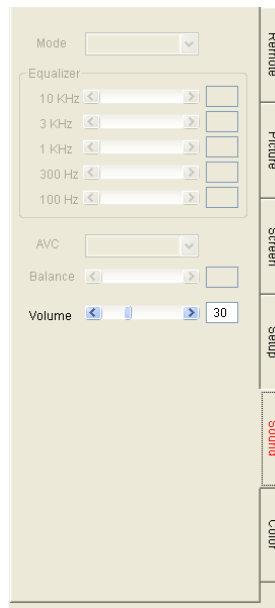
[Picture]



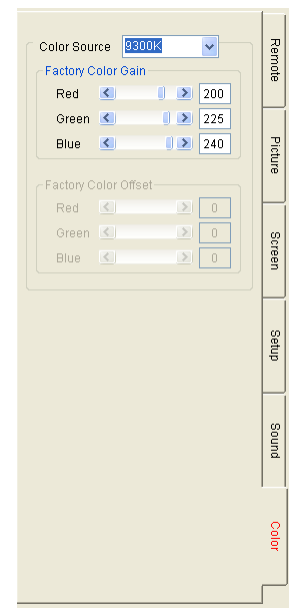
[Screen]



[Setup]



[Sound]

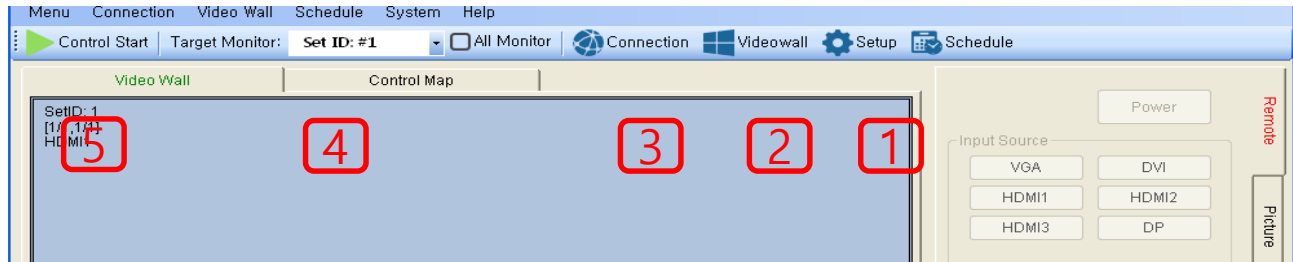


[Color]

Video Wall Control Program



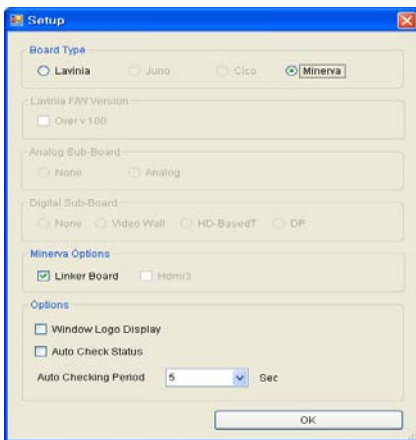
Example



Control Procedure

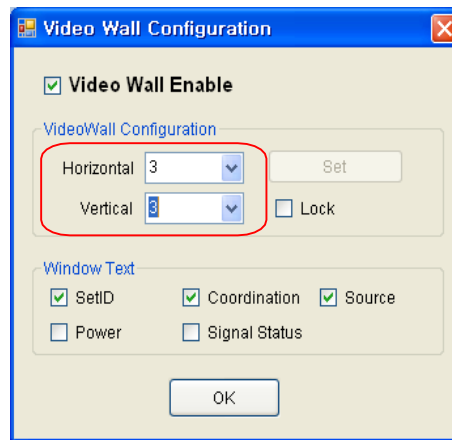
1) Setup

Select the model



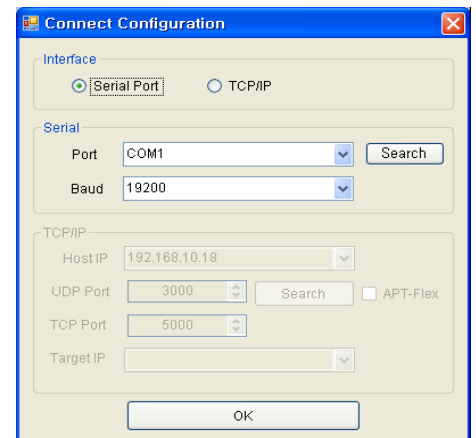
2) Video Wall Configuration

Select desired configuration



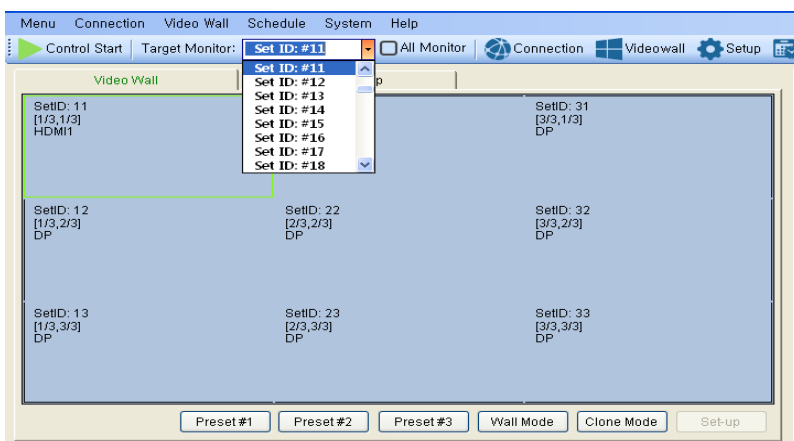
3) Connection

Select connection method (Serial or TCP/IP)



4) SET ID

Assign Set ID #'s to monitors



5) Control Start

