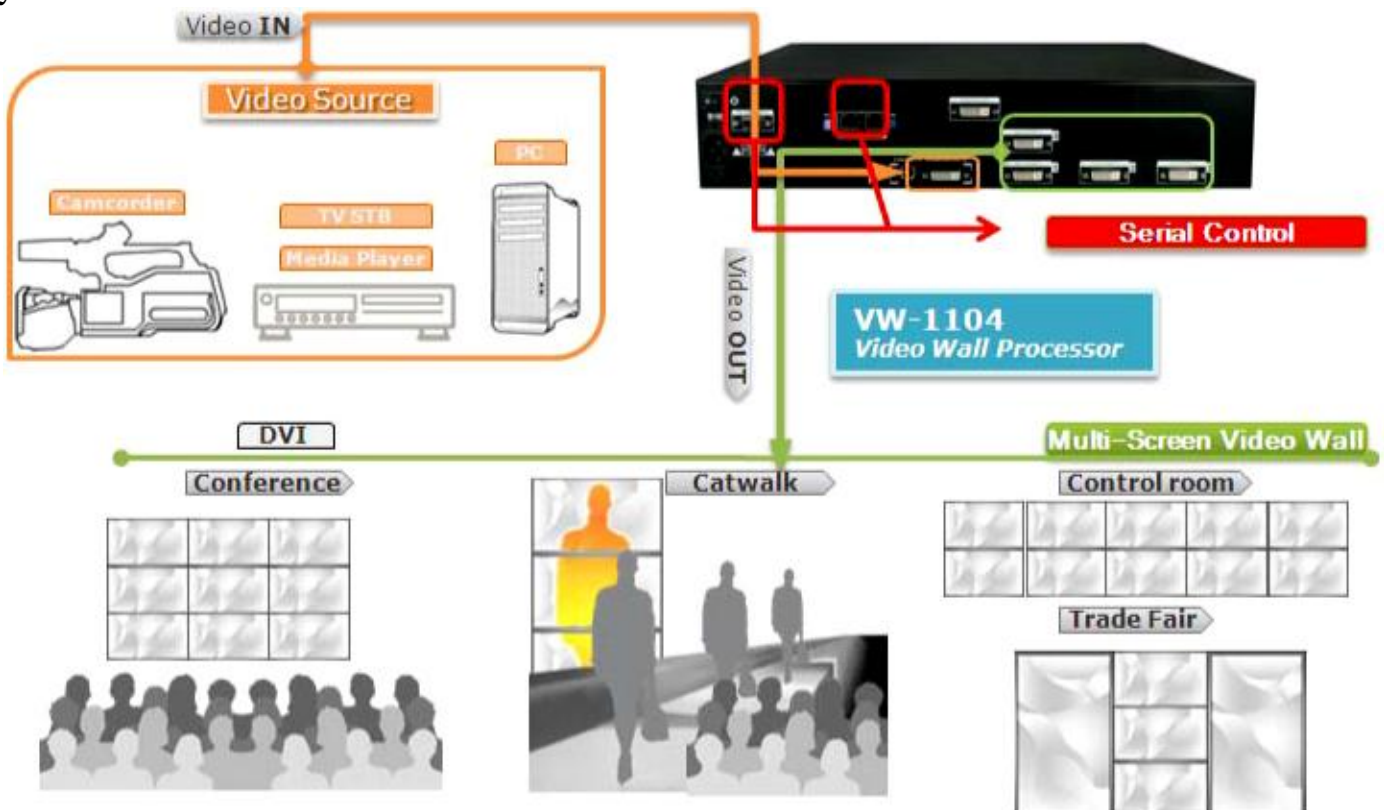## Introduction

The **VW-1104 4-Display Videowall Processor** is a powerful, most cost effective, and fully real time data/video processor for multiple flat panel displays or projectors. Thru DVI transmission, the quality of the outcome videos is guaranteed. The output display is grained up to 255 by 255 squares. Virtually any setups for the display layout can be possible by the provided software. The VW-1104 allows you to manipulate input videos, wherever position and whatever sizes you want for viewing. The embedded scaler converts signals from input sources to match the native resolution of monitors, flat panel displays, projectors as well as user-selectable output settings up to WUXGA (1920x1200). The VW-1104 sends the resulting mixed video thru DVI interface to the connected monitors/projectors based on the display layout. The layout can be readily modified to fit your applications and optimize visual effects. Typical applications include digital signage, and broadcasting / education / surveillance systems etc.

Configuration Diagram

Features

➢ Four DVI outputs from 640x480 to 1920x1200 with a local loop out for monitoring.

➢ Supports HDMI, DVI, VGA, CVBS, Component, and S-Video input.

➢ Advanced video de-interlacer for improving 480i and 576i SD video input.

➢ Each DVI output has an independent controllable display area.

➢ Can be cascaded to obtain more displays.

➢ Image parameters and layouts are automatically saved in flash memory and can be recalled for later use.

➢ Several Image parameters and layouts can be saved in computers and can be loaded for later use.

➢ User-selectable output settings, up to 1920x1200.

➢ Firmware upgradable for support of new features and technology enhancements.

➢ Software control through RS-232/RS-485. Built-in long distance RS-485 control port over Cat-5e.

Specification

Model Name	VW-1104
Role of usage	Video-wall processor
Output displays	4
Video Format Support	HDMI/DVI/VGA/YPbPr/S-Video/CVBS
Dual output support	Yes [DVI & VGA]
Video loop-out	Yes [cascadable for larger displays] or [for monitor]
HDCP compliance	No
Video bandwidth	DVI [Single-link 4.95Gbps] VGA [165MHz]
Video support	Up to 1920x1200@60 / 1600x1200@60
Control	RS-232 / RS-485
Embedded video mixer	NO
Cascadable	Yes
Input TMDS signal	1.2 Volts [peak-to-peak]
ESD protection	Human body model — ±15kV [air-gap discharge] & ±8kV[contact discharge]
PCB stack-up	8-layer board [impedance control — differential 100Ω; single 50Ω]
Input	1x S-Video + 1x DVI + 1x RS-232 + 1x RS-485
Output	4x DVI + 4x VGA / 1x Monitor DVI
DVI connector	DVI-I [29-pin female, digital only]
RS-232 connector	DE-9 [9-pin D-sub female]
RJ-45 connector	WE/SS 8P8C with 2 LED indicators
Size	2U size