



AcePro-CE89-1

4x1 HDMI QuadView Switcher

Quick Installation Guide



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Made in Taiwan

AP4-0099B

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INTRODUCTION

The AcePro-CE89-1 4x1 HDMI QuadView Switcher provides the most flexible and cost effective solution in the market to route high definition video source from any of the four HDMI sources to the remote display at the same time. Besides, this device supports a variety of video layout (5 default modes) and seamless switching on one view mode. This solution is well suited for use in digital signage, conference room presentation systems or other similar settings or applications.

With up to FHD output resolution, users can display the resulted mixed video with improved presentation quality. In the meantime, the unit can be controlled thru the IR remote, software and push button control to provide the most flexible control way to fit into any applications.

FEATURES

- 4 x HDMI inputs and 1 x HDMI output
- Input resolution supports 480i/480p/576i/576p/720p/1080i/1080p
- Output resolution supports 720p@60 & 1080p@60
- Supports HDCP 1.4
- Supports 5 Display Modes: One View Mode, Dual View Mode(left & right), Quad View Mode, Quad View Cycled Mode, Quad View H mode
- Supports seamless switching on one view mode
- Supports audio extraction via stereo audio from selected HDMI input
- Supports audio switch function
- Supports cascading
- Firmware upgradable for support of new features and technology enhancements.
- Perfect as a video converter and a video switcher
- Software control through micro-USB
- Supports IR remote, software and push button control.

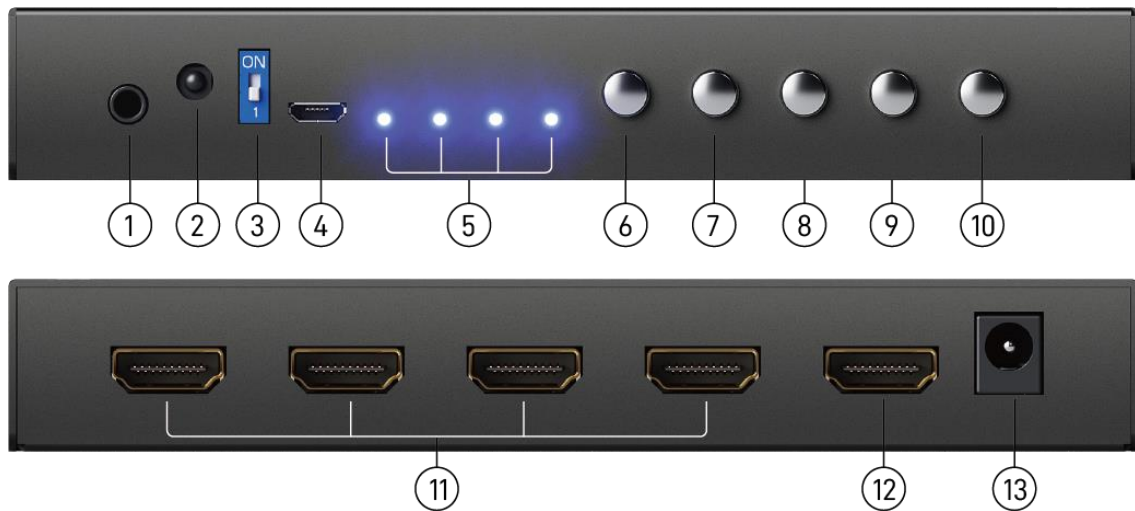
PACKAGE CONTENTS

- 1x 4x1 HDMI QuadView Switcher (AcePro-CE89-1)
- 1x DC 5V 2A
- 1x Installation software CD
- 1x User Manual
- 1x IR Remote control (15 keys)

SPECIFICATIONS

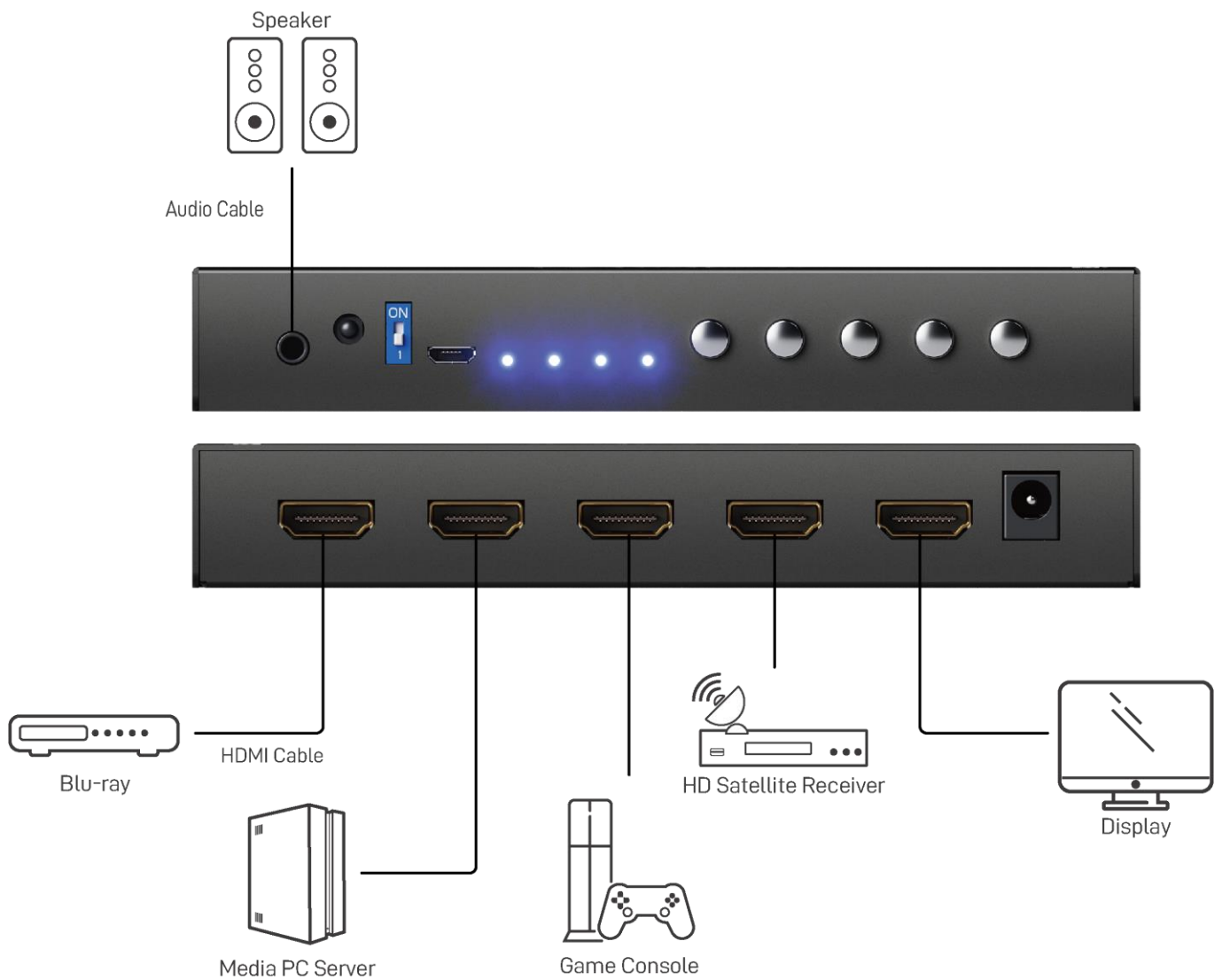
Model Name	AcePro-CE89-1
Technical	
Role of usage	Multi-viewer/ video processor
HDCP compliance	HDCP 1.4
Video bandwidth	HDMI [6.75Gbps]
Output Video Support	720p60/ 1080p60
Input Video Support	480i/480p/576i/576p/720p/1080i/1080p
Video Format Support	DVI/HDMI
Audio support	Bypass
Control	IR remote, software and push button control
Embedded video mixer	Yes
Input TMDS signal	1.2 Volts [peak to peak]
ESD protection	Human body model — $\pm 15\text{kV}$ [air-gap discharge] & $\pm 8\text{kV}$ [contact discharge]
Input	4x DVI/HDMI + 1x micro-USB
Output	1x HDMI + 1x 3.5mm phone jack
HDMI connector	Type A [19-pin female]
USB connector	Micro-USB
Role of usage	Multi-viewer/ video processor
HDCP compliance	HDCP 1.4
Mechanical	
Housing	Metal enclosure
Dimensions	152 x 92 x 23mm [6" x 3.6" x 0.9"]
Weight	390g [13.7 oz]
Fixedness	Wall-mounting case
Power supply	5V 2A DC
Power consumption	5 Watt [max]
Operation temperature	0~40° C [32~104° F]
Storage temperature	-20~60° C [-4~140° F]
Relative humidity	20~90% RH [no condensation]

PANEL DESCRIPTIONS



1. **Stereo output** (3.5mm)
2. **IR SENSOR:** IR sensor for receiving the IR commands from IR remote
3. **Dip Switch:** [ON] Normal mode; [OFF] Firmware Update mode
4. **Micro-USB:** for software control or firmware update
5. **Source Status LED:** Input source detection LED (from the left to the right is input 4, input 3, input 2, input 1)
6. **One View mode:** Switch source in one view (full screen) mode
7. **Audio Switch:** Switch stereo audio out from source 1-4 or mute
8. **Quad View Cycled Mode:** Switch source in quad view cycled mode
9. **Default layout Modes:** Switch 3 default layout modes (Dual View Mode(left & right), Quad View Mode, Quad View H mode)
10. **1080p/ 720p:** Switch output resolution in 1080p/ 720p
11. **SOURCE 1-4:** HDMI inputs (from the left to the right is input 1, input 2, input 3, input 4)
12. **HDMI OUT:** HDMI output
13. **+5V DC:** 5V DC power jack

CONNECTION DIAGRAM









HARDWARE INSTALLATION

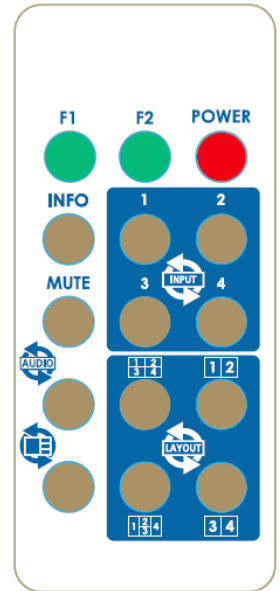
AcePro-CE89-1 as master

1. Connect all sources to DVI/HDMI Inputs on the AcePro-CE89-1.
2. Connect all displays to DVI/HDMI Outputs on the AcePro-CE89-1.
3. Connect the +5V 2A DC power supply to the AcePro-CE89-1.

OPERATION APPROACH

Method A: IR Remote Control

Button	Function	Button	Function
POWER	Power ON/OFF the device		Dual view mode (left & right) 1
F1	Reserved		Quad view H mode
F2	Reserved		Dual view mode (left & right) 2
IN 1	Input 1 in one view mode	INFO	Display layout/audio information of device
IN 2	Input 2 in one view mode	MUTE	Turn on/off output's video and audio
IN 3	Input 3 in one view mode		Switch stereo audio from source 1-4
IN 4	Input 4 in one view mode		Switch source in quad-view mode
	Quad-view mode		



Method B: Software Control through Micro-USB port

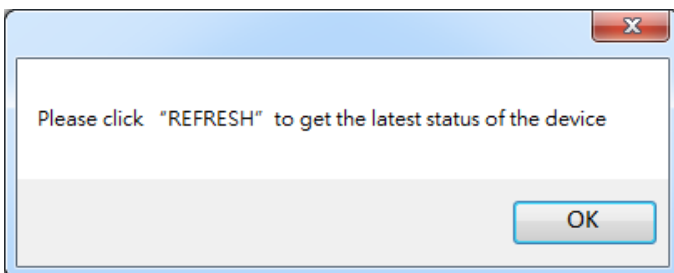
1. System Requirement

- (1) OS Information: MS Win XP/7/8/10
- (2) Baud rates: 115200
- (3) Software size: 3KB
- (4) Minimum RAM requirement: 256 MB

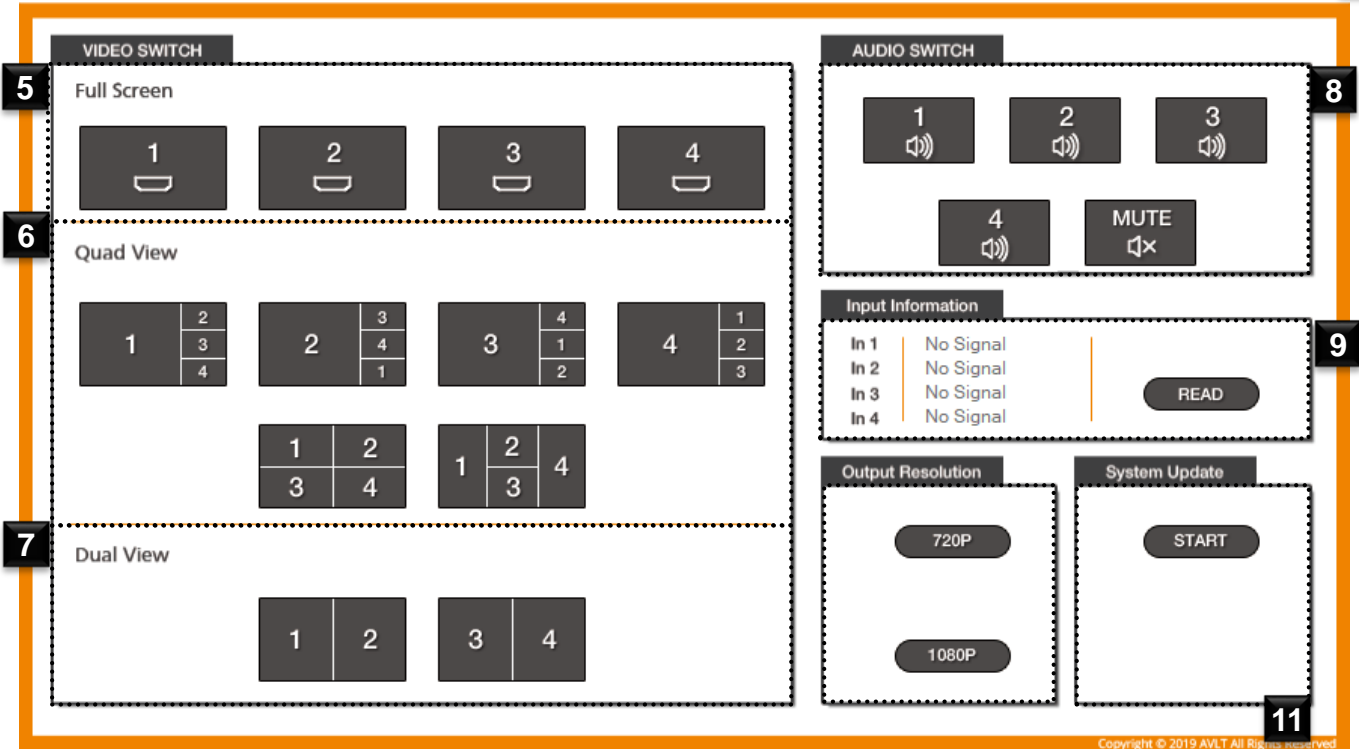
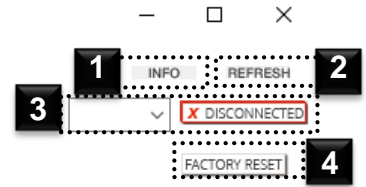
2. Control Interface

Before clicking on the icon of the software, make sure you have secured the connection between your computer COM port and the AcePro-CE89-1.

When clicking on the software control program, the following window will pop-up (under Microsoft Windows 7, please run as administrator.)



After you clicking the OK button, it will enter directly to the control interface (Please click DISCONNECTED button to connect the software),

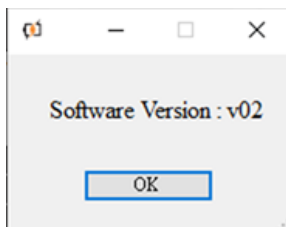


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- 1 Info
- 2 Refresh
- 3 COM Port Selection & Connection Status
- 4 Factory Reset
- 5 Video Switch – Full Screen (One View Mode)
- 6 Video Switch – Quad View Mode
- 7 Video Switch – Dual View Mode
- 8 Audio Switch
- 9 Input Information
- 10 Output Resolution
- 11 System Update

(1) Info

Read the software version



(2) Refresh

This button can get all information of the device and update this software state.

(3) COM Port Selection & Connection Status

Please ensure you have secured the connection between your computer COM port and the device. Select correct COM port and click the connection/disconnect button to connect software.

(4) Factory Reset

The process of default reset will take about 10~15 seconds.

(5) Video Switch – Full Screen (One View Mode)

Select input source in one view mode (full screen).

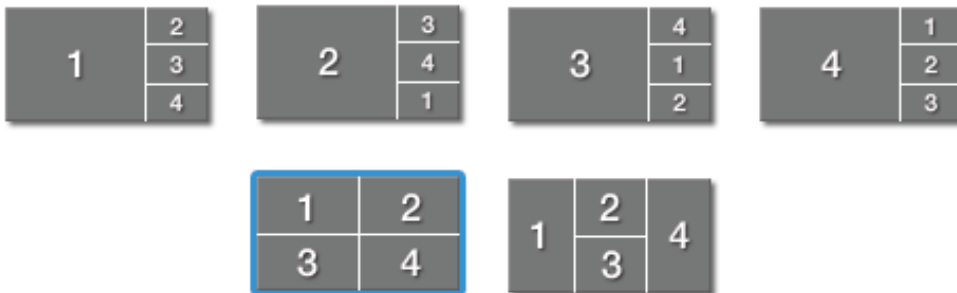
Full Screen



(6) Video Switch – Quad View Mode

We provides 3 default quad view mode for user to select different layout modes.

Quad View



(7) Video Switch – Dual View Mode

It has 2 dual view layout modes for user to select.

Dual View



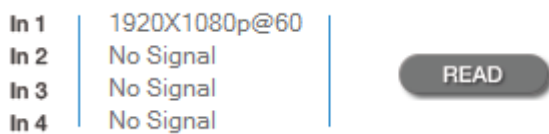
(8) Audio Switch

To set up the audio source of the output (stereo and HDMI).



(9) Input Information

Show the input source resolution. You also can click **READ** button to refresh input resolution information.



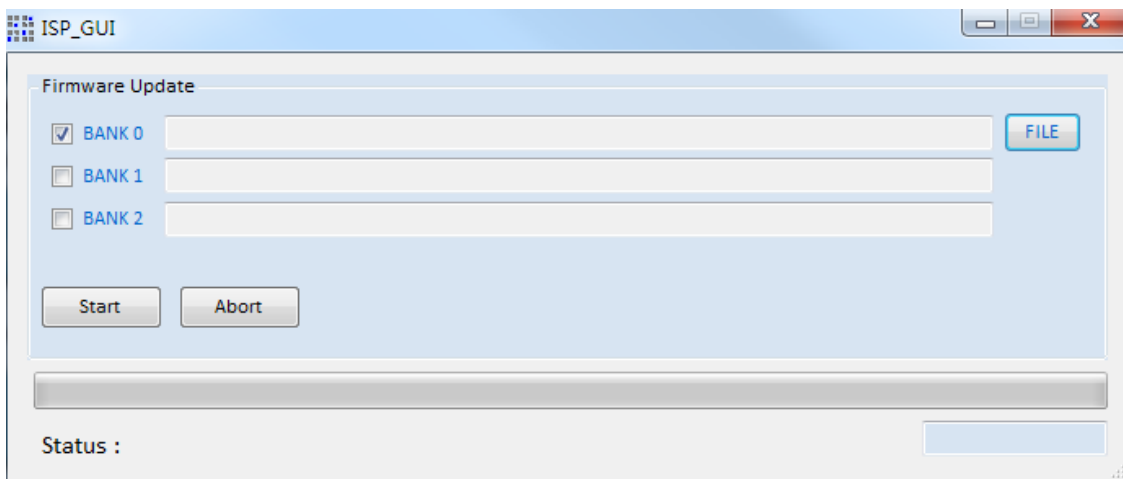
(10) Output Resolution

We provide 2 most common output resolution (1080p & 720p) for user select.

(11) System Update

Before you start to update, please make sure you have secured the connection between your computer COM port and the device.

- Please move the dip switch on F/W mode, and then power cycle the device.
- Click **START** button to do firmware update.
- The firmware update window shows up as below.



- Click **FILE** button to load firmware file.
- Click **Start** button to start firmware update process.
- After updating, please move the dip switch on normal mode and power cycle the device.

WARRANTY

The AceProAV warrants the AcePro-CE89-14x1 HDMI QuadView Switcher free from defects in the material and workmanship for 1 year from the date of purchase from the AceProAV or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The AceProAV, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surge. This warranty is offered by the AceProAV for its BUYER with direct transaction only. This warranty is void if the warranty seal on the metal housing is broken.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the AceProAV. Cables and power adapters are limited to a 30 day warranty and must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The AceProAV assumes no responsibility for any inaccuracies that may be contained in this manual. The AceProAV will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the AcePro-CE89-1 features and specifications is subject to change without further notice.

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