

# PANIO

**CK12 User Manual**

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## Packing

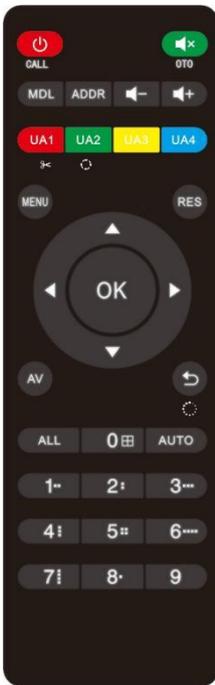
1 x CK12 1 x AC power cord 1 x IR (battery not provided) 1 x Quick guide

## 1. Switching Methods

This device supports quad-view display, allowing input from 4 signal sources (**each set includes HDMI, VGA, and BNC interfaces, with the option to select one signal for output display**).

This device supports 4 signal inputs (**each set includes HDMI, VGA, and BNC, allowing one signal to be selected for output**). You can switch to one selected signal and output it simultaneously to both HDMI and VGA displays, with an additional 2-port USB output. It features synchronized switching of video signals and USB devices (e.g., mouse and keyboard) and supports one keyboard and mouse to control up to 4 computers.

### ● Quick Key Functions for Remote Control and Panel:



**0:** Switch to 4-split screen mode.

**1-4:** Switch the corresponding screen to full screen and simultaneously switch the USB mouse and keyboard to the computer connected to that screen.

**5-9 Keys:** User-Defined Mode: Users can create personalized display modes according to their needs and save these modes to keys 5-9. These saved modes can then be quickly accessed by pressing the corresponding shortcut keys (5-9).

**UA1-UA4:** In 4-split screen mode, switch the mouse and keyboard to the corresponding window.

**AUTO:** When the signal is connected to the VGA input for the first time, the screen may display issues such as offset, color cast, and incomplete display. However, these can be corrected using the AUTO key on the remote control.

**MENU:** Pressing this button will bring up the main menu, providing the following settings, And pressing this button will confirm your selection.

**Up, down, left, and right arrow keys:** Use the up and down arrows to navigate the menu, and the left and right arrows to enter submenus.

Other buttons have no function on this product.

### ● OSD Menu:

Press the MENU button on the remote control or panel to access the OSD main menu.

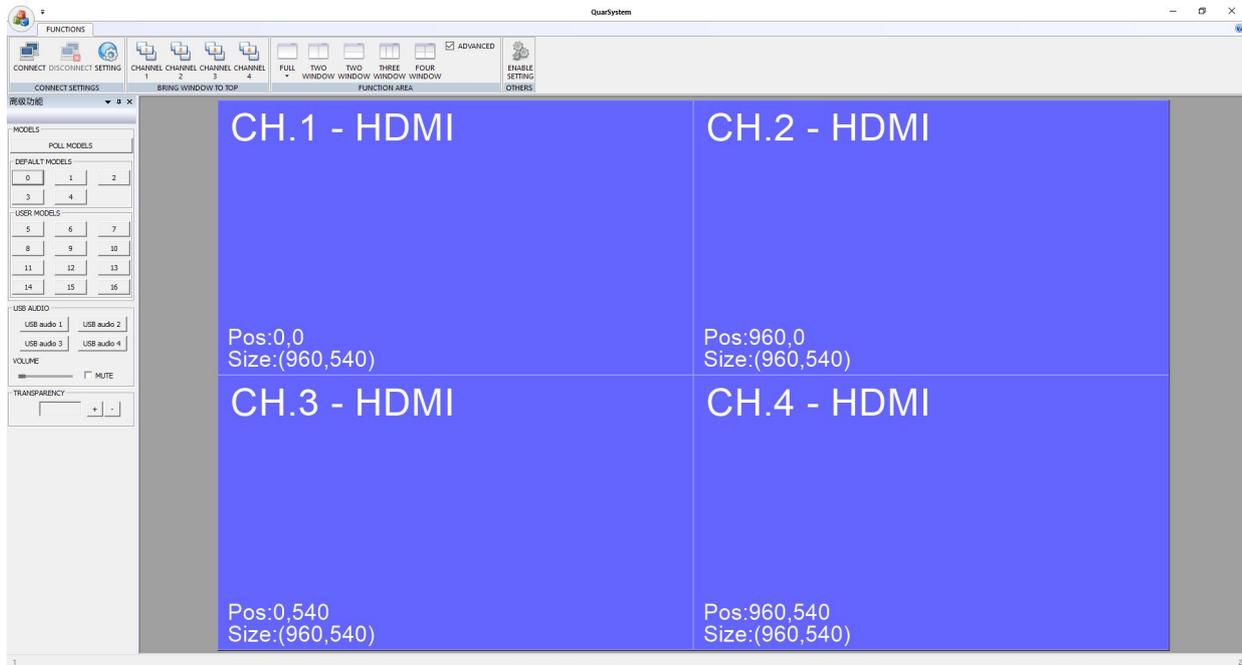
- ◆ **Input Source:** Select the signal source to display (HDMI, VGA, BNC) and adjust the display mode (HDMI or DVI).
- ◆ **Output Resolution:** Set the resolution of the display.
- ◆ **System ID:** This product does not have this feature.
- ◆ **Language:** Switch the system language between English and Chinese.
- ◆ **Factory Reset:** Restore settings to factory defaults.

## 2. Software Settings

Using RS-232 software, this device allows flexible configuration of various screen-splitting modes, including picture-in-picture, split-screen, windowing, overlay, roaming, and 3-small-1-large layouts, catering to diverse application requirements.

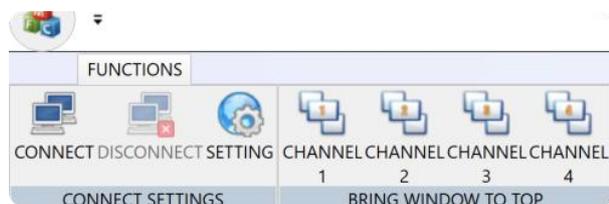
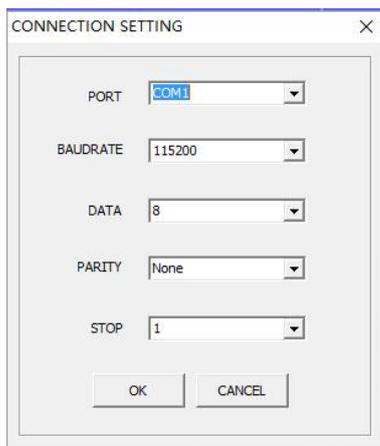
<https://www.epanio.com.tw/download/CK12.rar>

Please download the software and run the QuarSystem executable file.



### ● Communication Settings:

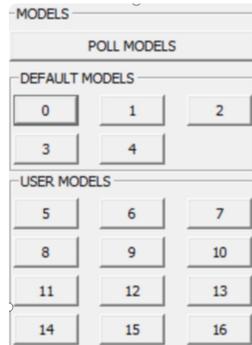
1. Open the software and navigate to the upper left corner to find "Settings."
2. Verify that the port numbers match the control computer's Device Manager port number.
3. After confirmation, click "OK." The following chart shows the settings interface:



- **Communication Connections:**

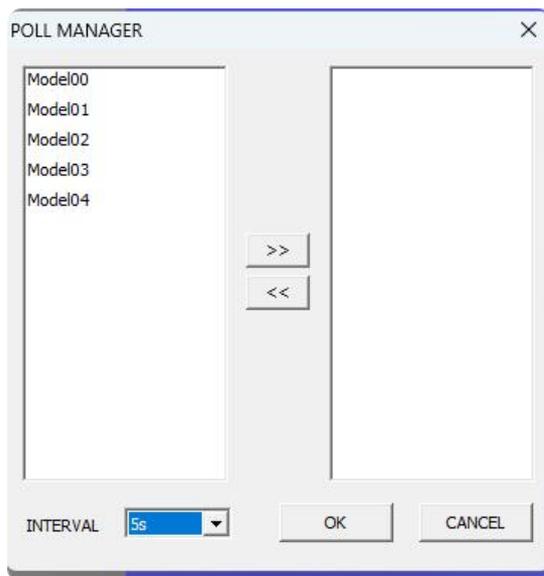
1. Click "Connect" in the top left corner of the control software.
2. The computer will then be able to communicate with the HD video multiplexers and multifunction control.

Check the **ADVANCE** option in the upper right corner to display the control panel on the left side.



- **Polling Models:**

After users have set up several split screen modes, they can use the polling setting to automatically switch between multiple screen display modes at regular intervals. To enter polling, click on "Polling" in the software interface. Then, select the previously saved configuration file and choose the polling interval. Click "Confirm" to enable the split screen mode to enter the polling state. Note that the computer operating software interface must remain open while using the polling function.



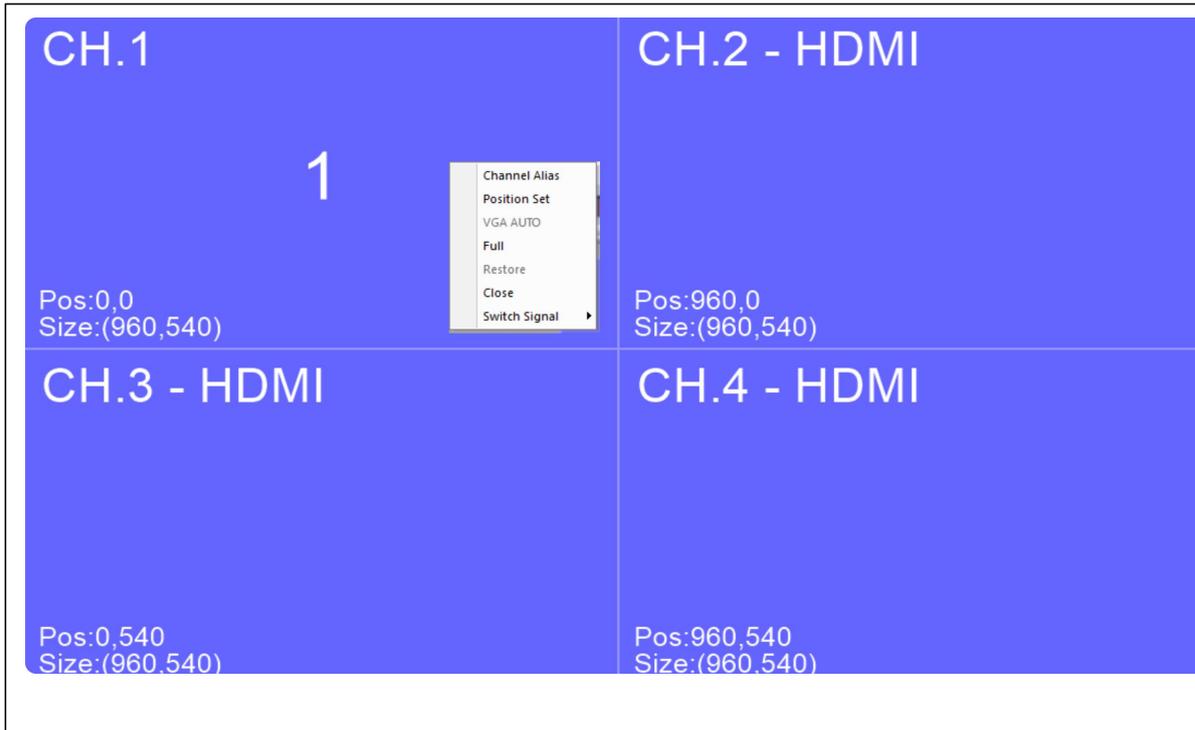
- **Default Models: Default Scene**  
Factory-set configurations are locked and cannot be modified. Similar to panel buttons and remote control functions, pressing 0 activates the standard four-split screen, while pressing 1, 2, 3, or 4 displays windows 1, 2, 3, or 4 in full-screen mode, respectively. USB mouse and keyboard inputs are synchronized for seamless switching.
- **User Models:**  
Scenes can be saved by pressing Ctrl and clicking on numbers 5-16 under "User models". Saved scenes can be quickly recalled using the remote control, panel buttons, or software by selecting the corresponding saved number.
- **Transparency Adjustment:**  
By adjusting the transparency, you can see the underlying screen through the overlaid images.
- **USB Audio:**  
Independent mouse and keyboard control is available in quad-split mode. This product does not have an audio output interface.
- **Bring Windows to Top:**  
This function allows the signal source to appear as the top layer in the overlaid images.
- **Function area:**  
Allows for rapid setup of the following display modes: Single full-screen display, Left/Right or Top/Bottom split-screen display, Triple split-screen display, Quad split-screen display.
- **Enable settings:**  
Enable settings to configure video multiplexer output resolution and select between DVI or HDMI mode.

**Use the mouse to drag and reposition windows or resize them as needed. Alternatively, right-click to access additional options, such as:**

**Closing or creating a new window**

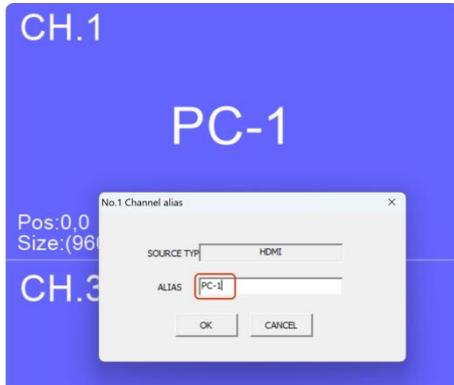
**Signal switching**

**Channel settings (e.g., assigning aliases)**



- **Channel alias:**

Right-click anywhere in the software window to bring up a context menu. Select "Channel Alias" and enter a desired name in the alias field.



- **Windows Position:**

By right-clicking within the software window, a context menu will appear. Selecting "Windows Position" allows you to precisely adjust the window's screen position and size by inputting numerical values.

- **Other Functions:**

Right-clicking the middle area of the software interface brings up a context menu. Selecting "Windows Position" allows for precise window placement and resizing by inputting numerical values. The "full" option toggles between full-screen mode and windowed mode. Selecting "close" terminates the signal source. Within each partitioned window, clicking "switch signal" enables switching between HDMI, VGA, or CVBS interfaces.

- **Adjusting Window Position and Size:**

To resize a window, click and hold the left mouse button on any small window. When a double-arrow icon appears, drag the mouse to adjust the window size.

To reposition a window, click and hold the left mouse button on any small window and drag it to the desired location.

### 3. Central Control Commands

Baud rate: 115200, Data bits: 8, Stop bits: 1, Parity: None

- FF 92 00 00 23 25 FF Full-screen display of the first window
- FF 93 00 00 23 25 FF Full-screen display of the second window
- FF 94 00 00 23 25 FF Full-screen display of the third window
- FF 95 00 00 23 25 FF Full-screen display of the fourth window
- FF 91 00 00 23 25 FF Standard 4-way split screen mode
- FF CC 00 35 45 FF Switch to USB1 input
- FF CD 00 35 45 FF Switch to USB2 input
- FF CE 00 35 45 FF Switch to USB3 input
- FF CF 00 35 45 FF Switch to USB4 input
- FF (B8, B9, BA, BB, BC, BD, BE, BF, C0, C1, C2, C3) 00 00 23 25 FF Saving Scene (5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16).
- FF (96, 97, 98, 99, B0, B1, B2, B3, B4, B5, B6, B7) 00 00 23 25 FF Calling Scene (5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16).

**Resolution:**

- 1920\*1080@60HZ: FF 0C 00 00 00 03 78 79 FF
- 1280\*720@60HZ: FF 0C 00 00 00 02 78 79 FF
- 1280\*1024@60HZ: FF 0C 00 00 00 01 78 79 FF
- 1024\*768@60HZ: FF 0C 00 00 00 00 78 79 FF