



IP Control Box Web Configuration

User Guide

Document Version: V1.0.0

Software Version: V.1.2.0

Contents

Overview.....	2
Operating PF-IPC	2
Scenes.....	5
1) All Devices	5
2) Telnet API command	7
3) Log.....	7
TX/RX Settings	7
1) Device Settings	7
2) Commands.....	8
Controller Settings	8
1) IP Setup	9
2) API and Security Settings	9
3) SSH Service.....	10
4) Load Configuration.....	10
5) User Management	10
6) Software Upgrade	11
7) Commands.....	11
8) Version.....	11

Overview

This guide briefly introduces how to use IP control box AVP-CBS2K to configure common settings, including matrix switching, software upgrade, device configuration through web UI. The following takes IP control box version V8.13.4, web V.1.2.0 and API V3.11.1 for example. If you have other versions, their operation methods are similar.

Operating AVP-CBS2K

The Web UI can be accessed through a modern browser, e.g. Chrome, Safari, Firefox, Opera, IE10+, etc.

AVP-CBS2K presents two network interface ports with two default IP addresses of 169.254.1.1 (LAN1) and 192.168.11.243 (LAN2) respectively, both the subnet masks are 255.255.0.0.

Default user name and password for login are **admin**.

To get access to Web UI:

1. Take LAN1 for example: connect the LAN1 port of the AVP-CBS2K-101 to your PC using an Ethernet cable.
2. Set your PC to the same network as the AVP-CBS2K-101, e.g. 169.254.x.x.
3. Enter the AVP-CBS2K-101 IP address 169.254.1.1 in your browser and press Enter. The following window will pop up.



Change Language: [English](#) [中文](#) [繁體中文](#)

— Welcome to the AVP-CBS2K-101 —

User Name:

Password:

Remember Name Remember Password

4. Enter User name and Password (both the user name and password are “admin”) and click Login to enter the main screen of Web UI.

The Web UI main screen is comprised by Scenes, TX/RX Settings and Controller Settings.

Scenes TX/RX Settings Controller Settings

All Devices vml-vml

Matrix scene1 scene2 scene3

		1	2	3	4
	RX/TX	TX	Test	STB	LETV
	All RXs				
1	RX				
2	RX3				
3	RX4				
4	RX1				
5	RX5				

Telnet API Command

Apply

Log

OK OFF

```

16:23:00 Receive matrix information: PE7005-341822807204 PE7005-341822807010 PE7005-341822807304 PEH105-34182280C057 PEH105-34182280C574
PEH105-34182280C568 PEH105-34182280C57A PEH105-34182280C58B PEH105-34182280C5FD PEH05-341822808009

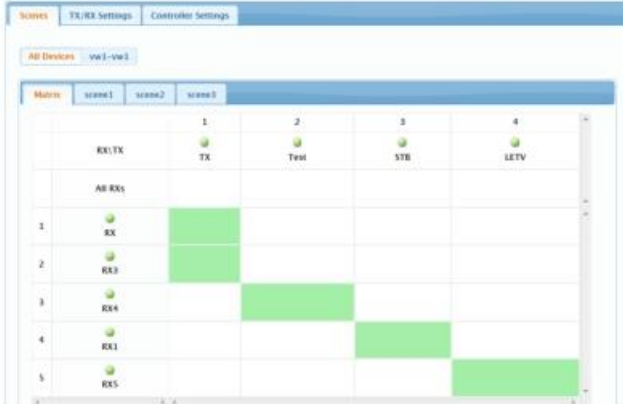
16:23:07 Send matrix get

16:23:07 Receive prescene info [{"id": "matrix", "name": [{"id": "PD7005-341822807010", "type": "rx"}, {"id": "PDH105-34182280C057", "type": "tx"}, {"id": "PDH105-34182280C55F", "type": "tx"}, {"id": "PDH105-34182280C568", "type": "tx"}, {"id": "PDH105-34182280C574", "type": "tx"}, {"id": "PDH105-34182280C57A", "type": "tx"}, {"id": "PDH105-34182280C58B", "type": "tx"}, {"id": "PDH105-34182280C5FD", "type": "tx"}, {"id": "PEH05-341822808009", "type": "tx"}, {"id": "PDH105-34182280C057", "type": "tx"}, {"id": "PDH105-34182280C55F", "type": "tx"}, {"id": "PDH105-34182280C568", "type": "tx"}, {"id": "PDH105-34182280C574", "type": "tx"}, {"id": "PDH105-34182280C57A", "type": "tx"}, {"id": "PDH105-34182280C58B", "type": "tx"}, {"id": "PDH105-34182280C5FD", "type": "tx"}, {"id": "PEH05-341822808009", "type": "tx"}, {"id": "PDH105-34182280C057", "type": "tx"}, {"id": "PDH105-34182280C55F", "type": "tx"}, {"id": "PDH105-34182280C568", "type": "tx"}, {"id": "PDH105-34182280C574", "type": "tx"}, {"id": "PDH105-34182280C57A", "type": "tx"}, {"id": "PDH105-34182280C58B", "type": "tx"}, {"id": "PDH105-34182280C5FD", "type": "tx"}, {"id": "PEH05-341822808009", "type": "tx"}]]

```

Scenes

1) All Devices



UI Elements	Description
Scenes	Click it to show Scenes page where you can perform matrix switching.
All Devices	Click it to display all the TX/RX and home matrix switching page.
vw1-vw1 (or similar tabs followed)	Indicates scenes transferred from PC configurator (PF-IP Console) where you can perform matrix switching, video wall layout switching and video wall source switching.
Matrix	Click it to display the matrix switching page.
Scene 1, 2 and 3	Indicates three preset options saved for future scene call.

Performing Matrix Switching:

- Using Home Matrix Switching Page
 - Enter Matrix tab, click the switch button to link TX to RX.
- Using External Imported Scenes
 1. Click a scene tab next to **All Devices** tab such as **3x2-vw1**.
 2. Choose a view mode such as **Matrix** and **Screen**.



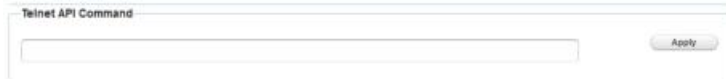
3. Perform matrix switching. If you want to use the previous setting, go to step 4 directly.
 - **Matrix** view mode: click the switch button to link TX to RX.
 - Note:** RX in the left column sometimes refers to a combination of all RX in video wall, which allows you to switch a source for this video wall.
 - **Screen** view mode: drag and drop each TX from the **Transmitters** list to each RX in the screen tiles of the **Receivers** list to link the video to each RX. If you want to remove TX/RX link relationship go to the **Matrix** page under **All Devices** tab to perform related operations.



4. Click **Apply**.
- Using Internal Preset Scenes
 1. Click a preset scene tab next to **Matrix** tab such as **scene1**.

2. Click the switch button to link the video to each RX. If you want to use the previous setting, go to step 3 directly.
3. Click **Apply**.

2) Telnet API command

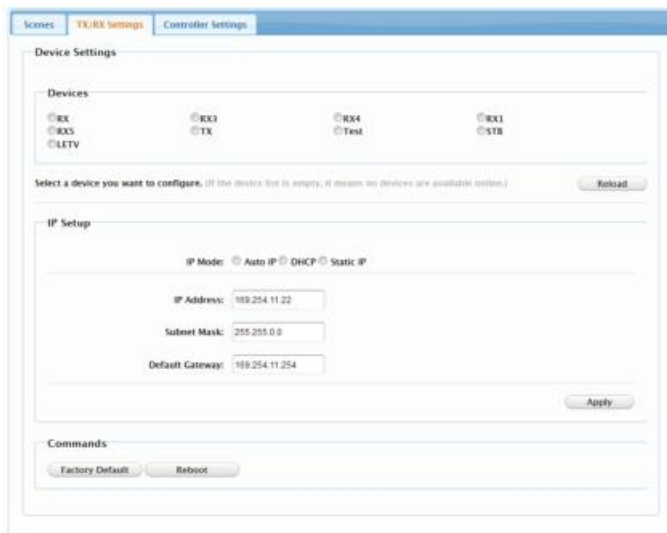


In this section, you can enter the API command to control and configure devices through Telnet.

3) Log

In this section, you can show or hide the Web UI setting change records. When ON is selected, the log section will display on the page.

TX/RX Settings



1) Device Settings

In this section, you could perform IP settings for specific device, such as IP mode, IP address, Subnet mask and Default gateway.

2) Commands

- Factory Default: click to reset AVP-CBS2K-101 to factory default.
- Reboot: click to reboot the AVP-CBS2K-101.

Controller Settings

The screenshot displays the 'Controller Settings' web interface. At the top, there are tabs for 'Scenes', 'TU/KA Settings', and 'Controller Settings'. The main content is divided into several sections:

- IP Setup:** This section is split into two columns. The left column is for 'IP 1 (AV) (TX and RX communication)' with fields for IP Address (100.254.1.1), Subnet Mask (255.255.0.0), and Default Gateway (100.254.1.254). The right column is for 'IP 2 (IC) (Telnet client and browser communication)' with fields for IP Address (192.168.11.240), Subnet Mask (255.255.0.0), and Default Gateway (0.0.0.0). Below these is an 'Active Gateway' section with radio buttons for IP 1 (AV) and IP 2 (IC). A warning states: 'Attention: The deactivated gateway IP will change to 0.0.0.0 automatically.' Another warning at the bottom of this section says: 'Attention: After pressing "Apply", this IP control box will automatically reboot for the settings to take effect.' An 'Apply' button is present.
- API & Security Settings:** This section contains two sub-sections: 'Telnet Alias Programming' and 'RS-232 Alias Programming'. Each has radio buttons for 'enable' and 'disable', and an 'Apply' button. Below these is a 'Telnet' section with a 'Password' field, 'Delete', and 'Save' buttons. A warning states: 'Attention: Password must be 1-30 characters, (alphanumeric) only.' Below that is an 'SSH Service' section with radio buttons for 'enable' and 'disable', and an 'Apply' button.
- Load Configuration:** This section has a 'Config file' field and a 'Browse...' button. A warning states: 'Attention: This action will initialize the system, the previous configuration will be completely removed.' An 'Apply' button is at the bottom right.

1) IP Setup

AVP-CBS2K-101 presents two network interface ports with two default IP addresses of 169.254.1.1 [LAN1 (AV)] and 192.168.11.243 [LAN2 (C)] respectively, both the subnet masks are 255.255.0.0.

- Active Gateway: Activate gateway of either LAN1 (AV) or LAN2 (C). The other deactivated gateway address will be set to 0.0.0.0 automatically.

Note: Once you press “Apply”, the IP control box will reboot automatically for the settings to take effect.

2) API and Security Settings

- Telnet Alias Programming: when “enable” is selected, device name will be displayed as the alias name as configured in Telnet Programming.

- RS-232 Alias Programming: when “enable” is selected, device name will be displayed as the alias name as configured in RS232 Programming.
- Telnet password: configure the password when login the Telnet client. The password must be 1 to 10 characters in length (alphanumeric only). By default, login password is null.

3) SSH Service

Enable/Disable: To enable or disable SSH service.

4) Load Configuration

This section is used to upload a configuration file to PF-IPC. Click “Browse” to browse for the local file and click “apply” to upload.

5) User Management

Web configuration page offers administrator and common user accounts. The unique administrator **admin** can perform all tasks in the web configuration page. You can assign a common user role that limits which tasks the user can perform, for example, by allowing them only to perform matrix switching and to control video wall.

- Changing Password for Administrator User:
 1. Log in to the web configuration page.
 2. Click **Controller Settings** tab.
 3. Go to **User Management** area.
 4. For **Administrator User**, enter a new password.
 5. Click **Save**.
- Changing User Name and Password for Common User:
 1. Log in to the web configuration page.

2. Click **Controller Settings** tab.
3. Go to **User Management** area.
4. For **Common User List**, enter a new username and a new password.
5. Click **Save**.

6) Software Upgrade

This section is used to upgrade PF-IPC software to the latest version.

To upgrade software, perform the following:

- 1) Click **Browse** for **Web Module** to choose a local upgrade file such as **web_v8.4.2.bin**.
- 2) Click **Browse** for **Adapter Module** to choose a local upgrade file such as **gbcmd_v8.4.5**.
- 3) Click **Upgrade** to follow the on-screen instructions to complete the upgrade process.

Note: The AVP-CBS2K-101 will reboot after the upgrade is finished.

7) Commands

- Factory Default: click to reset AVP-CBS2K-101 to factory default.
- Reboot: click to reboot the AVP-CBS2K-101.
- Shutdown: click to turn off the AVP-CBS2K-101.

8) Version

This section is used to obtain information of the current firmware and API in use.

