

SALSON[®]

User Manual

HDM-IPBX-003C

Smart Controller for HDMI over IP
series



rev: 170517
Made in Taiwan



Safety and Notice

The **HDM-IPBX-003C Smart Controller for HDMI over IP series** has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the **HDM-IPBX-003C** should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

TABLE OF CONTENTS

● INTRODUCTION	1
● FEATURES	1
● PACKAGE CONTENTS	1
● SPECIFICATIONS	2
● PANEL DESCRIPTIONS	2
● CONNECTION WARRANTY	3
● OPERATION APPROACH	4
● WARRANTY	11

INTRODUCTION

The **HDM-IPBX-003C Smart Controller for HDMI over IP series** provides central management and real time monitoring over the IP based HDM-IP-004C transmitter and receivers. With high expandability, a single HDM-IPBX-003C can serve up to 1024 transmitters and unlimited receivers at once. An intuitive web-based GUI enables users to drag and drop any source to any display, create presets profile, and schedule the operation for video and power. Plus, HDM-IPBX-003C provides continuous system monitoring, self-recovery along with real-time event notifications and alerts. Via cooperate network connection, users can remotely access and activate the system from mobile devices. Moreover, HDM-IPBX-003C provides a QR code, allowing fast access into system for smart phone or tablet.

FEATURES

- Control center of the IP-based Transmitter and Receiver (HDM-IP-004C)
- Monitor all devices in one central system
- Cost effective solution for IoT
- Intuitive and powerful user interface
- Include Web interface and mobile support
- Easy installation with auto-detection of transmitter and receiver units in the network.
- Drag-and-drop easy matrix switching
- Schedule time for audio/video mapping, cycle-play and mute/resume
- Watch-dog with self-recovery
- Assign the video sources for each display with account/password submit
- QR code for user to quickly access into the control center with smart phone or tablet.

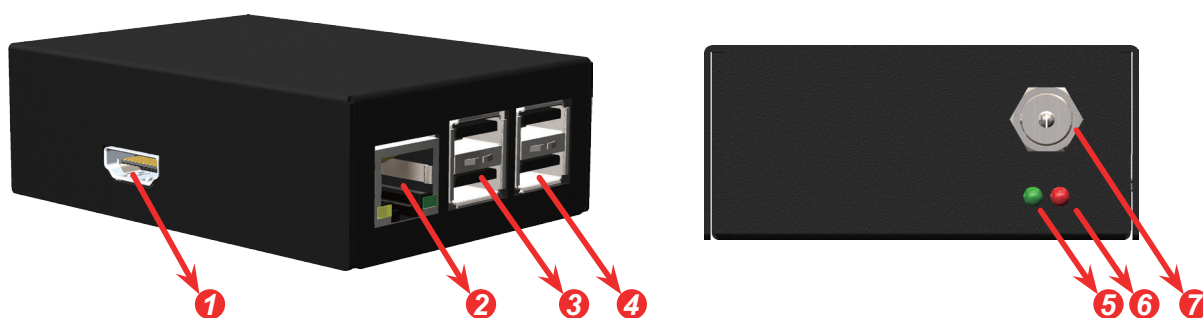
PACKAGE CONTENTS

- 1x HDM-IPBX-003C
- 1x DC 5V power supply
- 1x Rack-mounting ear sets
- 1x User Manual

SPECIFICATIONS

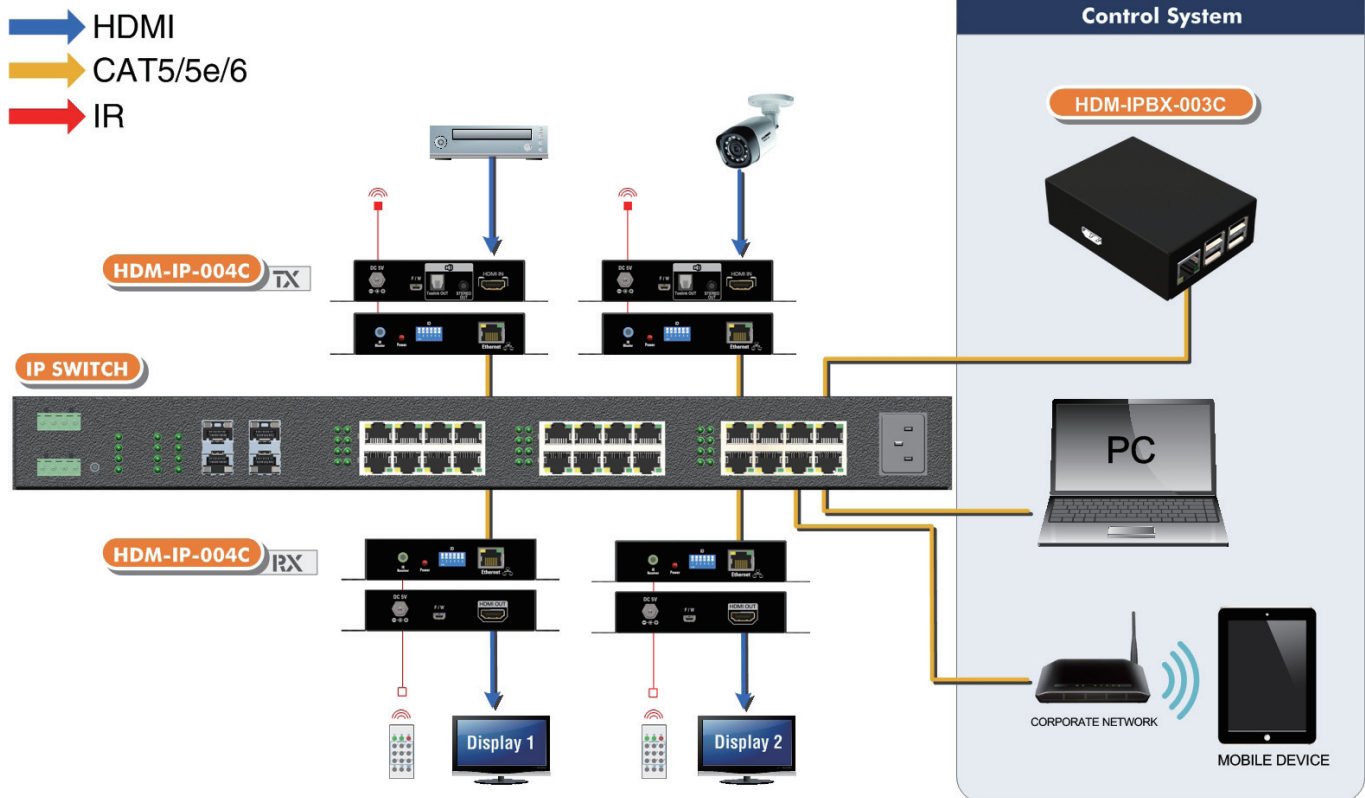
Model Name		HDM-IPBX-003C
Technical		
Role of usage		Smart Controller
Input		1x RJ-45
Output		1x HDMI
HDMI connector		Type A [19-pin female]
RJ-45 connector		WE/SS 8P8C
Mechanical		
Housing		Metal enclosure
Dimensions [L x W x H]	Model	90 x 65 x 29mm [3.5" x 2.5" x 1.1"]
	Package	198 x 137 x 74mm [7.8" x 5.4" x 2.9"]
	Carton	420 x 400 x 300mm [1'4"x 1'3" x 11.8"]
Weight	Model	203g [7.2oz]
	Package	495g [17.5oz]
Fixedness		Rack-mount with ears
Power supply		5V DC
Power consumption		2A
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



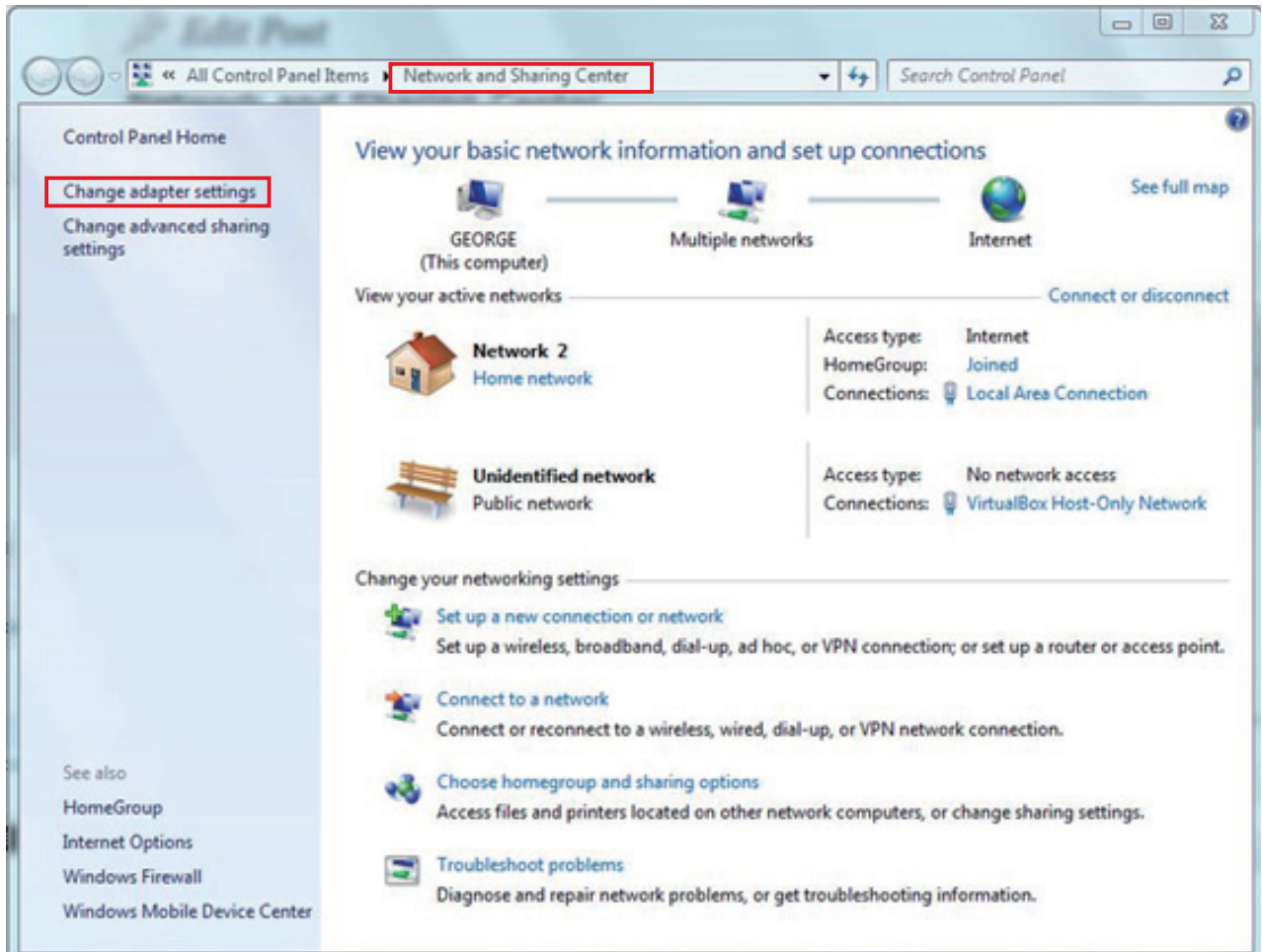
- 1 Output:** HDMI output, it display the information of controller
- 2 RJ-45:** Ethernet control port
- 3 USB:** Reserved
- 4 Signal indicator LED**
- 5 Power indicator LED**
- 6 +5V DC:** +5V DC power jack

CONNECTION WARRANTY

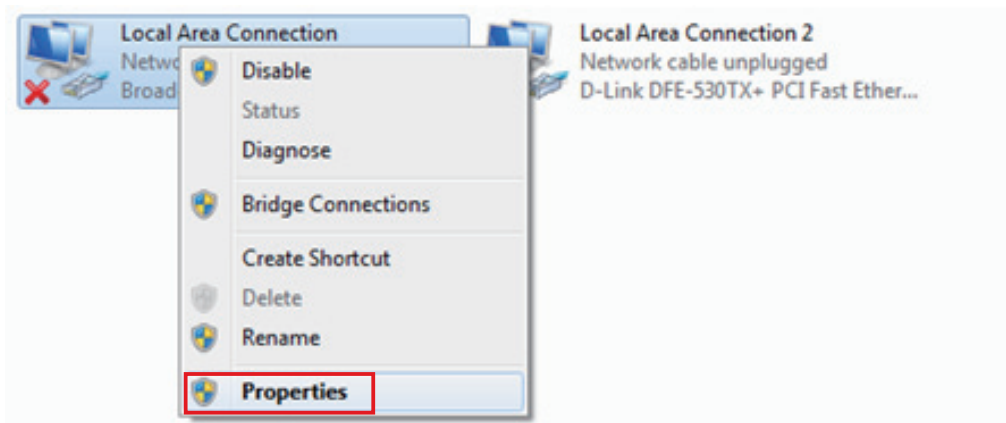


Installation Setup

- 1. Connect a Laptop/PC, HDM-IPBX-003C into the IP Switch/ Router/ Hub
 - * Ensure your IP Switch enables DHCP Server
- 2. Open the Network and Sharing Center and enter the Change adapter settings page

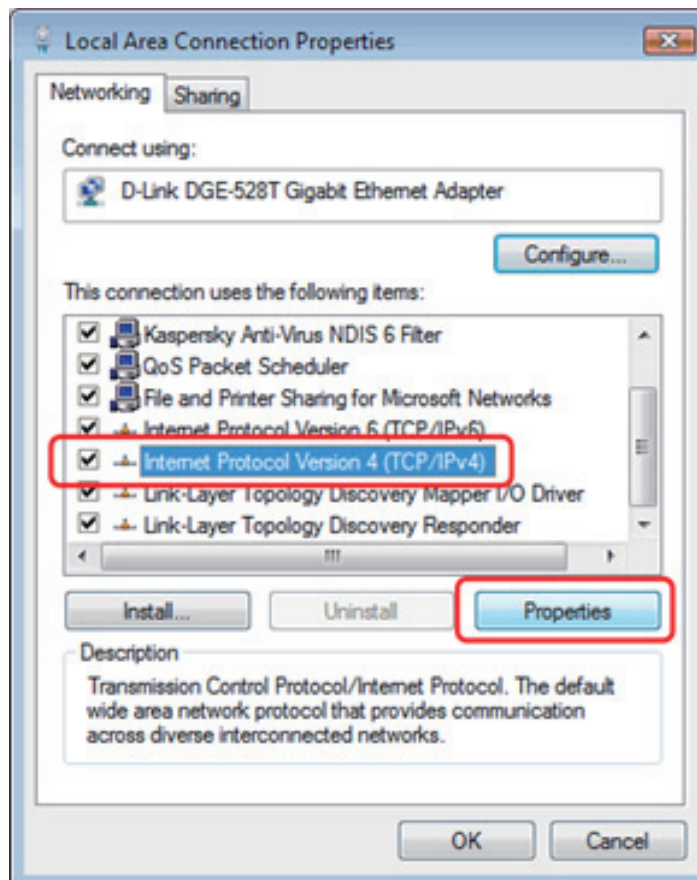


- 3. Select the Local Area Connection item and click the right button to enter the Properties page.

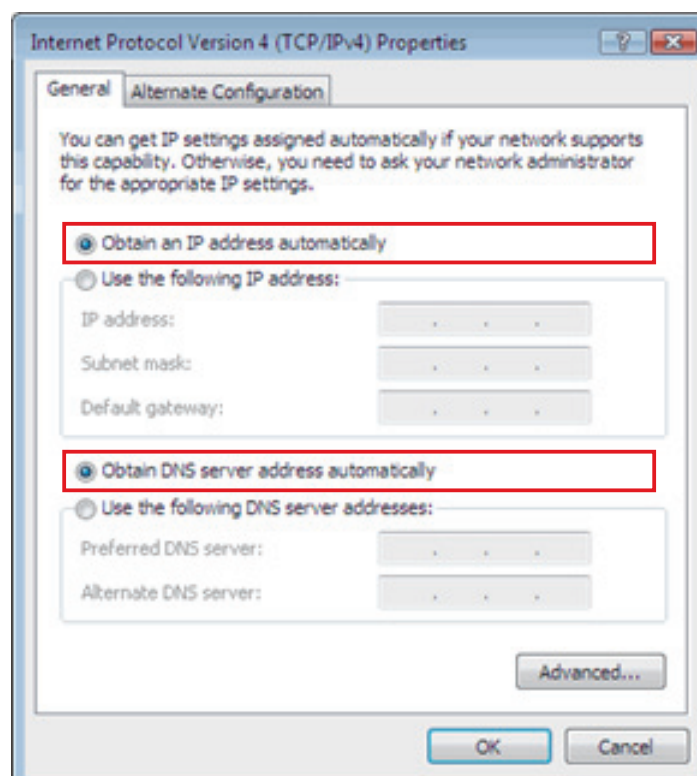


Installation Setup

- Enter the Properties of Internet Protocol Version 4 (TCP/IP)



- IP Setting as following:



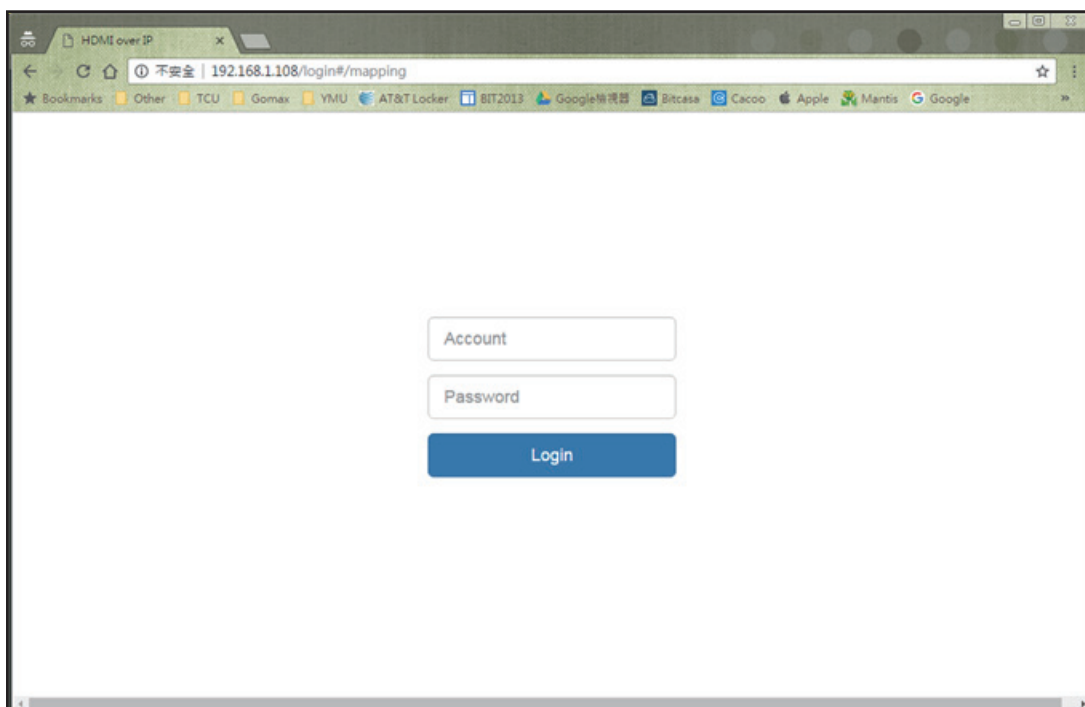
- View HDM-IPBX-003C information
Connect HDM-IPBX-003C HDMI output to display.
The display will show information, as below image.

- * The default IP is DHCP (obtain an IP address automatically)
- * The QR code allows quick access into Web

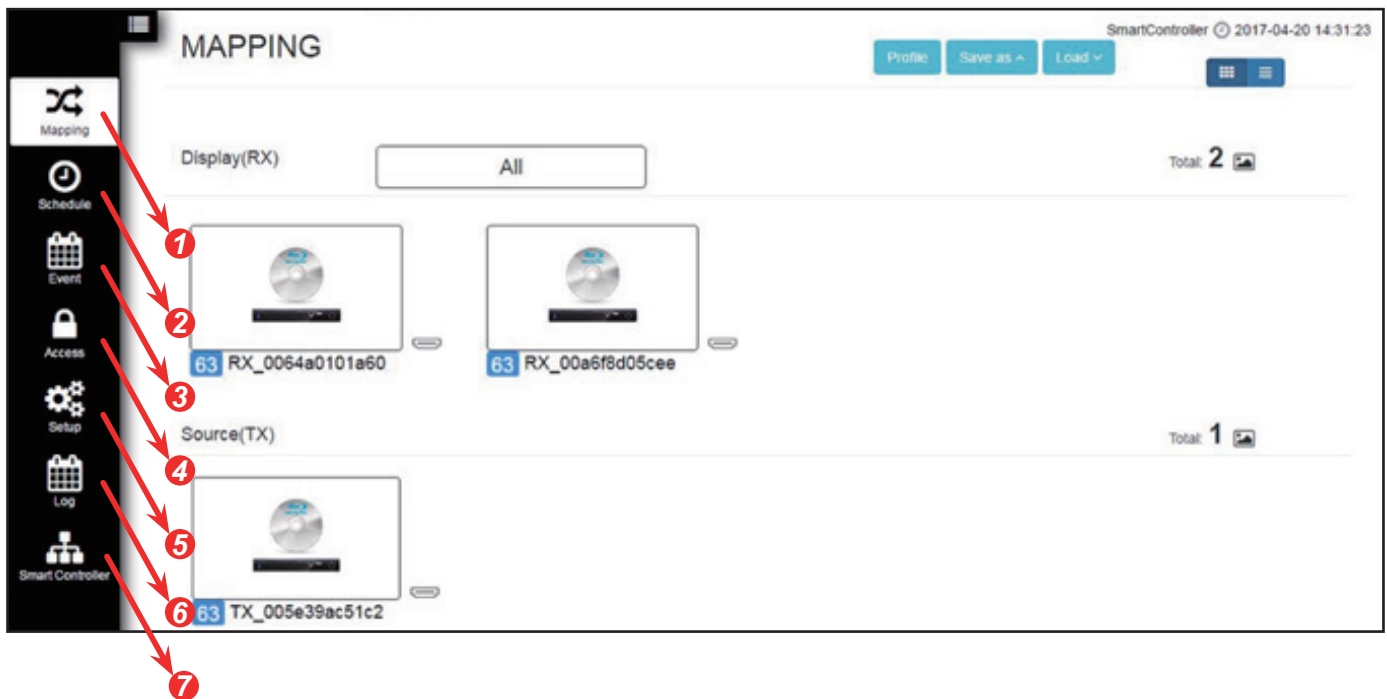


User Interface pages

- Login
Open the browser and enter the IP address of HDM-IPBX-003C.
 - Account: admin
 - Password: admin



● Connect the HDMI over IP extenders to the Router/Ethernet Hub



1 Mapping | 2 Schedule | 3 Event | 4 Access | 5 Setup | 6 Log | 7 Smart Controller

1. Mapping

In this Page, you can see runtime status of all TX/RX device in controller. The way to do input/output mapping is to drag TX icon to RX icon. It also provide 10 profile spaces to save the frequent-used scenarios into the device. Clicking the profile button to preview the scenarios which you are saved.



2. Schedule

User can schedule the operation for video and power. Just click the button to setup the time, type and action.

The screenshot shows the 'SCHEDULE' interface. On the left is a sidebar with icons for Mapping, Schedule (selected), Event, Access, Setup, Log, and Smart Controller. The main area has a table with columns: No., Type, Name, Duration, Days, Time, and Action. Below the table is an 'Apply' button. A 'Schedule Config' modal is open, showing fields for Type (RX), Name (RX_0064a0101a60), Duration (2017-04-24 - 2017-04-24), Date (Mon Tue Wed Thu Fri Sat Sun), Time (15 : 30), and Action (Mute). At the bottom of the modal are 'Add' and 'Cancel' buttons.

No.	Type	Name	Duration	Days	Time	Action
-----	------	------	----------	------	------	--------

Apply

Schedule Config

Type: RX

Name: RX_0064a0101a60

Duration: 2017-04-24 - 2017-04-24

Date: Mon Tue Wed Thu Fri Sat Sun

Time: 15 : 30

Action: Mute

Add Cancel

3. Event

User can set up the condition of trigger point in advance.

Event happens, then HDM-IPBX-003C will take Action for self-recovery, real-time notification and alert.

The screenshot shows the 'EVENT' interface. On the left is a sidebar with icons for Mapping, Schedule, Event (selected), Access, Setup, Log, and Smart Controller. The main area has a table with columns: No., Type, Name, Event, and Actions. Below the table is an 'Apply' button. A 'E-mail/SMS Settings' button is in the top right. The table contains one row with No. 1, Type IPSwitch, Name IP Switch, Event IP Switch Reload, and Actions including Alarm LED (checked), Email to Admin (unchecked), and SMS to Admin (unchecked).

No.	Type	Name	Event	Actions
1	IPSwitch	IP Switch	IP Switch Reload	<input checked="" type="checkbox"/> Alarm LED <input type="checkbox"/> Email to Admin <input type="checkbox"/> SMS to Admin

Apply

E-mail/SMS Settings

4. Access

Allow admin to assign video sources for each display, with Account / Password submit.

The screenshot shows the 'ACCESS' configuration page. On the left is a sidebar with icons for Mapping, Schedule, Event, Access (highlighted), Setup, Log, and Smart Controller. The main area has a title 'ACCESS' and a timestamp '2017-04-24 18:30:05'. Below the title is a table with columns: Type, Name, Account, Password, and Source. There are two rows of data. Below the table is a green 'Apply' button.

Type	Name	Account	Password	Source
RX	RX_0064a0101a60	77j7ao	wb3xbq	Unlimited
RX	RX_00a6f8d05cee	poh97l	q3goil	Unlimited

5. Setup

After connecting the HDMI over IP transmitter and receiver units to the Router/Ethernet Hub, the HDM-IPBX-003C will automatically add the device into the control system. More TX and RX information will display here, allowing advanced setting (A/V setting/Reboot/HDMI Re-connect/Blink LED).

The screenshot shows the 'SETUP' configuration page. On the left is a sidebar with icons for Mapping, Schedule, Event, Access, Setup (highlighted), Log, and Smart Controller. The main area has a title 'SETUP' and a timestamp 'SmartController 2017-04-25 11:38:02'. Below the title is a tabbed interface with 'Devices' and 'MISC' tabs. Under 'Devices', there is a section 'Devices in Managed' with a table. Below the table is a 'New' button. A modal window is open over the table, showing configuration options for a device.

Group	Type	Name	Device IP	Group IP	MAC Address	Status
63	TX	TX_005e39ac51c2	169.254.81.194	239.255.42.207	00:5e:39:ac:51:c2	04 hr, 20 min, 28 sec
63	RX	RX_0064a0101a60	169.254.26.96	239.255.42.207	00:64:a0:10:1a:60	04 hr, 20 min, 28 sec
63	RX	RX_00a6f8d05cee	169.254.92.238	239.255.42.207	00:a6:f8:d0:5c:ee	04 hr, 20 min, 28 sec

Information

Name: RX_00a6f8d05cee Group ID: 63 [Apply]

Network

DHCP: ☒ On [Apply]

A/V Settings

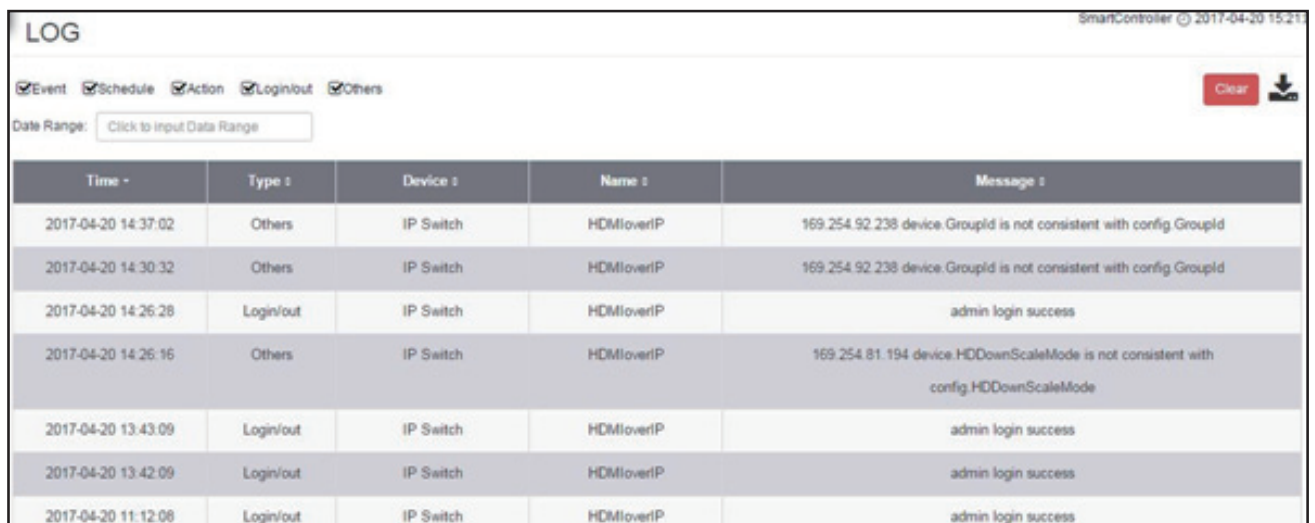
OSD: Auto Mute: Off [Apply]

Maintenance

[Reboot] [HDMI Re-connect] [Blink LED]

6. Log

This page contain a text log of your system operation history.



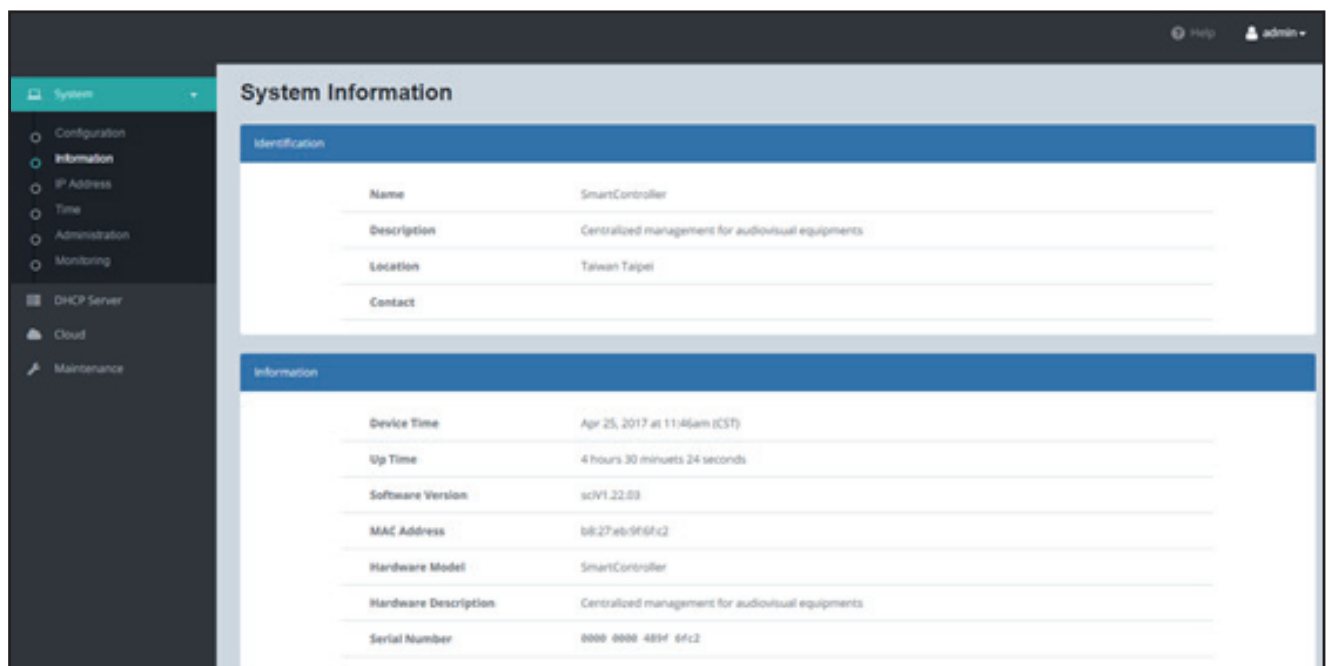
Time	Type	Device	Name	Message
2017-04-20 14:37:02	Others	IP Switch	HDMIoverIP	169.254.92.238 device.GroupId is not consistent with config.GroupId
2017-04-20 14:30:32	Others	IP Switch	HDMIoverIP	169.254.92.238 device.GroupId is not consistent with config.GroupId
2017-04-20 14:26:28	Login/out	IP Switch	HDMIoverIP	admin login success
2017-04-20 14:26:16	Others	IP Switch	HDMIoverIP	169.254.81.194 device.HDDownScaleMode is not consistent with config.HDDownScaleMode
2017-04-20 13:43:09	Login/out	IP Switch	HDMIoverIP	admin login success
2017-04-20 13:42:09	Login/out	IP Switch	HDMIoverIP	admin login success
2017-04-20 11:12:08	Login/out	IP Switch	HDMIoverIP	admin login success

7. Smart Controller

Enter the Smart Controller page to do advance setting.

- Account: admin
- Password: admin

The home page of Smart Controller shows the system information.



System Information	
Identification	
Name	SmartController
Description	Centralized management for audiovisual equipments
Location	Taiwan Taipei
Contact	
Information	
Device Time	Apr 25, 2017 at 11:46am (CST)
Up Time	4 hours 30 minutes 24 seconds
Software Version	scV1.22.03
MAC Address	b8-27-bb-9f-6f-c2
Hardware Model	SmartController
Hardware Description	Centralized management for audiovisual equipments
Serial Number	0000 0000 48H 6Fc2

WARRANTY

The SELLER warrants the **HDM-IPBX-003C Smart Controller for HDMI over IP series** free from defects in the material and workmanship for 1 year from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The SELLER, 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 SELLER 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 SELLER. 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 SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER 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 HDM-IPBX-003C features and specifications is subject to change without further notice.

SaTson®