

**PBI** Pro Broadband Inc.

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# Digital CATV Head End Modular Bank

# DMM-1000

User Manual

(ver. A)



<http://www.pbi-china.com>

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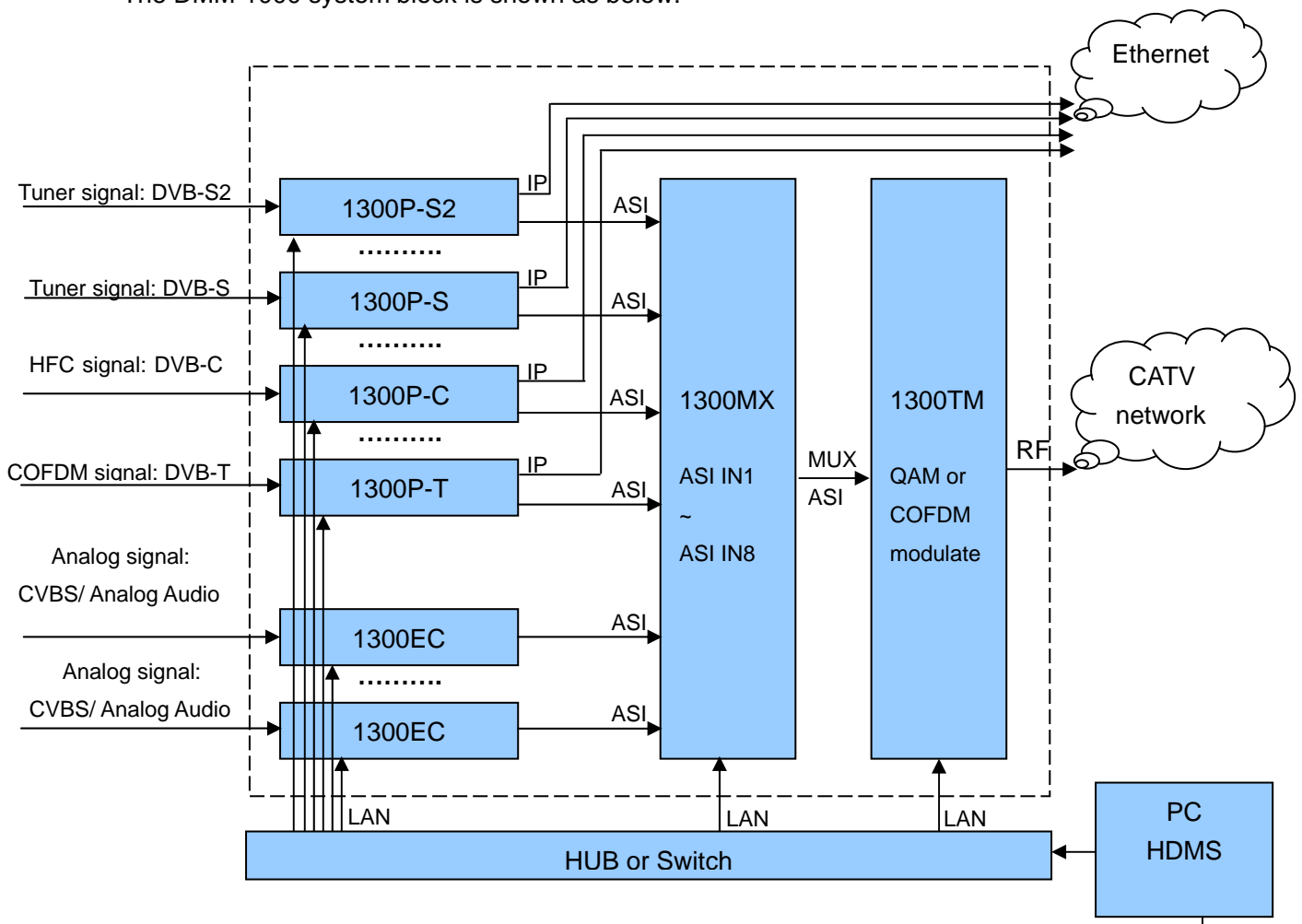
# DMM-1000 Digital CATV Head End Modular Bank

## 1. Summary

DMM-1000 is a digital CATV head end modular bank, which combines modularized professional IRD, MPEG-2 encoder, Re-Multiplexer and QAM/COFDM Modulator into a 4Ux19" chassis. User can use it to build up a mini digital headend system easily. It is controlled by HDMS (a remote software developed by PBI) via LAN. The flexibility and easy-to-use of DMM-1000 present a highly integrated and stable digital CATV system solution.

Model No.	Description
DMM-1000MF	Main Frame
DMM-1300P	Professional IRD module
DMM-1300EC	MPEG-2 encoder module
DMM-1300MX	Re-Multiplexer module
DMM-1300TM	QAM Modulator module
DMM-1300CM	COFDM Modulator module

The DMM-1000 system block is shown as below:



**Features:**

- ◎ 4U chassis, flexibility and easy-to-use.
- ◎ Up to 9 slots for max. 9 modules
- ◎ Support hot backup for power supply and hot-swappable for modules.
- ◎ LAN control by HDMS software which based on SNMP protocol.
- ◎ For DMM-1300P module, it complies with MPEG-2 (MP@ ML) and DVB-S2/S/-C/-T standard. It supports Unicast and 7-way Multicast IP output.
- ◎ Support fan temperature control which can prolong its lifecycle.

## 2. Basic Operation on HDMS

### 2.1 Minimum requirements for PC

OS: Windows2000 or above

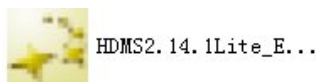
CPU: PIII / 800 MHz or above

Memory: 256M DDR or above

Hard disk space: more than 100M.

### 2.2 Installation

Login Windows platform. Double click “HDMS\*\*\*.exe”( “\*\*\*”means version number of HDMS, for example, “2.14.1Lite”) and follow install wizard to install the HDMS software.




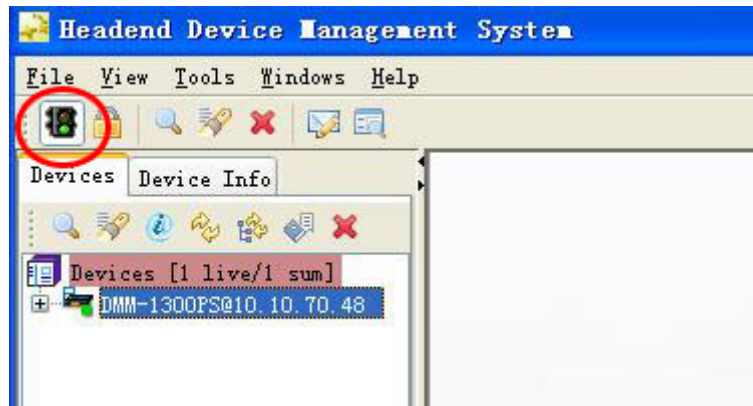
After installation, there will be an icon appears on your PC desktop, double-click it to login HDMS. Both default user name and password are “hdms”.



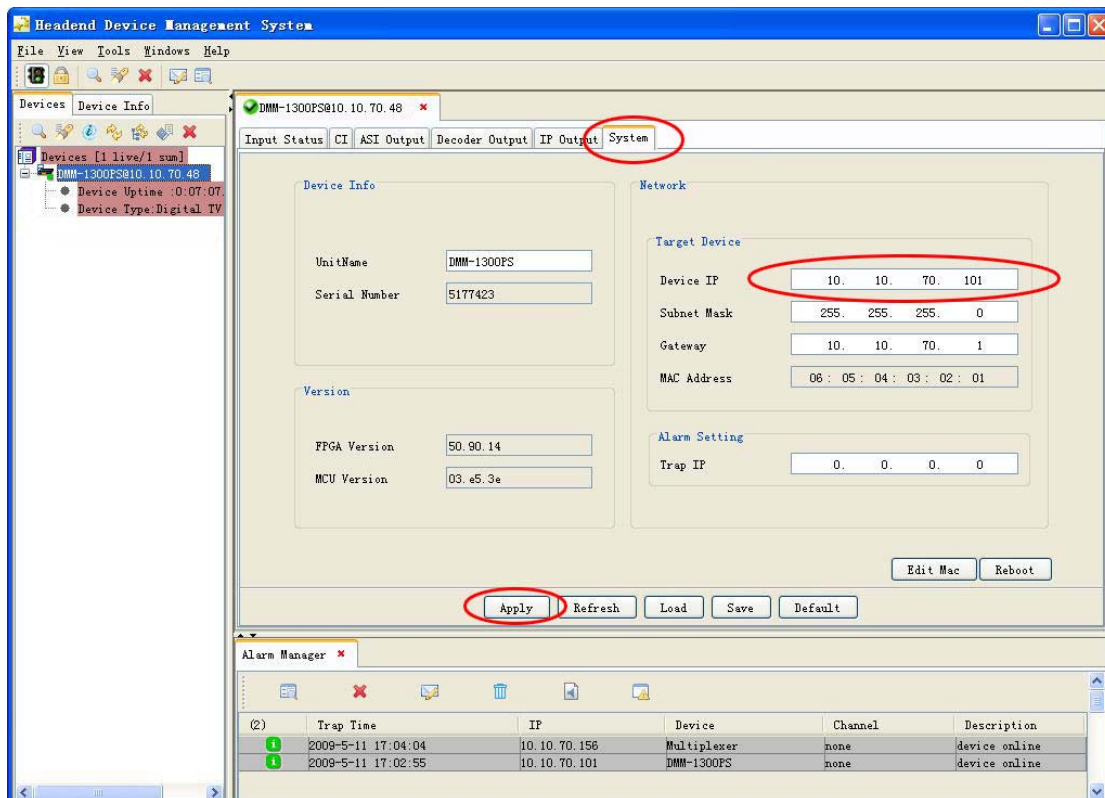
### 2.3 Edit IP addresses of modules

The default IP address of each module is 10.10.70.48, thus you firstly should set IP addresses of modules one by one avoid IP address conflict.

Connect your PC with DMM-1000. Set the IP address of your PC to 10.10.70.xx(xx means a number beside 1, 256 and 48). Login HDMS, Click the  button, the module will be detected by HDMS.




Double click the device, it will show the submenu as below. Choose “System” menu, change Device IP to another IP address, then click “Apply” button to confirm your operation. The IP address is set successfully.

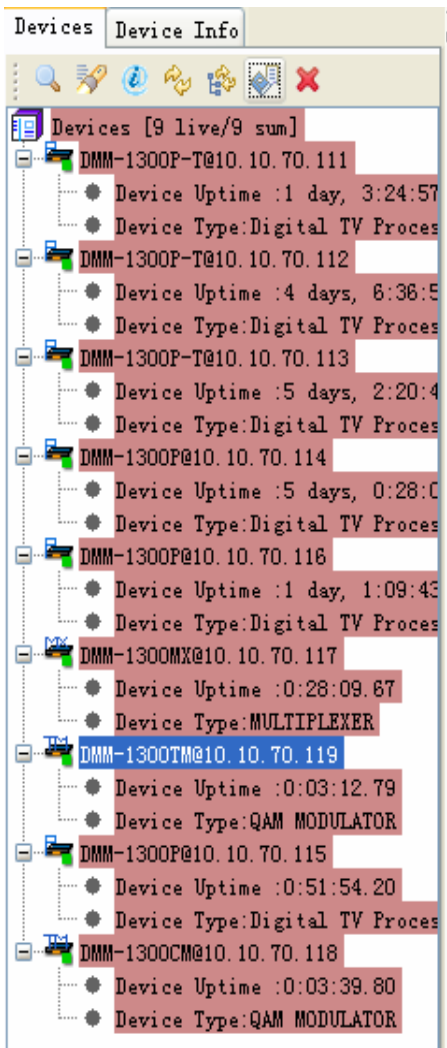










Follow this method above to set IP addresses of other modules one by one.

Note: It is better to use independent LAN to control DMM-1000. That will reduce failures which caused by lack of network resource.

After set IP addresses of all modules, click the  button, all devices will be automatically detected. If the device is green color, that means HDMS connect to the device well. If red color, means fail to connect to the device. If yellow color, means HDMS is trying to connect to the device.

There are some introductions about icons in HDMS:



-  connect the network, click this button, HDMS will detect devices in the LAN automatically.
-  lock screen, click this button, HDMS will be locked. User cannot do any operations until login as Admin to unlock this status.
-  Search devices in LAN, click this button to searching devices in LAN manually.
-  Check device status. Click this button, HDMS will ping each device in LAN to check their working status.
-  Delete device, click this button to delete the device in list.
-  Set email configuration, click this button to set email forwarding function when alarm.
-  Review Alarm history. Click this button to check alarm record.
-  Network topology, click this button to show network topology diagram.

### 3. Advanced Operation on HDMS

#### 3.1 DMM-1300P Professional IRD module

DMM-1300P is a professional IRD module, which supports QPSK, QAM, COFDM, DVB-S2 and ASI input (different models). Each DMM-1300P has a CI slot for CAM to decrypt various Conditional Access Systems, such as Irdeto, Viaccess, Conax, PowerCAM and SMiT etc. It also can convert TS to IP format. It supports Unicast and 7-way Multicast.

Double click DMM-1300P module in HDMS, it will show sub-menus as below:

## Input Status menu

The screenshot shows the 'Input Status' menu with the following details:

- State Section:**
  - ASI In:** Red indicator, Total Bitrate (Mbps) [empty], Packet Size (Byte) [empty].
  - ASI Out:** Green indicator, Total Bitrate (Mbps) 43.303120, Packet Size (Byte) [empty].
  - Tuner:** Green indicator, Total Bitrate (Mbps) 43.303120, Packet Size (Byte) 204.
  - Strength (dBm):** -99
  - C/N (dB):** 10
  - BER:** 1.3e-6
  - Eb/No (dB):** 8
- Status Polling Section:**
  - Frequency: 5 s
  - Buttons: Apply, Done
- QPSK Setting Section:**
  - LNB Freq (MHz): 5150
  - Sat Freq (MHz): 4000
  - Symbol Rate (KBaud): 28850
  - LNB Voltage: OFF
  - LNB 22KHz: OFF
- Bottom Buttons:** Apply, Refresh, Load, Save

**State option**

ASI IN: Status of ASI input. Red color means there is no ASI input. If there is ASI input, it will turn green.

Total Bitrate: shows the bitrate of ASI input

Packet Size: shows packet size of ASI input

ASI OUT: Status of ASI output. Red color means there is no ASI output. If there is ASI output, it will turn green.

Total Bitrate: shows the bitrate of ASI output

Tuner: Status of Tuner input. Red color means there is no tuner input. If there is tuner input, it will turn green.

Total Bitrate: Total bitrate of Tuner input

Packet Size: Packet size of Tuner input

Strength: Strength of Tuner input

C/N: Carrier-to-Noise Ratio of Tuner input

BER: Bit error ratio of Tuner input

Eb/No: Quality of Tuner input

**Status Polling option**

Frequency: set pulling time within range of 5-30s.

Done: refresh status polling.

**QPSK setting option**

LNB Freq: sets the LNB Local Oscillator (L.O.) frequency

Sat Freq: sets satellite downlink frequency

Symbol Rate: sets symbol rate

LNB Voltage: selects correct LNB voltage: Off, 13V, 18V (Usually, 13V switches the LNB to

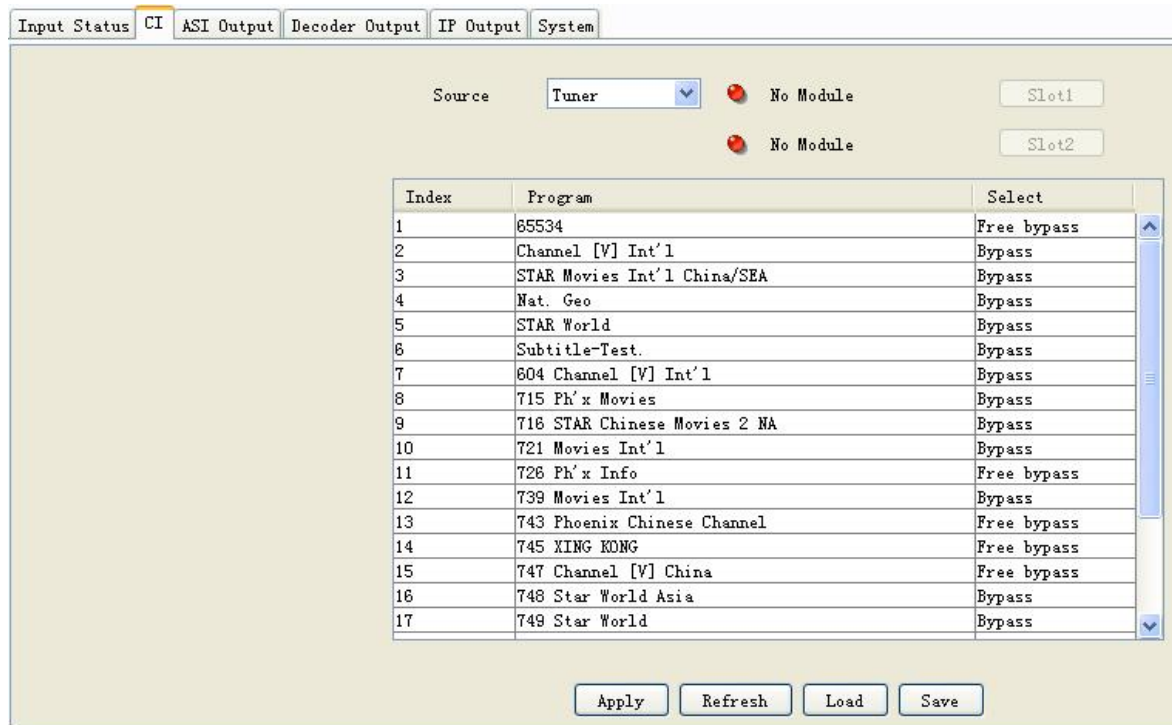


receive Vertical/Left hand polarization while 18V receive Horizontal/Right hand)

LNB 22K: activate the LNB 22kHz control signal to the LNB: On or Off (Usually, 22KHz control signal switches the LNB to receive high band if any)

After set the relative parameters, please click “Apply” button to confirm and then click “Refresh” button to obtain current settings

CI menu. When user wants to decrypt with CAM module, you can enter this sub-menu.



Source: Select input signal source which user wants to decrypt with CAM. There are two options: Tuner and ASI.

Slot1/Slot2: There are two CI slots on DMM-1300P, but one slot is for backup, user cannot use two CAM modules at the same time. When user insert CAM module into CI slot of DMM-1300P, there will be CAM info appears in this sub-menu. If there is no CAM module in CI slot, it will show “No Module”

Program table: After select input signal source and press “Apply” button, the program list will appear. In “Select” column, the default setting is “Bypass” which means don’t do any decrypt operation. If user want to decrypt program, double click Bypass column and change it to Slot1(or Slot2). Then click “Apply” button to confirm.

Apply: this button is used to confirm your operation. When you make any settings, you need to click this button to confirm your operation.

Refresh: click this button will refresh program list.

Save: user can save this setting into your PC.

Load: user can load setting from your PC.

ASI Output menu, when user wants to output ASI signal, you can enter this sub-menu.

Source: signal source of ASI output selection, user can select Tuner, ASI or CI. If select Tuner, DMM-1300P will output programs in ASI output port directly without any decryption.

Packet Size: ASI output packet size setting; user can select 188 or Bypass

Click “Apply” to achieve operations above.

Refresh: Click this button to check whether your operation is achieved.

Save: user can save this setting into your PC.

Load: user can load setting from your PC.

Decoder Output menu. When user wants to output AV signal, you can enter this sub-menu

**Decoder Play**

Source: choose which signal source you want to decode. User can select Tuner, ASI or CI.

Program: After select Source, the program list of this source will appear. Select one program that you want to decode, click “Apply” button to confirm.

**Video Output**

Video Standard: User can select Auto, PAL, NTSC or SECAM.

Screen: Video screen display option. User can select Auto, 4:3 Full, 16:9 Full or 16:9 Full.

DVB Subtitle Lang: select DVB Subtitle language

EBU Subtitle Lang: select EBU Subtitle language

Subtitle Priority: configure the priority of subtitle. User can select DVB First or EBU First.

Fail Mode: It includes Black Screen, No Sync and Still Picture

**Biss Info**

Biss Mode: It includes OFF, Biss E and Biss 1

Biss 1 Setup: Set Biss 1, password is required

Biss E Setup: Set Biss E, ID number and password are required

**Audio Output**

Audio Level: It can be adjusted in the range of 0 to 99.

Audio Mode: User can select *Stereo*, *Left*, *Right* or *Mono* for soundtracks.

Audio Language

Click “Apply” to achieve operations above.

IP Output menu. When user wants to output IP signal, you can enter this sub-menu

Source	Tuner	Stream IP	10. 10. 70. 10
TS Pkts Per UDP	7	Stream Netmask	255. 255. 255. 0
Protocol	UDP	Stream Gateway	10. 10. 70. 1
Time To Live	5	Stream MAC Address	00 : 0E : 26 : FF : 04 : 31
Type of Service	Normal	Gateway Mac Address	00 : 01 : 00 : 00 : 00 : 01

Mode: IPTV [Multicast Setup]

[Apply] [Refresh] [Load] [Save] [Edit Mac]

Source: choose which signal source you want to output with IP format. User can select Tuner, ASI or CI.

TS Pkts Per UDP: Set how many TS packages will be encapsulated in one UDP package. The valid range goes from 1 to 7.

Protocol: User can select UDP or RTP.

Time To Live: Set the number of the routers over which the TS over IP can be transmitted. The valid range goes from 1 to 5.

Type of Service: User can select Normal, Min Monetary Cost, Max Reliability, Max Throughput or Min Delay.

Stream IP Addr: Enter the IP address for streaming IP output.

Stream Netmask: Enter the network sub mask for the subnet to which the unit is connected for IP streaming traffic.

Stream Gateway: Set the gateway for the network to which the unit is connected for IP streaming traffic.

Stream Mac Address: Factory-set MAC addresses are guaranteed to unique. Therefore you cannot configure the address.

Gateway Mac Address: Set gateway Mac Address

Mode: Select the mode of IP stream output, user can select DVB or IPTV.

Click "Apply" to achieve operations above.

DVB mode: TS which comes from the 'source' selected in previous step will be packed into IP Stream directly. It requires configuring the following parameters.

The screenshot shows a dialog box titled "DVB Mode Setting". It contains the following fields and values:

Multi-/Unicast IP	225. 1. 1. 1
Multicast UDP Port	3000
Target Mac Address	00 : 00 : 24 : 58 : 12 : 87

Buttons: OK, Close

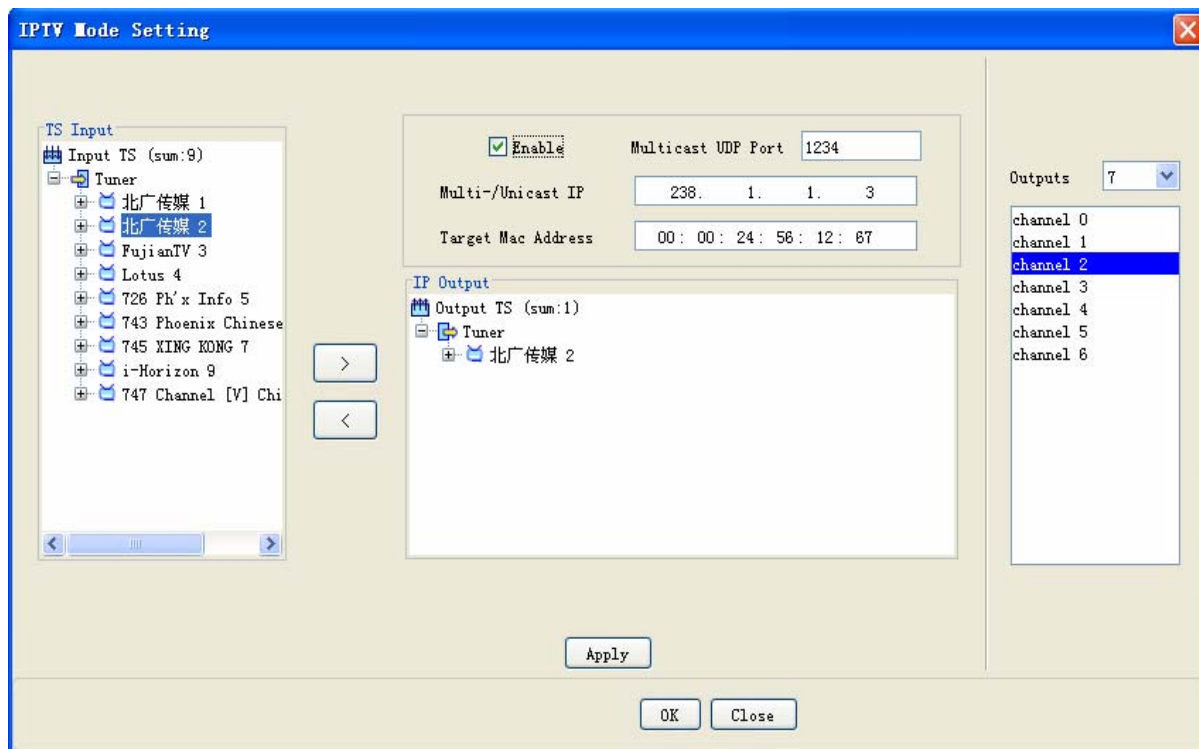
Multi/Unicast IP: Set Multi/Unicast IP address.

Multicast UDP Port: Set Multicast UDP port number.

Target Mac Address: Set the Mac address of PC at the receiving end in Unicast mode.

Click "Apply" to achieve operations above.

IPTV mode: TS which comes from the 'source' selected in previous step will be de-Muxed to several single programs, and each program is packed into one IP stream.



Output: Select IP TV outputs 1~7, it supports maximum 7-way Multicast IP output.

Channel 0~6: Set IP output parameters of each channel.

Enable: Select to active one channel.

Multi/Unicast IP: Set Multi/Unicast IP address.

Multicast UDP Port: Set Multicast UDP port number.

Target Mac Address: Set the Mac address of PC at the receiving end in Unicast mode.

TS Input: show program list of signal source.

IP Output: Select the output program of each channel.

Click "Apply" to achieve operations above.

Note: IP output of DMM-1300P is based on 100M base-T, so we suggest to control the bitrate within 80Mbps for best quality.

System menu. User can edit IP address and check some info about device.

The screenshot shows a web-based configuration interface for a DMM-1300P-T010.10.70.112 device. The interface is divided into several sections:

- Device Info:** Contains fields for UnitName (DMM-1300F-T) and Serial Number (12345678).
- Version:** Contains fields for FPGA Version (50.d0.14) and MCU Version (03.e4.3e).
- Network:** Contains fields for Target Device settings: Device IP (10.10.70.112), Subnet Mask (255.255.255.0), Gateway (10.10.70.1), and MAC Address (00:0E:28:FF:04:30).
- Alarm Setting:** Contains a field for Trap IP (10.10.70.170).

At the bottom of the interface, there are several control buttons: Edit Mac, Reboot, Apply, Refresh, Load, Save, and Default.

#### Device Info

Unit Name: User can edit the unit name.

#### Version

FPGA Version: The version of the FPGA software

MCU Version: The version of the MCU software

#### Network

##### Target Device

Please refer to Section 2.3 for setting method of IP address.

##### Alarm Setting

Trap IP Addr: When there is alarm on DMM-1300P, it can send alarm message to another monitor PC. You can set the Trap IP address to be the IP address of the PC on which the HDMS has been installed.

Click "Apply" to achieve operations above.

Reboot: Reboot device.

Default: Recover device to factory default settings

Refresh: Click this button to check whether your operation is achieved.

Save: user can save this setting into your PC.

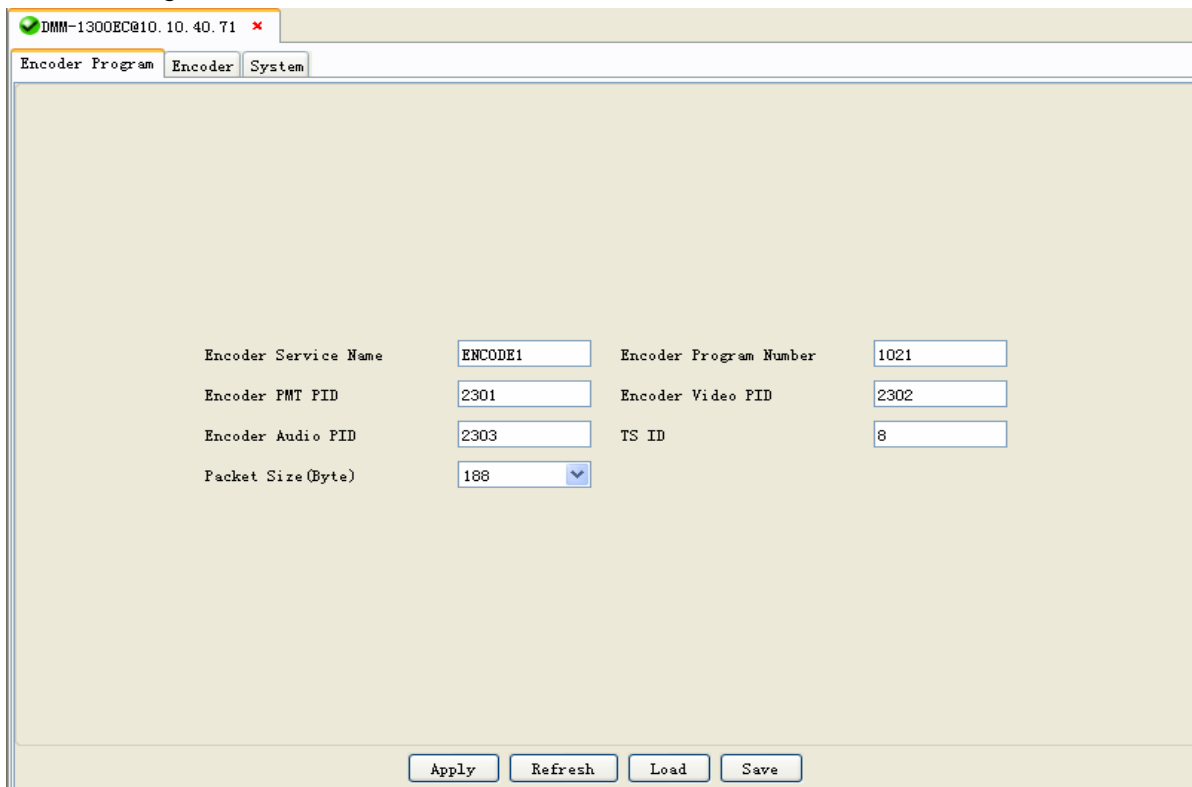
Load: user can load setting from your PC.

### 3.2 DMM-1300EC MPEG-2 Encoder Module

DMM-1300EC is a real time MPEG-2 encoder which fully complies with ISO/IEC13818. It supports SDI (audio embedded) or CVBS input and ASI output.

Double click DMM-1300EC module in HDMS, it will show sub-menus as below:

Encoder Program menu



Encoder Service Name: User can edit the encoded program's name.

Encoder PMT PID: Set the PMT PID of encoded program.

Encoder Audio PID: Set the Audio PID of encoded program.

Packet Size: ASI output Packet length format, user can select 188 or 204.

Encoder Program Number: Set the program number of encoded program.

Encoder Video PID: Set the video PID of encoded program.

TS ID: Set the ID number of TS.

Click "Apply" to achieve operations above.

## Encoder menu

The screenshot shows a web-based interface for configuring an encoder. It has three tabs: 'Encoder Program', 'Encoder', and 'System'. The 'Encoder' tab is active. The interface is divided into two main sections: 'Video Info' and 'Audio Info'. At the bottom, there are four buttons: 'Apply', 'Refresh', 'Load', and 'Save'.

**Video Info**

Video Source	SDI Video	Resolution	D1
GOP	IBBPBBPBB	Mode	PAL
Encoding BitRate (Kbit/s)	5000	Saturation Control	142
Hue Control	0	Brightness Control	155
Contrast Control	128	GOP Size	24

**Audio Info**

Audio Input Source	SDI Audio	Layer	Layer2
Bit Rate (Kb/s)	256K	Channel	Stereo
Sample (KHz)	48K	Audio Level	29
AES Group	Group1		

The Audio Level slider ranges from 0 to 63.

**Video Info**

Video Source: Video input source, user can select composite Video or SDI Video.

GOP: Used for setting GOP (group of pictures) structures. It supports 4 modes: I1111111, IPPPPPPPP, IBIPBPBPB and IBBPBBPBB. The compression rate of the IBBPBBPBB mode is the highest, followed by IBIPBPBPB, IPPPPPPPP and I1111111

Resolution: Represents the video resolution. There are 7 formats: D1, HD1, SIF, QSIF, Slice screen, 2/3D1, 3/4D1

Mode: Supports PAL, NTSC and SECAM output.

Encoder BitRate: User can set the encoding BitRate, the default value is 5Mbit/s.

Saturation Control: User can adjust the saturation.

Brightness Control: User can adjust the brightness.

Hue Control: User can adjust the hue.

Contrast Control: User can adjust the contrast.

GOP Size: Used for setting GOP size.

**Audio Info**

Audio Input Source: Audio Input source, user can select Composite Audio or SDI Audio

Bit Rate: The occupied bandwidth of audio signal in output: 32K, 64K, 128K, 192K, 256K or 384K

Sample: Different sample rate: 32K, 44.1K or 48K.

Layer: The mode of MPEG-2 audio encode: Layer1 or Layer2.

Channel: Stereo, Joint Stereo, Dual Channel or single Channel as track Audio.

Click "Apply" to achieve operations above.



System menu

Device Info

Unit Name: User can edit the unit name.

Version

FPGA Version: The version of the FPGA software

MCU Version: The version of the MCU software

Network

Target Device

Please refer to Section 2.3 for setting method of IP address.

Alarm Setting

Trap IP Addr: When there is alarm on DMM-1300EC, it can send alarm message to another monitor PC. You can set the Trap IP address to be the IP address of the PC on which the HDMS has been installed.

Click "Apply" to achieve operations above.

Reboot: Reboot device.

Default: Recover device to factory default settings

Refresh: Click this button to check whether your operation is achieved.

Save: user can save this setting into your PC.

Load: user can load setting from your PC.

### 3.3 1300MX Re-Multiplexer Module

DMM-1300MX is a DVB TS re-Multiplexer, which supports 8 ASI Input and 2 ASI output (one output port is for backup). It is based on PID exchange technology and can support MPTS. It can detect Input packet length automatically, and allow user to configure output packet length.

Double click DMM-1300MX module in HDMS, it will show sub-menus as below:

#### Input Status menu

Input Status	Total Bitrate (Mbps)	Valid Bitrate (Mbps)
ASI1	0.0	0.0
ASI2	0.0	0.0
ASI3	38.014	32.571
ASI4	38.014	32.568
ASI5	18.87	16.113
ASI6	18.87	16.113
ASI7	18.87	16.113
ASI8	18.87	16.113

Frequency 5 s

Input Status: Indicators for ASI 1-ASI 8 input status respectively.

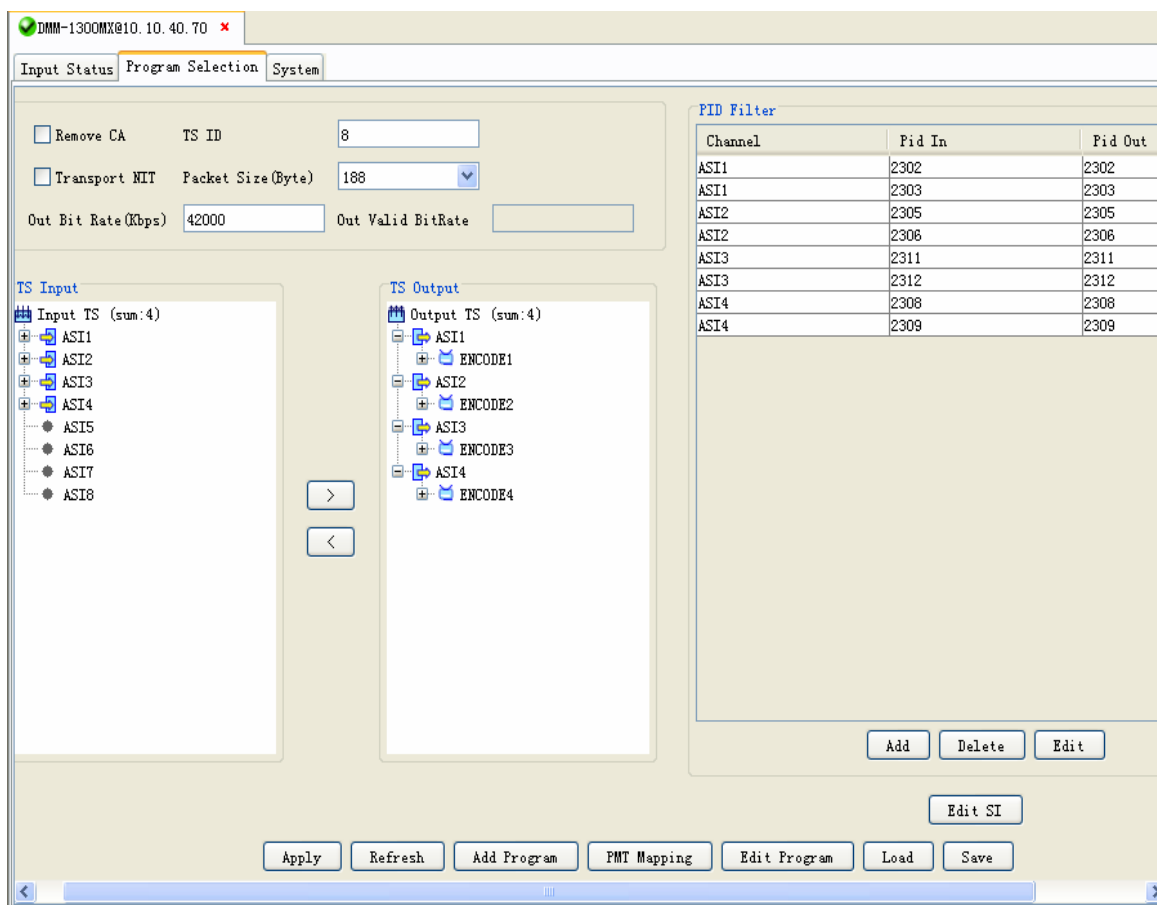
Green: There is ASI input    Red: There is no ASI input

Total Bitrate: Input Bitrate of ASI input.

Valid Bitrate: Valid Bitrate of ASI input.

Click "Apply" to achieve operations above.

Program Selection menu



Remove CA: If select this option, it will remove the CA descriptor in TS stream.

Transport NIT: If select this option, it will keep NIT in TS stream

TS ID: Set the ID of TS stream for distinguishing from other streams in the same system

Packet Size: Set the ASI packet Size, user can select 188 or 204 packet length.

Out Bit Rate: Set the total Bit rate for ASI output. Please ensure Our Bit rate is larger than Out valid bitrate.

Out Valid BitRate: Set the Valid Bitrate for ASI output.

TS Input: Program list from ASI input. User can click “Refresh“button to refresh the list.

TS Output: Select the programs for ASI output.

Click “Apply” to achieve operations above.

## System menu

DMM-1300MX@10.10.40.70

**Device Info**

Device Type:

UnitName:

Serial Number:

**Network**

**Target Device**

Device IP:

Subnet Mask:

Gateway:

MAC Address:

**Version**

FPGA Version:

MCU Version:

Hardware Version:

**Alarm Setting**

Trap IP:

## Device Info

Unit Name: User can edit the unit name.

## Version

FPGA Version: The version of the FPGA software

MCU Version: The version of the MCU software

## Network

## Target Device

Please refer to Section 2.3 for setting method of IP address.

## Alarm Setting

Trap IP Addr: When there is alarm on DMM-1300MX, it can send alarm message to another monitor PC. You can set the Trap IP address to be the IP address of the PC on which the HDMS has been installed.

Click "Apply" to achieve operations above.

Reboot: Reboot device.

Default: Recover device to factory default settings

Refresh: Click this button to check whether your operation is achieved.

Save: user can save this setting into your PC.

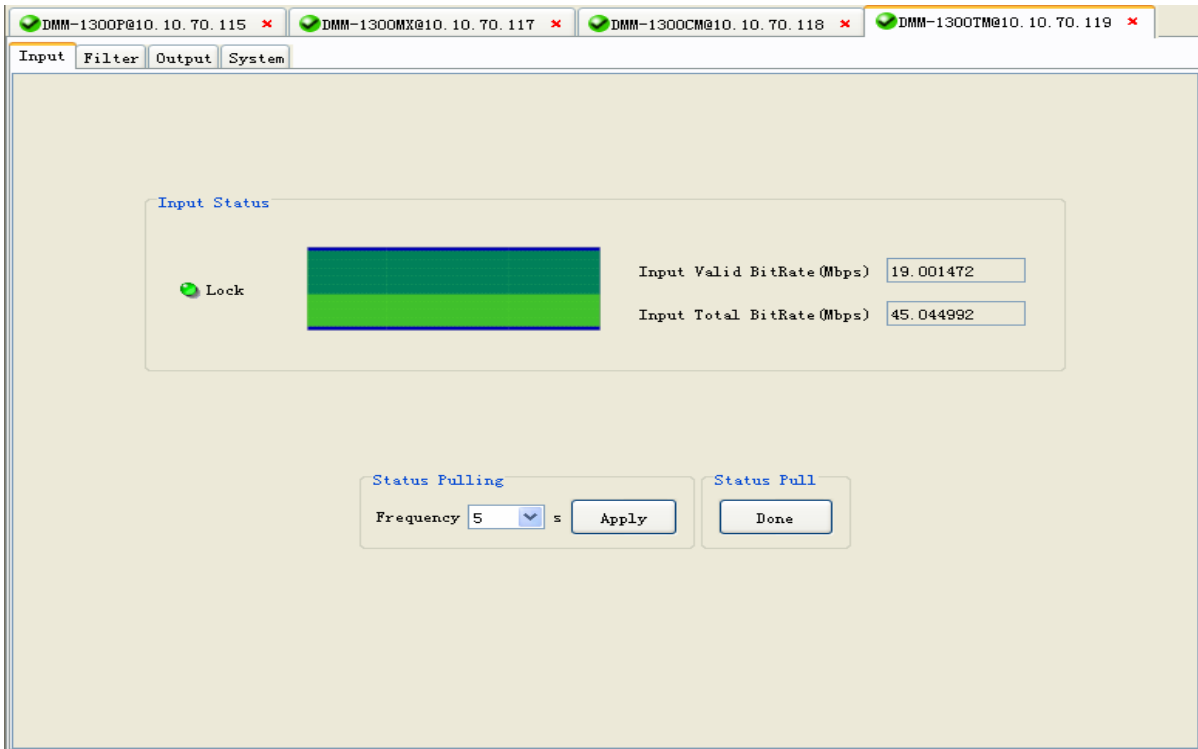
Load: user can load setting from your PC.

### 3.4 1300TM Modulator Module

1300TM is a full band adjacent agile DVB modulator for QAM or COFDM (depends on different models). It can convert ASI signal to RF carrier. User can use its PID filtering function to remove unnecessary programs to save bandwidth.

Double click DMM-1300TM module in HDMS, it will show sub-menus as below:

Input menu



Input Valid Bitrate: show valid Bitrate of ASI input.

Input Total Bitrate: show total Bitrate of ASI input.

## Filter menu

Enable    Source: ASI    Research

Index	Program	Select
1	Lotus 5	<input checked="" type="checkbox"/>
2	i-Horizon 6	<input checked="" type="checkbox"/>
3	Lotus 7	<input type="checkbox"/>
4	i-Horizon 9	<input type="checkbox"/>
5	Lotus	<input type="checkbox"/>

Apply    Refresh    Load    Save

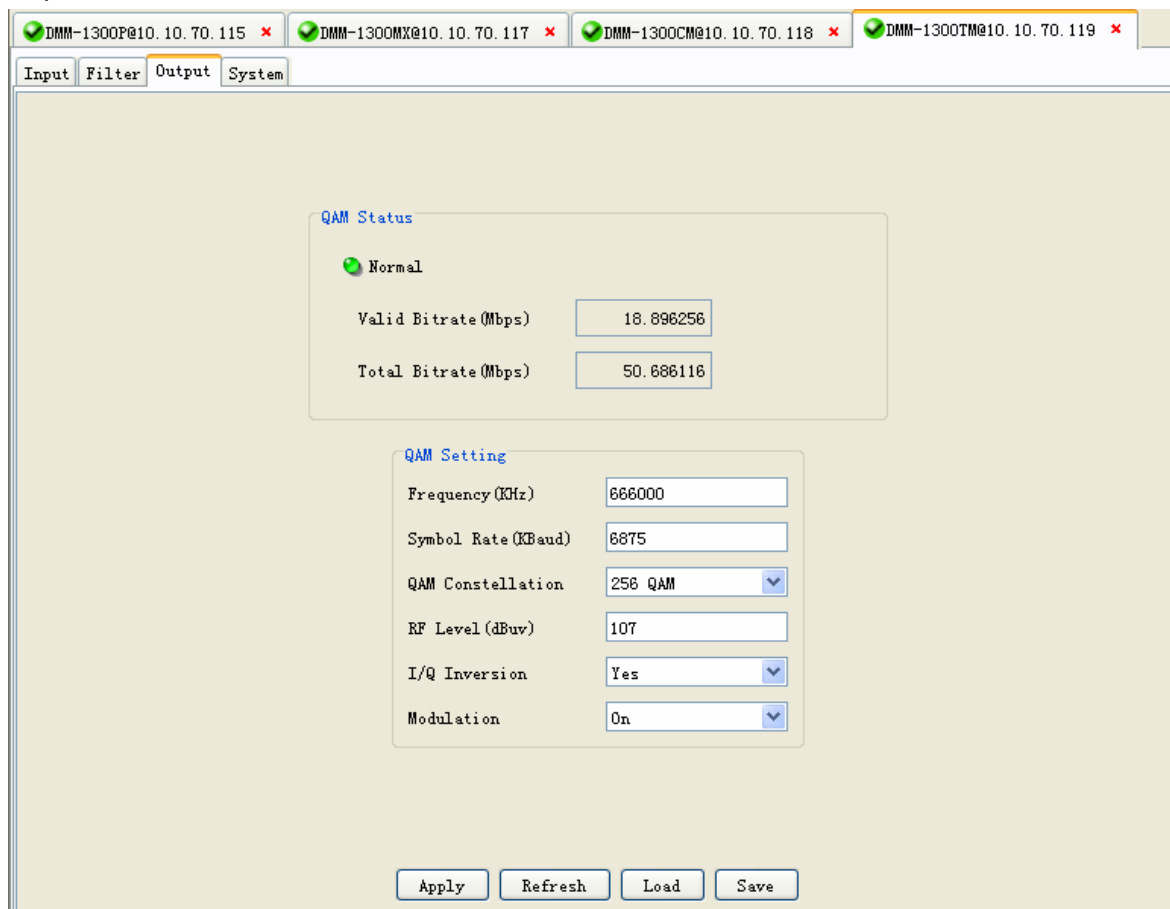
Enabled: Active PID filter function. When enable filter function, user can select program which you want to filter out. If you don't make any selection, it will output all programs in the list.

Source: Select signal source which you want to filter programs. User can select Tuner, ASI or CI.

Research: When the input source is changed, click "Research" button to regenerate TS data, then click "Refresh" button to get new program list.

Click "Apply" to achieve operations above.

Output Menu



**QAM Status**

Normal:

Green light: means it modulate ASI signal to QAM signal normally with current settings.

Red light: Means overflow.

Valid Bitrate: show Valid Bitrate of ASI input.

Total Bitrate: show the max. Bitrate allowed under current settings.

Note: It is suggested to keep Valid Bitrate 3M smaller than total Bitrate for better transmission.

**QAM Setting**

Frequency: Set output RF carrier frequency within range of 48~860MHz.

Symbol Rate: Symbol Rate for QAM modulation, the default value is 6875KBaud

QAM Constellation: User can select 16/32/64/128/256/64B/256B QAM.

RF Level: Adjustable within range of 97~110dB.

I/Q Inversion: Selecting “Yes” for Inverted I/Q, selecting “No” for non-inverted.

Modulation: Selecting QAM modulation. Selecting ON to activate QAM modulation and selecting OFF to output single non-modulated carrier (for example, to measure the channel power).

Click “Apply” to achieve operations above.

## System menu

The screenshot displays the 'System' configuration page for a DMM-1300TM device. The page is divided into several sections:

- Device Info:** UnitName (DMM-1300TM), Serial Number (305419896).
- Version:** FPGA Version (MM1300FILTER\_AC\_5.1.8), MCU Version (MM1300FILTER\_AC\_5.1.8), Hardware Version (3000TM-MB-B), QAM Version (C-13).
- Network:** Target Device section with Device IP (10.10.70.119), Subnet Mask (255.255.255.0), Gateway (10.10.70.1), and MAC Address (12:21:12:21:12:35).
- Alarm Setting:** Trap IP (10.10.70.170).

At the bottom, there are control buttons: Apply, Refresh, Load, Save, Default, EditMac, and Reboot.

## Device Info

Unit Name: User can edit the unit name.

## Version

FPGA Version: The version of the FPGA software

MCU Version: The version of the MCU software

## Network

## Target Device

Please refer to Section 2.3 for setting method of IP address.

## Alarm Setting

Trap IP Addr: When there is alarm on DMM-1300TM, it can send alarm message to another monitor PC. You can set the Trap IP address to be the IP address of the PC on which the HDMS has been installed.

Click "Apply" to achieve operations above.

Reboot: Reboot device.

Default: Recover device to factory default settings


Refresh: Click this button to check whether your operation is achieved.

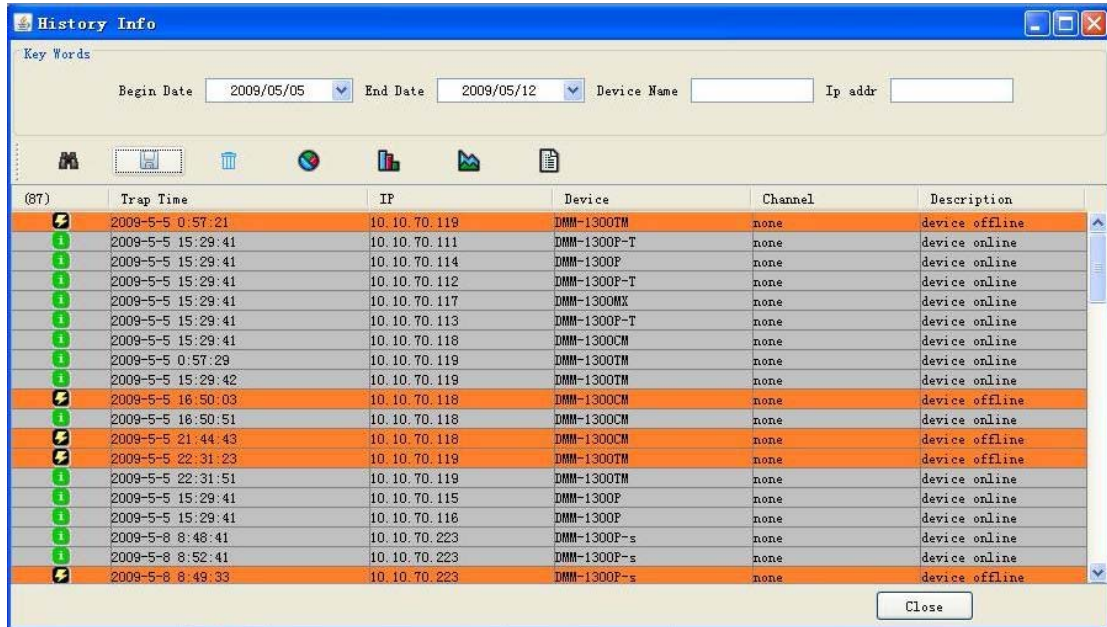
Save: user can save this setting into your PC.

Load: user can load setting from your PC.



### 3.5 Alarms management

When you set the Trap IP address to be the IP address of the PC on which the HDMS has been installed. Click the  button, you can check all the alarm information in history record as below.





The screenshot shows a window titled "History Info" with a search filter for "Key Words". Below the search fields, there is a toolbar with several icons. The main area contains a table with the following data:

(87)	Trap Time	IP	Device	Channel	Description
	2009-5-5 0:57:21	10.10.70.119	DMM-1300TM	none	device offline
	2009-5-5 15:29:41	10.10.70.111	DMM-1300P-T	none	device online
	2009-5-5 15:29:41	10.10.70.114	DMM-1300P	none	device online
	2009-5-5 15:29:41	10.10.70.112	DMM-1300P-T	none	device online
	2009-5-5 15:29:41	10.10.70.117	DMM-1300MX	none	device online
	2009-5-5 15:29:41	10.10.70.113	DMM-1300P-T	none	device online
	2009-5-5 15:29:41	10.10.70.118	DMM-1300CM	none	device online
	2009-5-5 0:57:29	10.10.70.119	DMM-1300TM	none	device online
	2009-5-5 15:29:42	10.10.70.119	DMM-1300TM	none	device online
	2009-5-5 16:50:03	10.10.70.118	DMM-1300CM	none	device offline
	2009-5-5 16:50:51	10.10.70.118	DMM-1300CM	none	device online
	2009-5-5 21:44:43	10.10.70.118	DMM-1300CM	none	device offline
	2009-5-5 22:31:23	10.10.70.119	DMM-1300TM	none	device offline
	2009-5-5 22:31:51	10.10.70.119	DMM-1300TM	none	device online
	2009-5-5 15:29:41	10.10.70.115	DMM-1300P	none	device online
	2009-5-5 15:29:41	10.10.70.116	DMM-1300P	none	device online
	2009-5-8 8:48:41	10.10.70.223	DMM-1300P-s	none	device online
	2009-5-8 8:52:41	10.10.70.223	DMM-1300P-s	none	device online
	2009-5-8 8:49:33	10.10.70.223	DMM-1300P-s	none	device offline

A "Close" button is located at the bottom right of the window.

## 4. FAQ

<p>1. Why cannot detect devices? If device cannot be detected by HDMS, please check whether following items are implemented correctly:</p>
<p>1) Can device be accessed through Ping order ? Please make sure your PC can ping other devices successfully.</p>
<p>2) Is the IP address of device in the same LAN segments as HDMS? Please make sure the IP address of device is in the same LAN segments as HDMS. For example, if the IP address of the device is 10.10.70.48, you must set IP address of the PC with HDMS to 10.10.70.xx (xx means a number beside 1, 256 and 48)</p>
<p>3) Are your PC only connected to one single network with device? Please connect your PC installed HDMS to only one network with device.</p>
<p>4) Is there any other network management software installed in the PC? Please make sure there is no other third party software based on SNMP protocol being installed in the PC. If there is, please close it and ensure there is no other software using SNMP protocol port.</p>
<p>5) Do you click  button after you login HDMS software? Please click  button first when your login HDMS. Then it will detect device in LAN automatically.</p>
<p>6) Is the software version of DMM-1000 capable with software version of HDMS? Please make sure the software version of DMM-1000 can matches the HDMS version, you can refer to the release notes or contact with PBI engineers.</p>
<p>2. Why cannot boot HDMS? Is the HDMS software installed correctly? Please uninstall HDMS and then re-install it to check whether you can boot it.</p>
<p>3. Why cannot login HDMS? Please ensure your enter the correct user name and password. The initial user name is: hdms, and password is: hdms.</p>

Beijing Jaeger Communication Electronic Technology Co., Ltd.

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Tel: 010-81617178 Fax: 010-82610263