
H.264 SD/HD Encoder

DCH-5200EC

User Manual



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

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Notices

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WARRANTY

This warranty does not cover parts which may become defective due to misuse of the information contained in this manual.

Read this manual carefully and make sure you understand the instructions provided. For your safety, be aware of the following precautions.



WARNING! IMPORTANT SAFETY INSTRUCTIONS

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING

- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- To avoid explosion danger, do not dispose of batteries in an open fire.

CE MARK FOR EUROPEAN HARMONISED STANDARDS



The CE mark which is attached to these products means it conforms to EMC Directive (89/336/EEC) and Low Voltage Directive (73/23/EEC).

IMPORTANT INFORMATION

Please retain the original packaging, should it be necessary at some stage to return the unit.

Disposal of Old Electrical and Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service, or the shop where you purchased the product.

COPYRIGHTS

Television programs, movies, video tapes, discs, and other materials may be copyrighted. Unauthorized recording of copyrighted material may be against the copyright laws in your region. Also, use of this product with cable television transmissions may require authorization from the cable television operator or transmitter/owner.

VENTILATION

- Do not expose the product to high temperatures, such as placing it on top of other product that produce heat or in places exposed to direct sunlight or spot lights.
- The ventilation slots on top of the product must be left uncovered to allow proper airflow into the unit.
- Do not stand the product on soft furnishings or carpets.
- Do not stack electronic equipment on top of the product.
- Do not place the product in a location subject to extreme changes in temperature. The temperature gradient should be less than 10 degrees C/hour.
- Place the product in a location with adequate ventilation to prevent the build-up of heat inside the product. The minimum ventilation space around the unit should be 7 cm. The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table cloth, curtains, etc.

POWER SOURCES

- The product is not disconnected from the AC power source (mains) as long as it is connected to the power outlet or wall socket, even if the product is turned off.



- If the product will not be used for a long period of time, disconnect it from the AC power outlet or wall socket.

Before Using the Device

Thank you for purchasing the DCH-5500EC H.264/MPEG-2 HD Encoder. This User Manual is written for operators/users of the DCH-5500EC to assist in installation and operation. Please read this user manual carefully before installation and use of the device.

FOR YOUR SAFETY

This equipment is provided with a protective earthing ground incorporated in the power cord. The main plug shall only be inserted in a socket outlet provided with a protective earth contact. Any interruption of the protective conductor, inside or outside the device, is likely to make the device dangerous. Do not remove the covers of this equipment. Hazardous voltages are present within this equipment and may be exposed if the covers are removed. Only Beijing Jaeger trained and approved service engineers are permitted to service this equipment.

The supplied AC power cable must be used to power the device. If the power cord becomes damaged it must be replaced. No operator serviceable parts inside. Refer servicing to Beijing Jaeger trained and approved service engineers. For the correct and safe use of the device, it is essential that both operating and servicing personnel follow generally accepted safety procedures in addition to the safety precautions specified in this manual. Whenever it is likely that safety protection is impaired, the device must be made in-operative and secured against unintended operation. The appropriate servicing authority must be informed. For example, safety is likely to be impaired if the device fails to perform the intended measurements or shows visible damage.

WARNINGS

- The mounting environment should be relatively dust free, free of excessive vibration and the ambient temperature between 0C° to 40C°. Relative humidity of 20% to 80% (non-condensed) is recommended.
- Avoid direct contact with water.
- Never place the equipment in direct sunlight.
- The outside of the equipment may be cleaned using a lightly dampened cloth. Do not use any cleaning liquids containing alcohol, methylated spirit or ammonia etc.
- For continued protection against fire hazard, replace line fused only with same type.
- Air intake for cooling is achieved via holes at the side of the device and the fans inside. The air flow should not be obstructed. Therefore, the device has to be placed on a flat surface, leaving some space at the sides of the device.
- When in operation, the internal temperature should not exceed the limit of 70C°.

DVB H.264 SD/HD Encoder

1. Overview

DCH-5200EC is a professional H.264 HD/SD encoder. It has a wide range of digital / analog video and audio inputs such as CVBS, HD-SDI, HDMI, YPbPr. It can support high definition video up to 1080i. The re-multiplexing function creates a new TS between the TS encoded by itself and the TS from ASI or IP. The encoded audio and video TS is outputted from ASI and IP. The high performance of encoding and built-in re-multiplexer makes the DCH-5200EC one of the best deployments in today's digital broadcasting system.

2. Features

- ©H.264 SD/HD video encoding
- ©MPEG-1 Layer II, or AAC LC/HE AAC audio encoding
- ©Supports TS multiplexing
- ©Multiple inputs HDMI, SDI, YPbPr, CVBS, RS-232(Digital audio).
- ©ASI I/O and TS/IP input/output
- ©Supports HD video up to 1080i.
- ©PSI/SI table regeneration
- ©mutual collocation of video and audio input
- ©Support 2 pars of analog stereo audio encoding
- ©Support VBR and CBR encoding mode
- ©Video resolutions rescaling
- ©Remote control and supervision by SNMP, HTTP WEB

3. Technical Specifications

Video Compression	
Video Resolution	1080i (1920/1440×1080) @25Hz, 29.97Hz, 30Hz: SMPTE 292M



	720p (1280x720) @50Hz, 59.94Hz, 60Hz: SMPTE 292M 480i (720x480) @29.97Hz: SMPTE 259M 576i (720x576) @25Hz: SMPTE 259M
Compression Standard	H.264:0 HP@L4.0 (HD); MP@L3.0, HP@L3.0 (SD)
Aspect Ratio	4:3/16:9 selectable
Video Encoding Bit Rate	250Kb/s-20Mb/s
Audio Compression	
Audio Compression	MPEG-1 Layer II, AAC LC
Audio Input	SDI or HDMI Embedded Audio, Analog audio,
Audio Sampling Rate	48 Kb/s
Audio Compression Bit Rate	192-384 Kb/s (Stereo), 32-192Kb/s (Mono)
MUSICAM	Stereo, Dual Mono, Left Mono, Right Mono
Audio/Video Input Interface	
Analog/Digital Audio	2xRS-232 (Audio1, Audio2)
Analog Video	YPbPr , CVBS
Digital Video	HD/SD-SDI, 1xBNC Female, 75Ω
HDMI	1xHDMI 1.3
TS over IP	
Connector Type	1xRJ-45, 10/100M for TS/IP
Useful Bit Rate	70Mb/s for 10/100M
Protocol	UDP / RTP, Multicast / Unicast,
ASI Input	
Connector Type	1xBNC Female, 75Ω
Input Bit Rate	≤100Mbps
Packet Length	88 / 204 Bytes
Signal Level	800mVpp±10%
ASI Output	
Connector Type	2xBNC Female, 75Ω
Output Bit Rate	1.5~67Mbps (Adjustable)



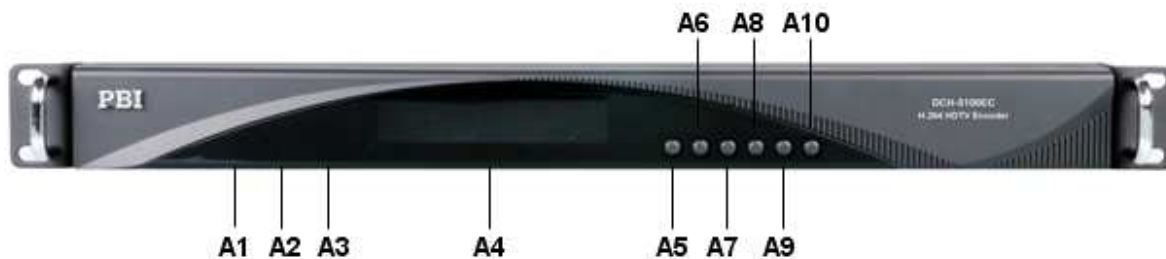
Packet Length	188 / 204 Bytes
Signal Level	800mVpp±10%
Control & Monitoring	
Connector Type	1×RJ-45, 10/100 Base-T, for equipment control
Remote Control	HTTP Web interface
Local Control	LCD display and 6-key keypad
Software Upgrade	Built-in FTP loader and Telnet
Physical	
Dimensions	483mm×498mm×44mm
Net weight	5Kg
Power supply	AC90 ~ 250V 50Hz/60Hz
Power Consumption	19W
Operating Temperature	0 ~ 45°C
Storage Temperature	-10 ~ 60°C
Humidity	10 ~ 90%, non-condensed
Certification	
EMC: EN 55024:1998+A1:2001+A2:2003, EN 55022:2006+A1:2007, EN 61000-3-2:2006, EN 61000-3-3:2008	
FCC: Part 15 Class B	
LVD: EN 60950-1:2006 + A11:2009	

4. Order information

Function		DCH-5200EC-30	DCH-5200EC-32	DCH-5200EC-40	DCH-5200EC-42
Input	ASI	●	●	●	●
	CVBS	●	●	●	●
	SDI	●	●	●	●
	YPbPr	●	●	●	●
	HDMI	●	●	●	●
	Audio 1	●	●	●	●
	Audio 2		●		●
Output	ASI x2	●	●	●	●
	10/100/1000M TS Over IP			●	●
Management	Management	●	●	●	●
	RS-232	●	●	●	●

5. Front panel and rear panel instructions

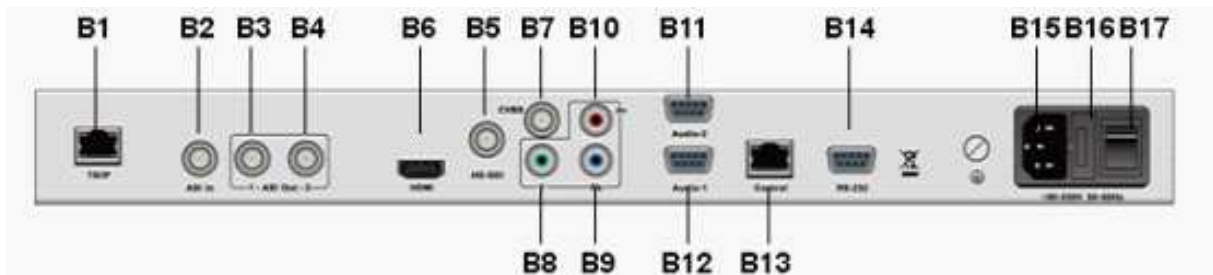
5.1 Front panel



- A1 POWER Power indicator, green light means power supply is working well.
- A2 Warning If red light on, one of the two power supply is power off or fan failed. Malfunction details will be shown in LCD displayer.

- A3 Alarm If red light on, encoding is abnormal, or there is no signal input. Malfunction details will be shown in LCD displayer.
- A4 LCD 2x24 LCD display
- A5-A10 buttons [◀] [▲] [▼] [▶], [ENTER], [EXIT]
- [▲] [▼] Used to navigate within a single menu level, select functions, and change values.
- []◀ [▶] Used to move the cursor.
- [ENTER] Used to enter lower menu or to confirm the choices.
- [EXIT] Used to navigate to an upper menu level or to cancel the choices.

5.2 Rear panel



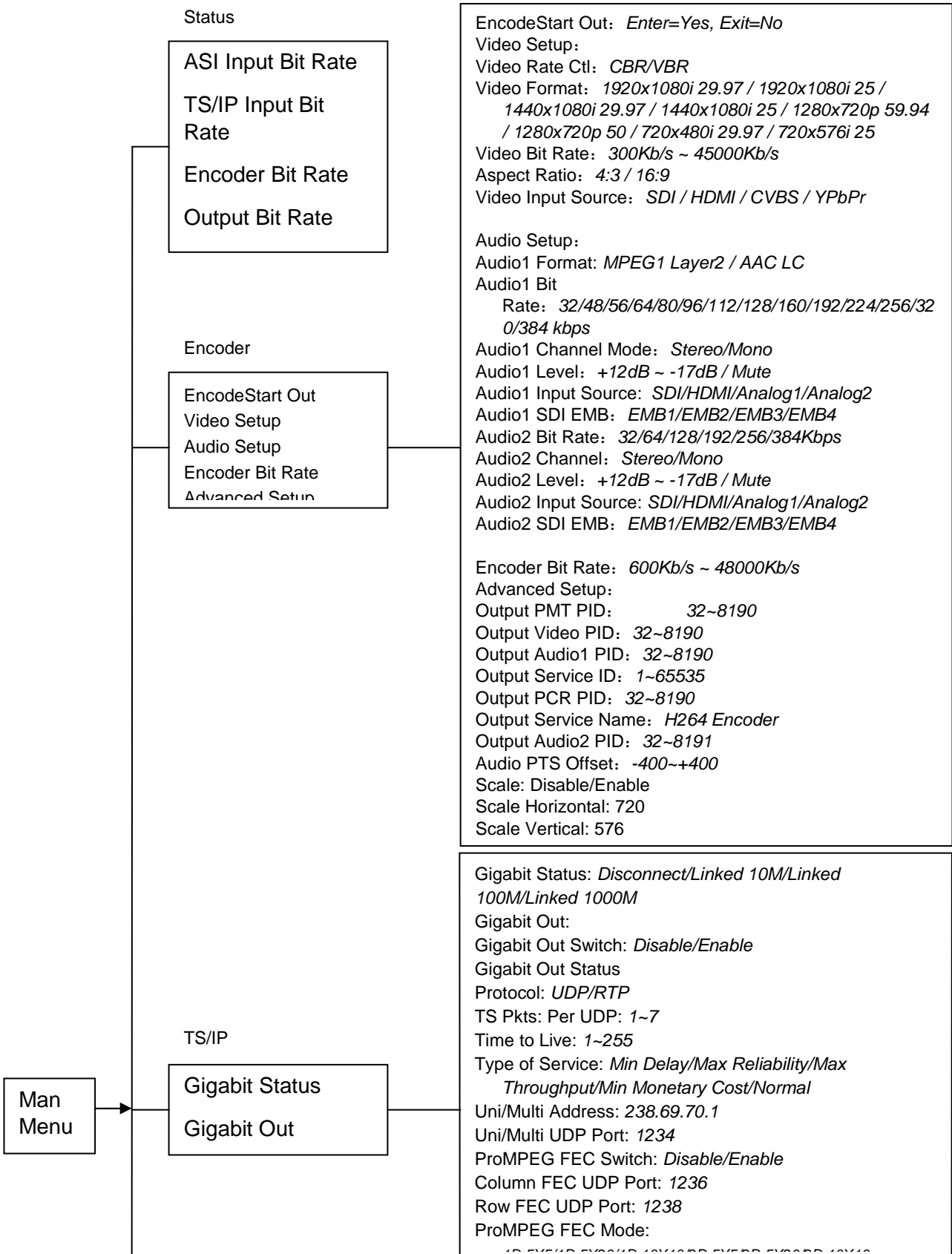
B1	TS/IP	100Base-T fast Ethernet output or input interface
B2	ASI IN	ASI input interface
B3, B4	ASI OUT	ASI output interface (output in mirror)
B5	HD/SD SDI IN	HD/SD SDI input interface
B6	HDMI	HDMI input interface
B7	CVBS	composite video input interface
B8,B9,B10	Y,Pb,Pr	Analog component input interface
B11	Audio-2	AES2、balanced XLR2 input
B12	Audio-1	AES1、balanced XLR1 input
B13	Control	Network management interface for remote control.

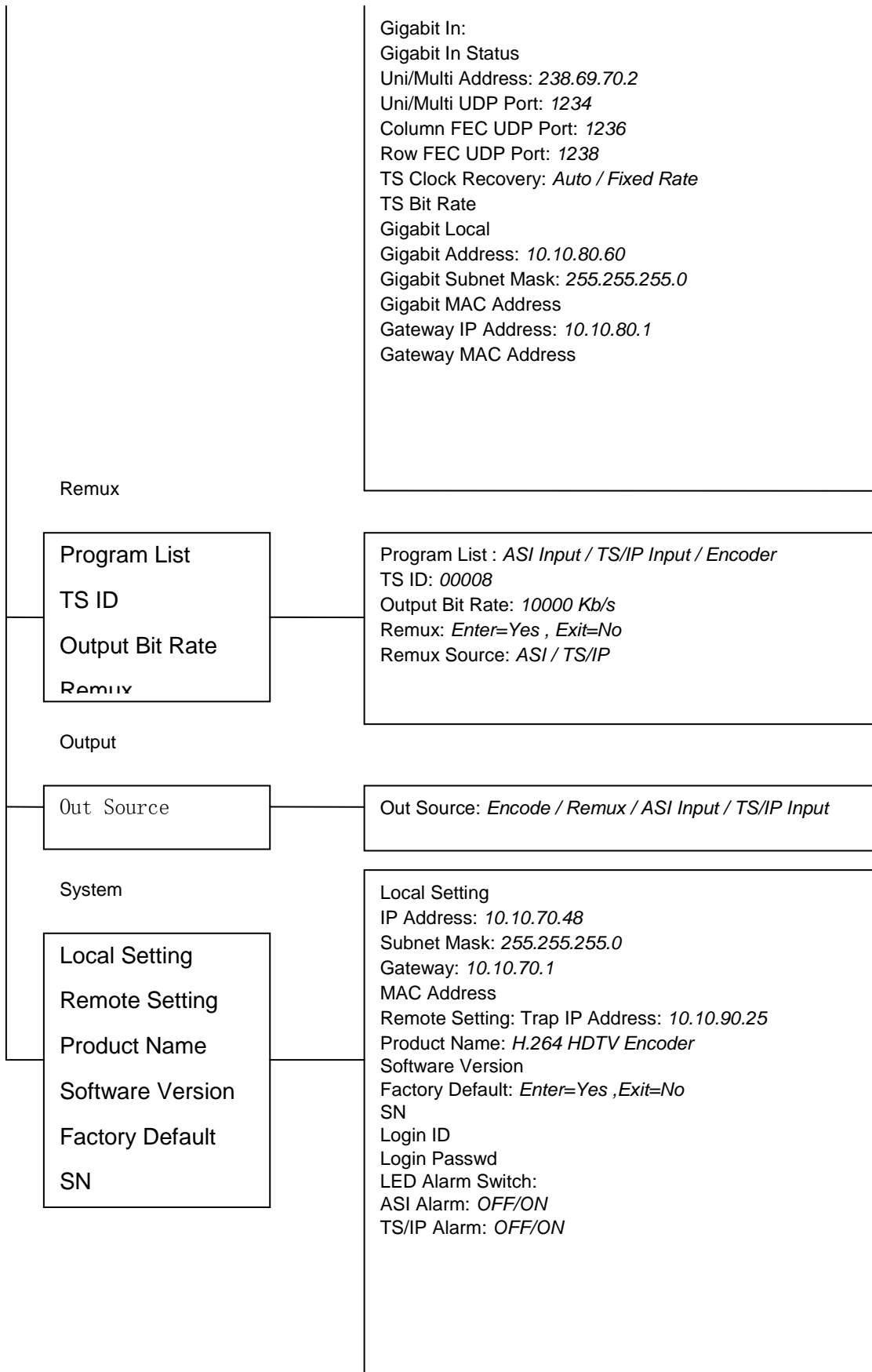


B14	RS-232	Serial printer information interface, used to export Control Panel debug
B15	GND	Earth Connection
B16	Fuse Holder	250V/2A fuse holder equipped in box of power supply
B17	Power supply	AC 90~250V input



6. Menu Structure

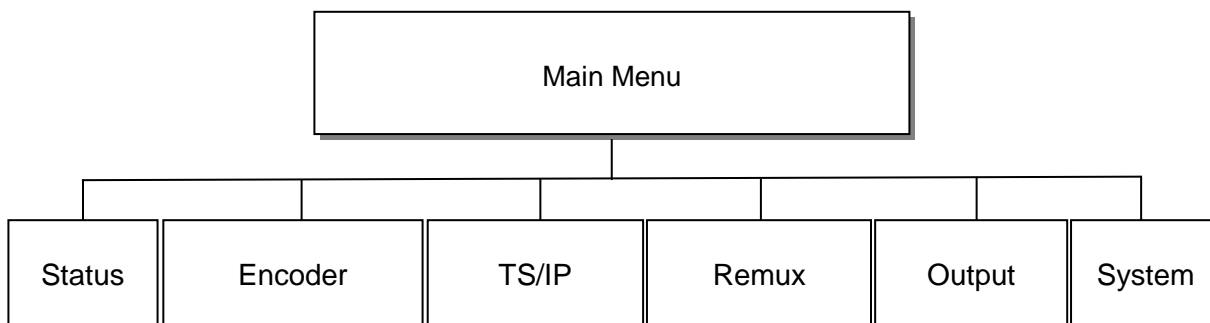




7. Menu operating instructions

Users are advised to restore factory setting of the machine before the first time using it. Because of machine's too many functions, users are advised not to change those temporarily useless parameters in order to avoid unnecessary fault.

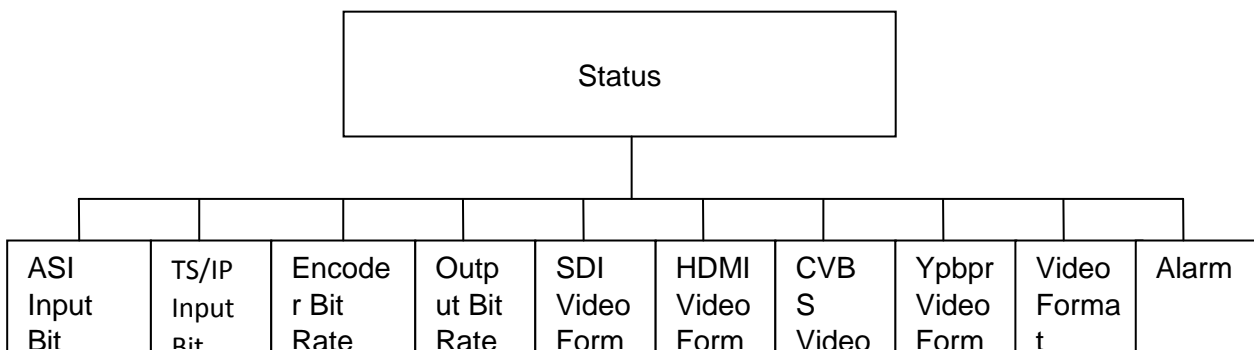
After power on, the type of the product will be shown at the first row of LCD displayer, Local IP address will be shown at the second row. User can press [ENTER] to get into the main menu:



- (1) Status: Configure and monitor status of the machine
- (2) Encode: Configure and monitor parameters of encoding procedure
- (3) TS/IP: Configure and monitor parameters of IP Board
- (4) Remux: Configure and monitor parameters of TS re-multiplexing procedure
- (4) Output: Configure and monitor parameters of TS output
- (5) System: Configure and monitor system parameters

7.1 Status:

Here user can check status of input bit rate, input video format, output bit rate and alarm. It includes 10 options. Menu format is shown as below:



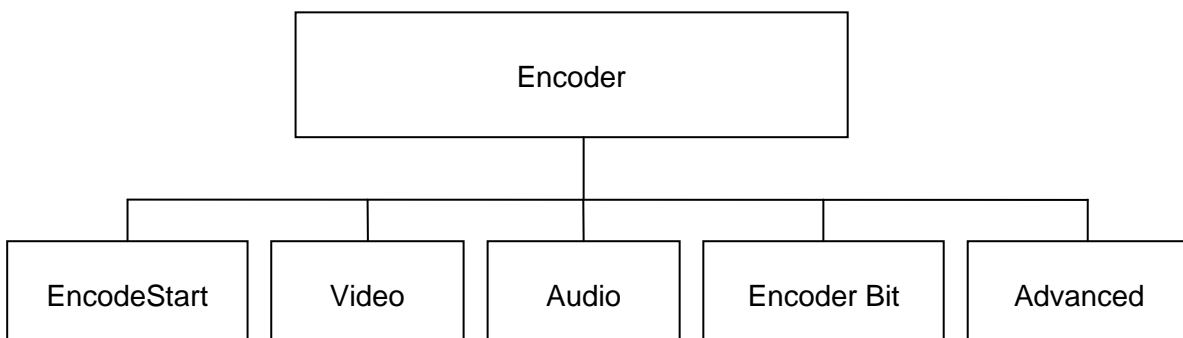
- 1) ASI Input Bit Rate: If there is ASI input signal, it will display the input bit rate on

LCD

- 2) TS/IP Input Bit Rate: If there is TS/IP input signal, it will display the input bit rate on LCD
- 3) Encoder Bit Rate: If there is TS encoded, it will display the bit rate of encoded TS on LCD
- 4) Output Bit Rate: If there is TS out, it will display the output bit rate.
- 5) SDI Video Format: If there is video signal of SDI input, it will display the video format.
- 6) HDMI Video Format: If there is video signal of HDMI input, it will display the video format.
- 7) CVBS Video Format: If there is video signal of CVBS input, it will display the video format.
- 8) Ypbpr Video Format: If there is video signal of Ypbpr input, it will display the video format.
- 9) Video Format Refresh: If there are changes of video input signal, user can refresh the video format manually.
- 10) Alarm: If the machine is working in an abnormal situation, it will display the alarm information.

7.2 Encoder

Here user can configure and check all parameters of encoding function. It includes 5 submenus. Menu format is shown as below:



7.2.1 EncodeStart Out

Here users can operate the machine to start encoding after get all parameters ready. EncodeStart Out: User can press “ENTER” to start encoding, or press “EXIT” to quit.

Attention: User has to reboot the machine after changing any parameters except those stressed with "Immediately valid". During the rebooting, if this line "...ERR, please check, wait" comes up on the LCD displayer, it means the new parameter is wrong, so please check out the wrong parameter. In addition, the line "Parameters changed, Enter=Save, Exit=No" will come up on LCD displayer while exiting the menu with any parameters changed, users have to push ENTER to save the new parameter.

7.2.2 Video Setup

Here user can configure parameters of video encoding function.

- 1) Video Input Source: To configure the source of video signal, user can select among SDI, HDMI, YPbPr and CVBS.
- 2) Video Format: To configure the video resolution for encoding, user can select among 1920*1080i 25, 29.97fps; 1440*1080i 29.97fps; 1280*720p 59.94, 50fps; 720*576i 25fps; 720*480i 29.97fps.
(Attention: the selected video format must be as same as the input video format).
- 3) Video Bit rate: To configure the encoding rate of video (Immediately valid),
- 4) Video Rate Ctl: To configure the control type of TS rate, user can select between CBR(Constant Bit Rate) and VBR(Variable Bit Rate).
- 5) Aspect Ratio: To configure the aspect ratio, user can select between 4x3 and 16x9.

7.2.3 Audio Setup

Here user can configure parameters of audio encoding function, (Attention: Audio2's setting is valid only on 5200EC-32 and 5200EC-42).

- 1) Audio1 Format: To configure the encoding format of audio1, user can select between MPEG1 layer2 and AAC LC.
- 2) Audio1 Bit Rate: To configure the encoding bit rate of audio1. If the value of audio1 format is "MPEG1 layer2", the encoding bit rate of audio1 can be set among 32kbps, 48kbps, 56kbps, 64kbps, 80kbps, 96kbps, 112kbps, 128kbps, 160kbps, 92kbps, 224kbps, 256kbps, 320kbps, 384kbps. If the value of audio1 format is "AAC LC", the encoding bit rate of audio 1 can be set to any value from 128~512kbps.
- 3) Audio 1 Channel Mode: To configure the musicam mode of audio1. User can select between Stereo and Mono. (Attention: If the value of audio1 format is "AAC LC", "Stereo" will be the only choice)
- 4) Audio 1 Level: To configure the volume of audio1, its range is +12dB ~ -17dB. (Attention: positive means amplification, negative means reduction)

- 5) Audio 1 input Source: To configure the input source of audio1, user can select among SDI, HDMI, Analog1 and Analog2.
- 6) Audio 1 SID EMS: To configure the EMB num of SID, user can selected among EMB1, EMB2, EMB3 and EMB4.(Attention: These parameters are not valid unless the value of audio1 input source is “SDI Audio”)
- 7) Audio2 Bit Rate: To configure the encoding bit rate of audio2, user can select among 32kbps, 64kbps, 128kbps, 192kbps, 256kbps and 384kbps.
- 8) Audio2 Channel Mode: To configure the musicam mode of audio1. User can select between Stereo and Mono.
- 9) Audio2 Level: To configure the volume of audio2, its range is +12dB ~ -17dB. (Attention: positive means amplification, negative means reduction)
- 10) Audio2 input Source: To configure the input source of audio2, user can select among SDI, HDMI, Analog1 and Analog2.
- 11) Audio2 SID EMS: To configure the EMB num of SID, user can select among EMB1, EMB2, EMB3 and EMB4. (Attention: These parameters are not valid unless the value of audio1 input source is “SDI Audio”)

7.2.4 Encoder Bit Rate

Here user can configure and monitor the total encoding bit rate, it must be greater than the sum of audio and video bit rate.

Encoder Bit Rate: To configure the total encoding bit rate.

7.2.5 Advanced Setup

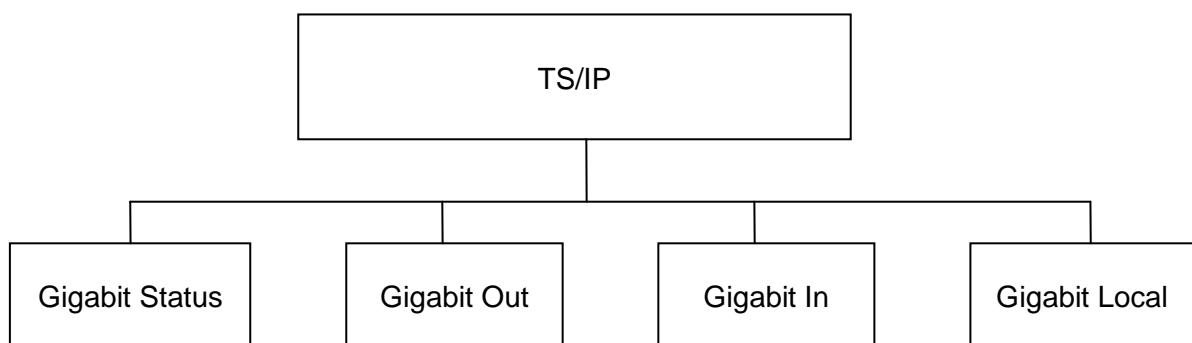
Here user can configure some parameters of PID, resolution scaling and other related information.

- 1) Output PMT PID: To configure the PMT PID number of transport stream, its range is 31~8191.
- 2) Output Video PID: To configure the Video PID number of output transport stream, its range is 31~8191.
- 3) Output Audio1 PID: To configure the Audio PID number of output transport stream, its range is 31~8191.
- 4) Output Service PID: To configure the Service PID number of output transport stream, its range is 0~65536.
- 5) Output PCR PID: To configure the Service PID number of output transport stream, its range is 31~8191.
- 6) Output Service Name: To configure the Service Name of output transport stream.

- 7) Output Audio2 PID: To configure the Audio PID number of output transport stream, its range is 31~8191.
- 8) Audio PTS Offset: To configure the synchronization between audio and video, user can press button “↑”, “↓”, “←”, “→” to adjust the synchronization, then press button “ENTER” to confirm the setting, its range is -400 ~ +400.
- 9) Scale: User can select Enable or Disable to open or close the function of video resolution scaling.
- 10) Scale Horizontal: To configure the width of video scaling, the default value is “720”. (Attention: User has to configure the value according to the actual need. It will cause an abnormal output bit rate after setting an unsuitable value, then user should close the scaling function and reboot the machine.)
- 11) Scale Vertical: To configure the height of video scaling, the default value is “720”.
(Attention: User has to configure the value according to the actual need. It will cause an abnormal output bit rate after setting an unsuitable value, then user should close the scaling function and reboot the machine.)

7.3 TS/IP

Here user can configure and check parameters of TS/IP. It includes 4 submenus. Menu format is shown as below:



7.3.1 Gigabit Status

Here user can check the current status of network connection.

- 1) Disconnect: There is no network connecting to this machine.
- 2) Linked 10M: There is a 10M network connecting to this machine.

- 3) Linked 100M: There is a 100M network connecting to this machine.
- 4) Linked 1000M: There is a 1000M network connection to this machine.

7.3.2 Gigabit Out

Here user can configure parameters for TS/IP out.

- 1) Gigabit Out Switch: User can select Enable or Disable to open or close the TS/IP output function of the gigabit port
- 2) Gigabit Out Status: User can check the output status of the gigabit port, including UDP Packets/s, Column FEC pkts/s and Row FEC pkts/s.
- 3) Protocol: To configure the protocol of TS/IP output, user can select between UDP and RTP.
- 4) TS Pkts Per UDP: To configure the quantity of TS/IP packet under UDP standard, user can select among 1, 2, 3, 4, 5, 6 and 7.
- 5) Time To Live: To configure the maximum quantity of router which TS/IP can reaches. Its range is from 1 to 255. (Attention: If a TS/IP packet has already passed through those routers up to maximum quantity, but still does not arrival the destination, it will be abandoned.)
- 6) Type Of Service: To configure the service type, user can select among Min Delay, Max Reliability, Max Throughput and Normal.
- 7) Uni/Multi Address: To configure the IP address of TS/IP unicast or multicast, IP range for unicast is 1.0.0.1~223.255.255.254. IP range for multicast is 224.0.0.0~239.255.255.255.
- 8) Uni/Multi UDP Port: To configure the port number of UDP output, its range is 0~65535.
- 9) ProMPEG FEC Switch: User can select Enable or Disable to open or close the function of FEC(Forward Error Correction)
- 10) Column FEC UDP Port: To configure the output port number of UDP FEC column, its range is 0~65535.
- 11) Row FEC UDP Port: To configure the output port number of UDP FEC row, its range is 0~65535.
- 12) ProMPEG FEC Mode: To configure the mode of FEC, user can select among 1D, 5*5; 1D,5*20; 2D,5*5; 2D,5*20 and 2D,10*10.
- 13) FEC Alignment: To configure the alignment of FEC, user can select between Annex A and Annex B.

7.3.3 Gigabit In

Here user can configure parameters of TS/IP in.

- 1) Gigabit In Status: User can check reception status of gigabit port, including Gigabit In Status, Gigabit In Protocol, Column FEC, Row FEC, Pkts Per UDP Frames, Received TS Frames, Fixed RTP Frames and Total Lost Frames
- 2) Uni/Multi Address: To configure and check the IP address for unicast or multicast. IP address

for unicast is 1.0.0.1~223.255.255.254, IP address for multicast is 224.0.0.0~239.255.255.255.

- 3) Uni/Multi UDP Port: To configure the port number of UDP input, its range is 0~65535.
- 4) Column FEC UDP Port: To configure the input port number of FEC UDP column, its range is 0~65535.
- 5) Row FEC UDP Port: To configure the input port number of FEC UDP row, its range is 0~65535.
- 6) TS Clock Recovery: To configure the recovery mode of TS Clock, user can select between Auto and Fixed Rate.
- 7) TS Bit Rate: To configure the output bit rate of TS stream. (Attention: It is invalid unless the value of TS Click Recovery is “Fixed Rate”)

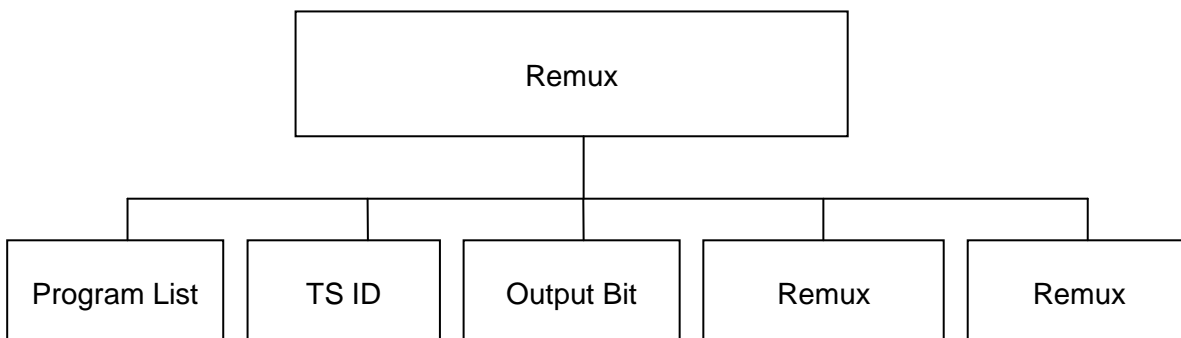
7.3.4 Gigabit Local

Here user can configure local parameters of TS/IP board.

- 1) Gigabit Address: To configure the physical IP address of TS/IP board.
- 2) Gigabit Subnet Mask: To configure the subnet mask of TS/IP board.
- 3) Gigabit MAC Address: To check the MAC address of TS/IP board.
- 4) Gateway IP Address: To configure the gateway address of TS/IP board.
- 5) Gateway MAC Address: To configure the MAC address of target gateway. The default value is ff.ff.ff.ff.ff.

7.4 Remux

Here user can configure and check parameters of TS re-multiplexing. It includes 5 submenus. Menu format is shown as below.



7.4.1 Program List

Here user can check all programs from ASI input and Encoder. Users can also choose programs they want to be re-multiplexed.

- 1) ASI Input: To choose programs which user wants to be re-multiplexed. those programs from ASI input will be listed, user can push button “ENTER” to mark the programs with a symbol

“*”, all the programs marked with “*” will be re-multiplexed. (Attention: Programs from IP input will be listed while the TS/IP board is working under input status)

2) Encoder: To choose programs which user wants to be re-multiplexed. Those programs from encoder itself will be listed, user can push button “ENTER” to mark the programs with a symbol “*”, all the programs marked with “*” will be re-multiplexed.

7.4.2 TS ID

Here user can configure and check the ID of TS stream.

TS ID: To configure and check the ID of TS stream. (Attention: The displayed TS ID is in accordance with ASI input or TS/IP input)

7.4.3 Output Bit Rate

Here user can configure the total bit rate of output TS stream.

Output Bit Rate: To configure the total bit rate of output TS stream.

7.4.4 Remux

Here user can submit the changed parameters for re-multiplexing function.

Remux: To submit the changed parameters for re-multiplexing. If there are some parameters or programs changing while the re-multiplexing function is running, user can re-submit these changes to make them valid.

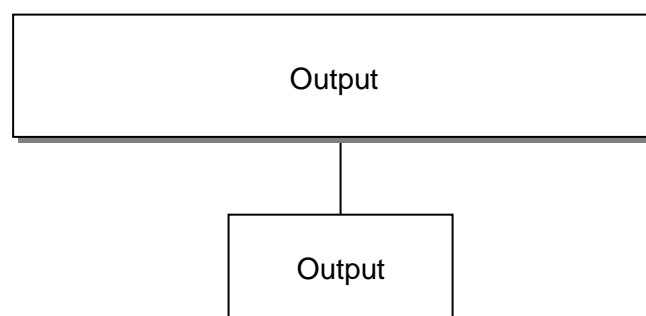
7.4.5 Remux Source

Here user can configure the source of re-multiplexing function.

Remux Source: To configure the source of re-multiplexing function. User can select between ASI and TS/IP.

7.5 Output

Here user can configure the output source. It includes 1 submenu. Menu format is shown as below:

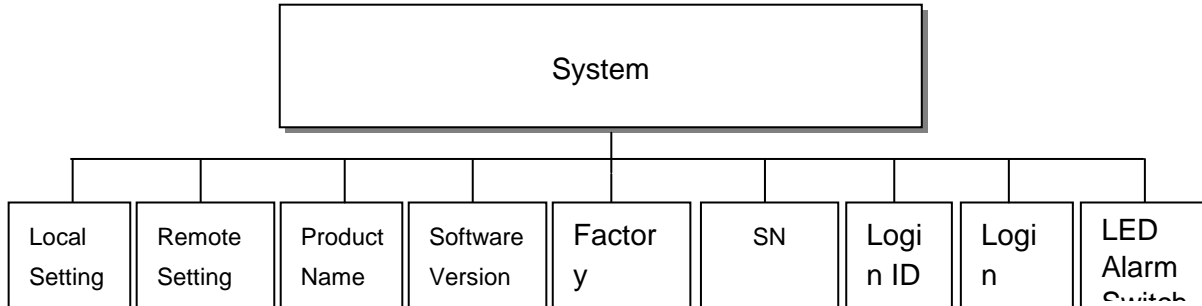


Output Source: To configure the source of output TS, user can select among Encode, Remux, ASI Input and TS/IP input.

7.6 System

Here user can configure and check basic parameters of the machine, It has 9 sub-menus.

Menu format is shown as below:



7.6.1 Local Setting

Here user can configure parameters of local network connection.

- 1) IP Address: To configure the IP address of local network
- 2) Network Mask: To configure the mask of local network
- 3) Gateway: To configure the gateway address of local network
- 4) MAC Address: User can check the MAC address on LCD displayer

7.6.2 Remote Setting

Here user can configure the trap IP to get the alarm information when the machine is working abnormally.

Remote Setting->TRAP IP: To configure the target IP address of trap alarm. Alarms will be sent to the host with trap IP while the machine is working abnormally

7.6.3 Product Name

Here user can configure the name of the machine.

Product Name: To configure the name of the machine, user can assign the name arbitrarily.

7.6.4 Software Version

Here user can check the current software version of the machine's chip.

Software Version: To check the current software version of the machine's chip. User can also check the detail of software version by press button "ENTER".

7.6.5 Factory Setting

Here user can restore the machine to factory setting.

Factory Settings: To restore the machine to factory setting. The machine will reboot

automatically and all parameters will restore to default value.

7.6.6 SN

Here user can check the SN (serial number) of the machine.

SN: To check the machine's SN (serial number). (Attention: SN cannot be changed by user)

7.6.7 Login ID

Here user can configure and check the login ID for using web control.

Login ID: To configure and check the login ID. The default value is "root", user can change it on will.

7.6.8 Login Passwd

Here user can configure and check the login password for using web control.

Login Passwd: To configure and check the login password. The default value is "12345", user can change it on will.

7.6.9 LED Alarm Switch

Here user can configure the alarm of ASI and TS/IP.

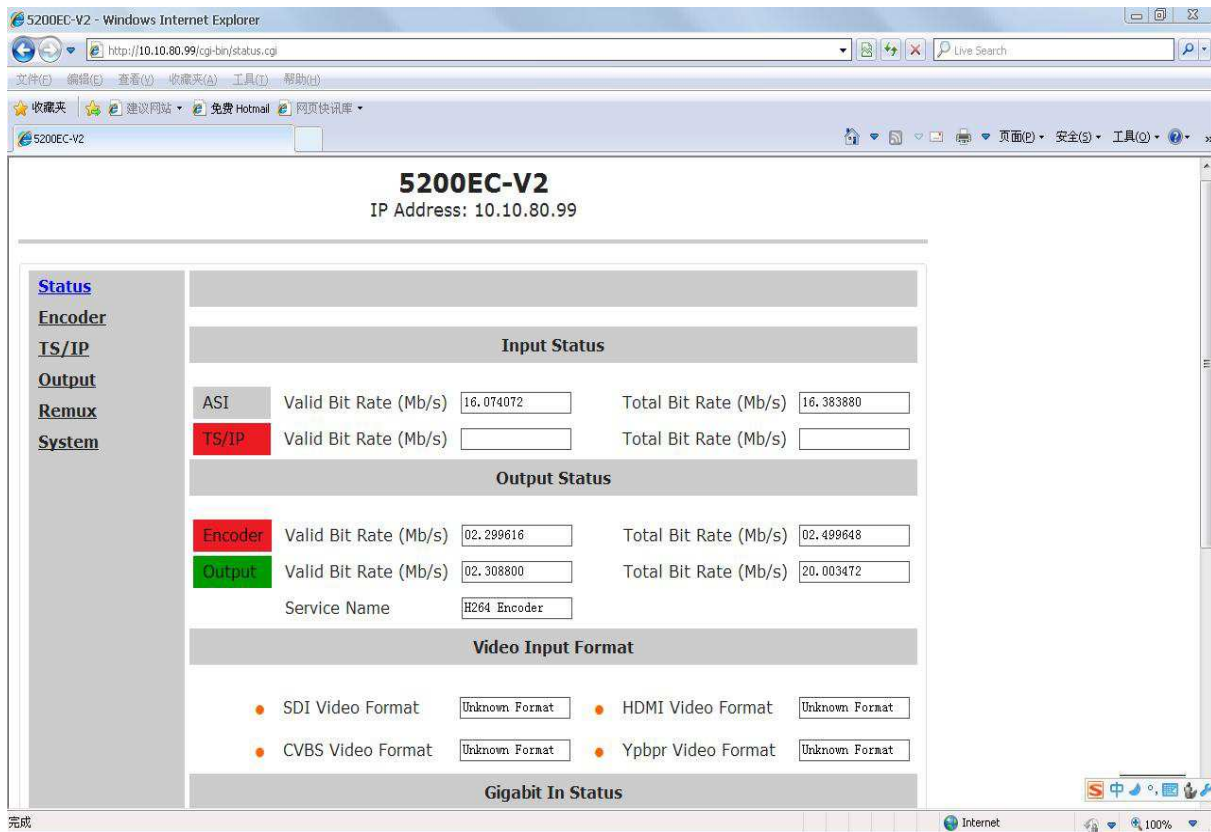
- 1) ASI Alarm: To configure the alarm of ASI. User can select "ON" or "OFF" to open or close the alarm function of ASI. If select "ON", the alarm light on machine's front panel will turn to red while ASI is working abnormally.
- 2) TS/IP Alarm: To configure the alarm of TS/IP. User can select "ON" or "OFF" to open or close the alarm function of ASI. If select "ON", the alarm light on machine's front panel will turn to red while TS/IP is working abnormally.

8. Web Control

DCH-5200EC can be controlled by WEB. User can type IP address of DCH-5200EC in browser. It will show login pop-up. The default user name and password are “root” and “12345”. If you forget this username and password, you can use front panel button to check and change it.

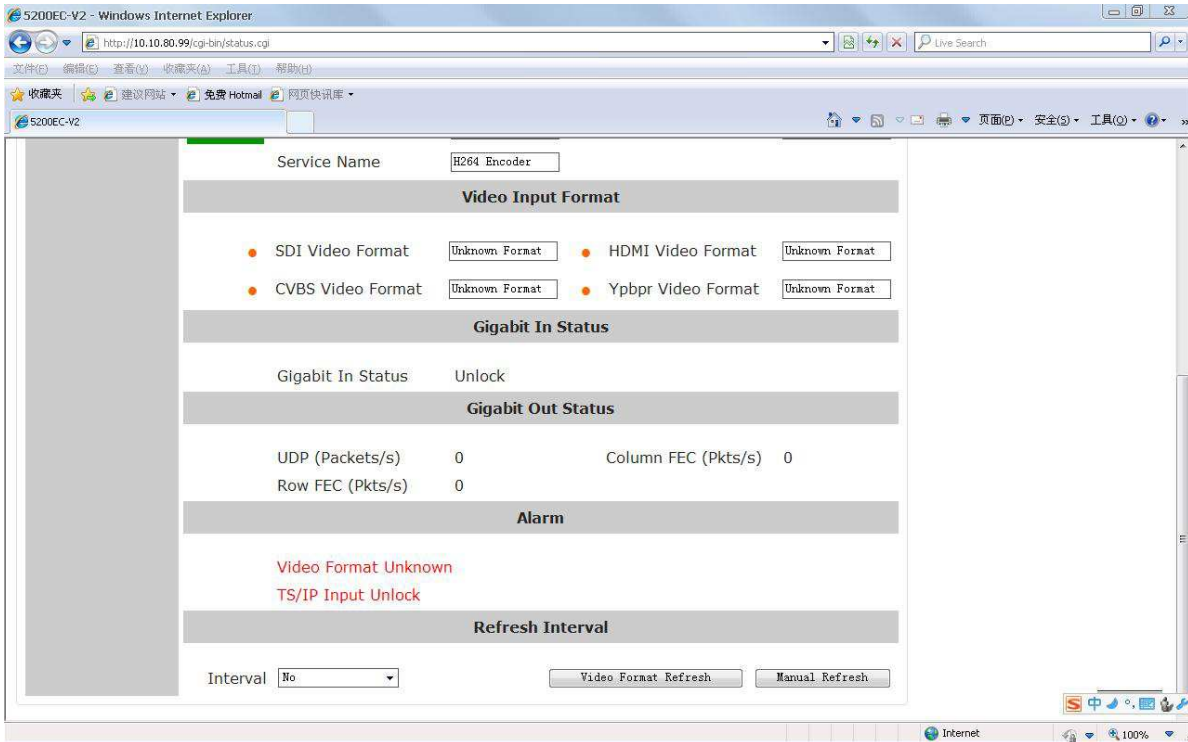
8.1 Status Page

User can check some status including Input Status, Output Status, Video Input Format, Gigabit In Status, Gigabit Out Status, Alarm, Refresh Interval. User can set refresh interval time to refresh status information automatically. “Manual Refresh” button is used to refresh status manually. Also user can click button "Video Format Refresh" to refresh video format manually. As it shown in figure below.



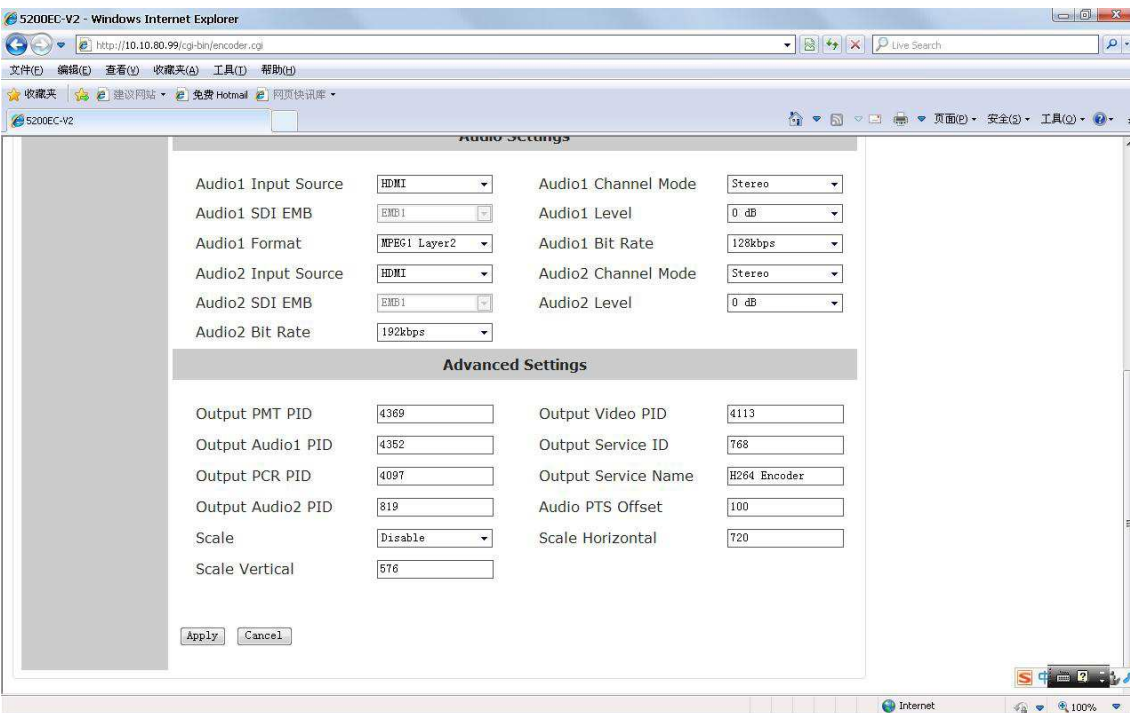
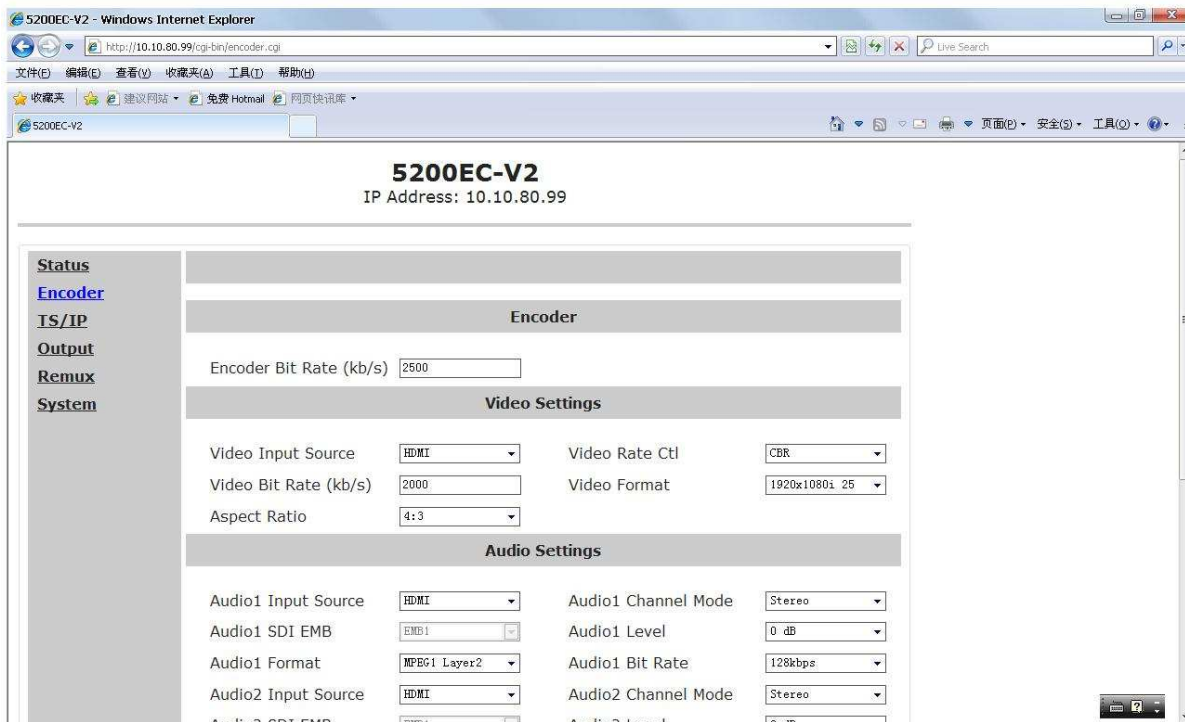
The screenshot shows a web browser window displaying the status page for the 5200EC-V2 device. The page title is "5200EC-V2" and the IP address is "10.10.80.99". The interface is organized into several sections:

- Status**: A navigation menu on the left side.
- Encoder**: A section containing sub-sections for "Input Status" and "Output Status".
- Input Status**: Displays bit rate information for ASI and TS/IP. ASI shows a valid bit rate of 16.074072 Mb/s and a total bit rate of 16.383880 Mb/s. TS/IP shows empty fields for valid and total bit rates.
- Output Status**: Displays bit rate information for Encoder and Output. Encoder shows a valid bit rate of 02.299616 Mb/s and a total bit rate of 02.499648 Mb/s. Output shows a valid bit rate of 02.308800 Mb/s and a total bit rate of 20.003472 Mb/s. A "Service Name" field is set to "H264 Encoder".
- Video Input Format**: Displays four video format options, each with a radio button and a dropdown menu: SDI Video Format (Unknown Format), HDMI Video Format (Unknown Format), CVBS Video Format (Unknown Format), and Ypbpr Video Format (Unknown Format).
- Gigabit In Status**: A section at the bottom of the main content area.



8.2 Encoder Page

User can configure and monitor all the parameters of encoding function. This page includes Encoder, Video Settings, Audio Settings and Advanced Settings. You can click button "Apply" to submit your configuration or click button "cancel" to undo your configuration. As it shown in 2 figures below.

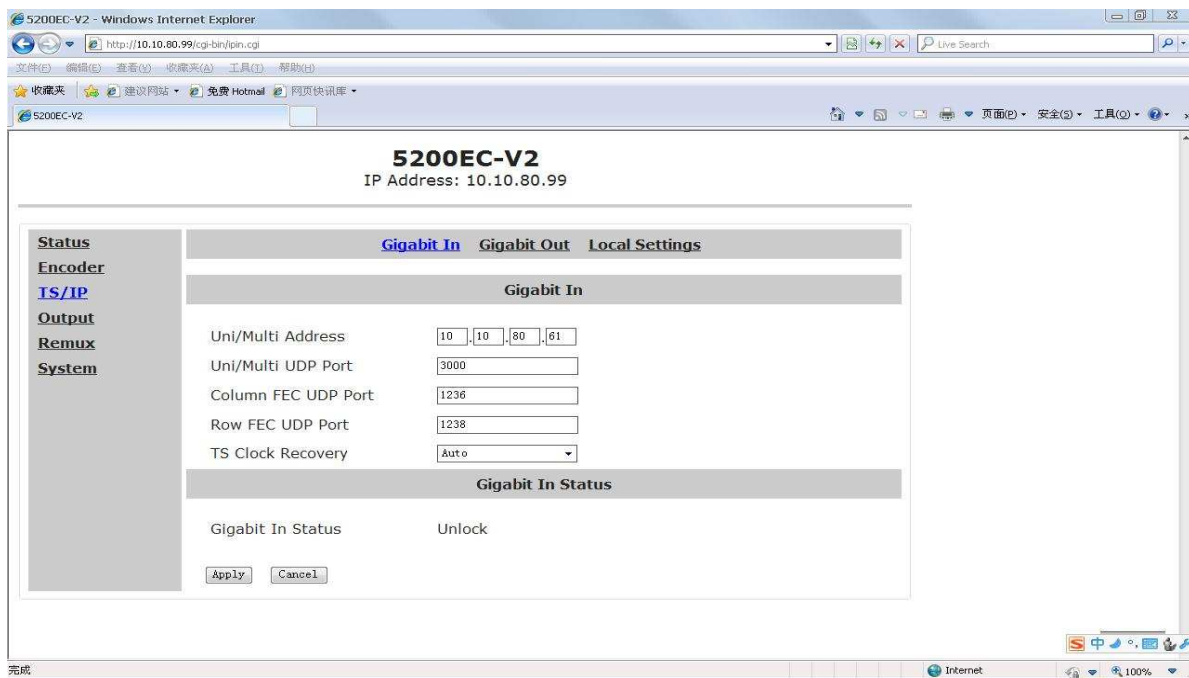


8.3 TS / IP Page

User can configure and monitor all the parameters of TS over IP function. Its subpages include Gigabit In, Gigabit Out and Local Settings. User can click button "Apply" to submit your configuration or click button "cancel" to undo your configuration,

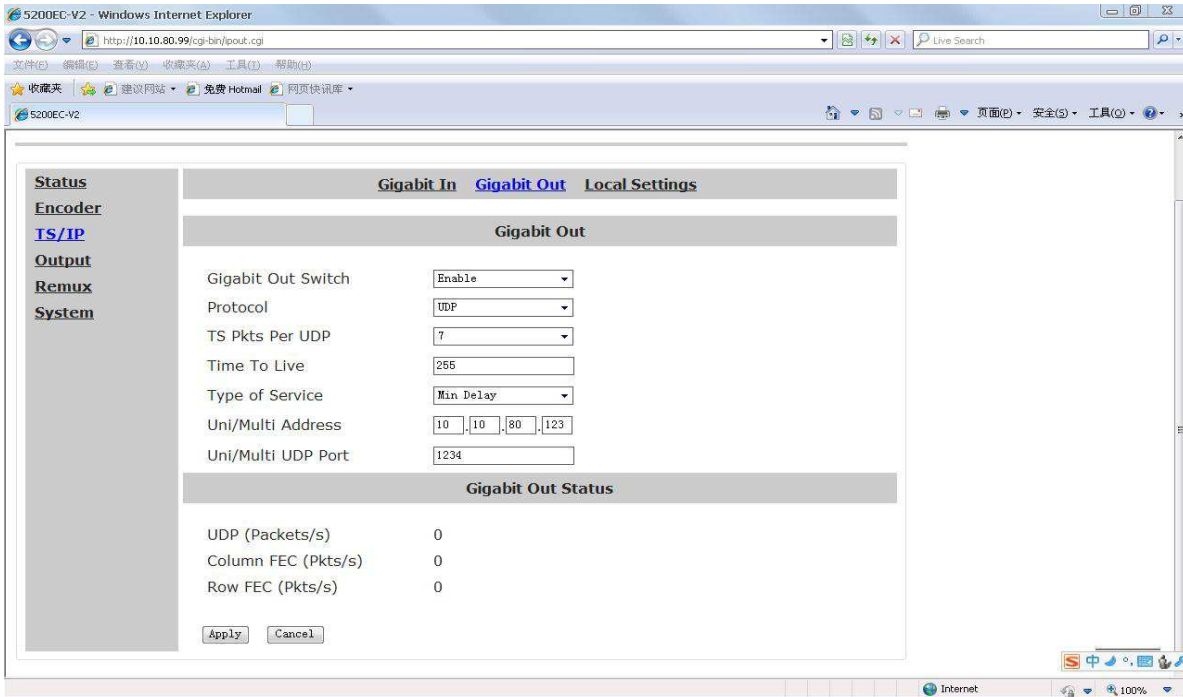
8.3.1 Gigabit In

User can configure and monitor the parameters of TS over IP in. This page includes Gigabit In and Gigabit In Status. As it shown in figure below.



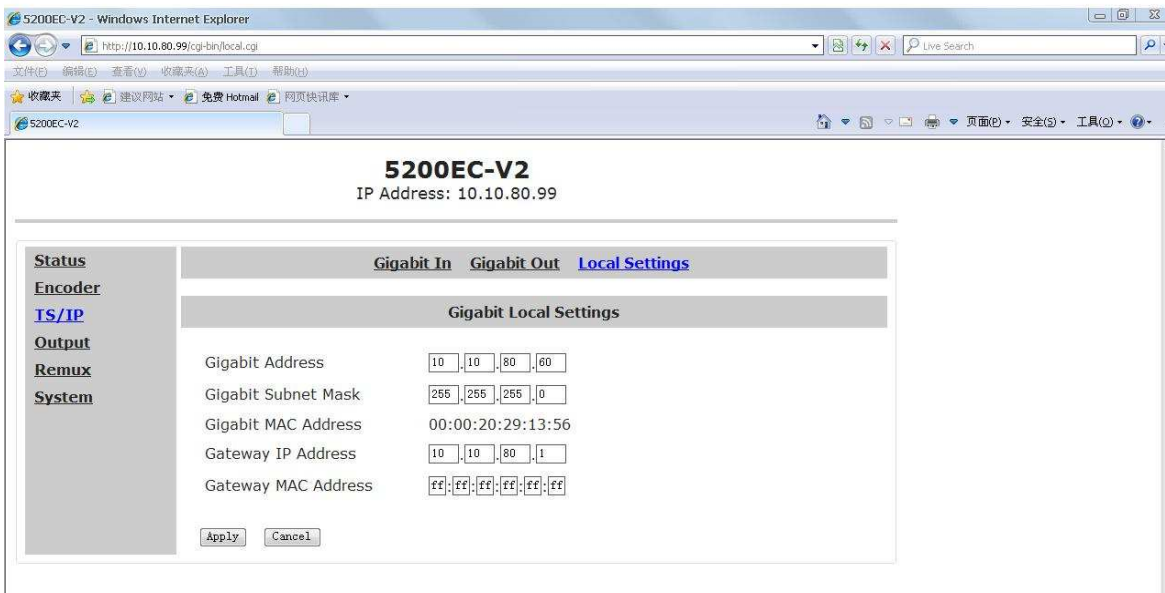
8.3.2 Gigabit Out

User can configure and monitor the parameters of TS over IP out. This page includes Gigabit Out and Gigabit Out Status. As it shown in figure below.



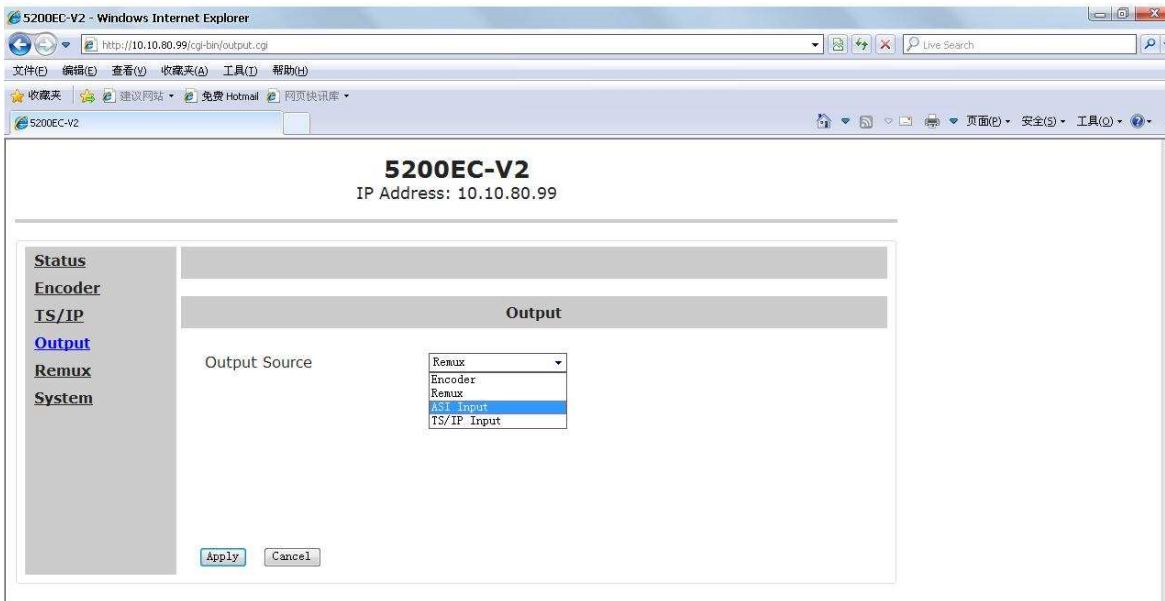
8.3.3 Local Settings

User can configure and monitor the parameters of TS/IP board. As it shown in figure below.



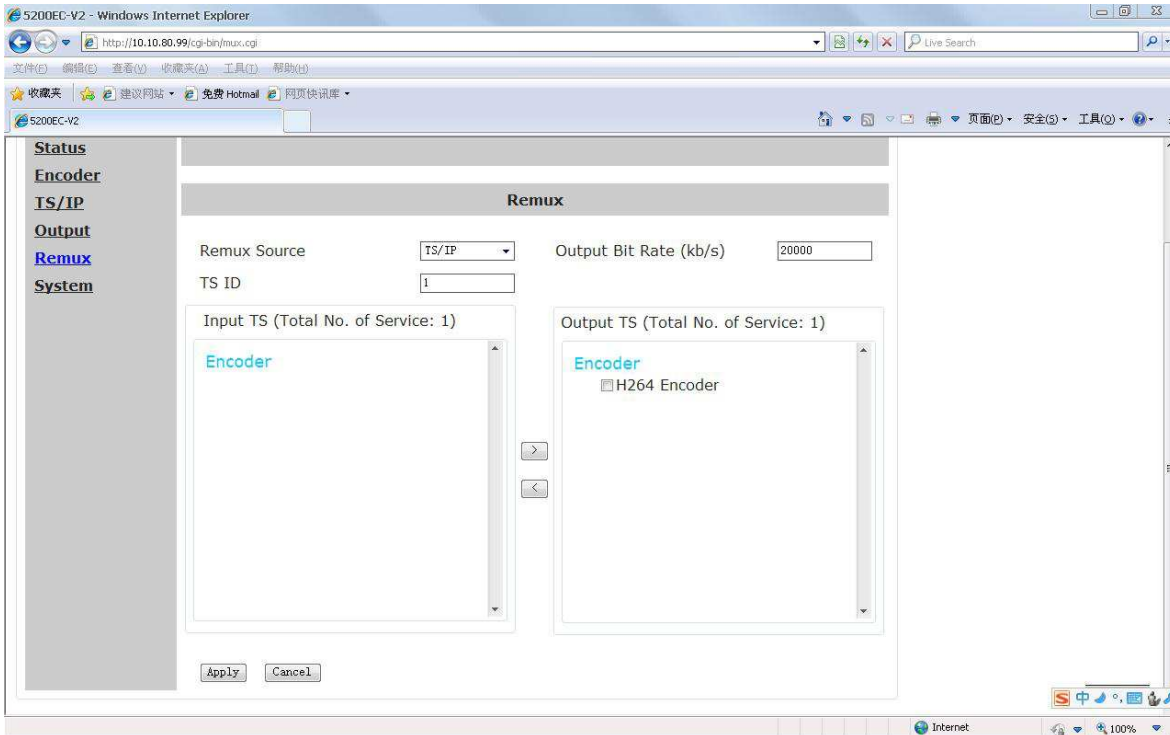
8.4 Output Page

User can configure and monitor the source of TS stream output. User can select output source among Encoder, Remux, ASI Input and TS/IP Input. Click button "Apply" to submit your configuration or click button "cancel" to undo your configuration. As it shown in figure below.



8.5 Remux Page

User can configure and monitor the parameters of multiplexing function. User can choose programs from ASI or TS/IP to multiplex with programs from encoder. Click button "Apply" to submit your configuration or click button "cancel" to undo your configuration. AS it shown in figure below.

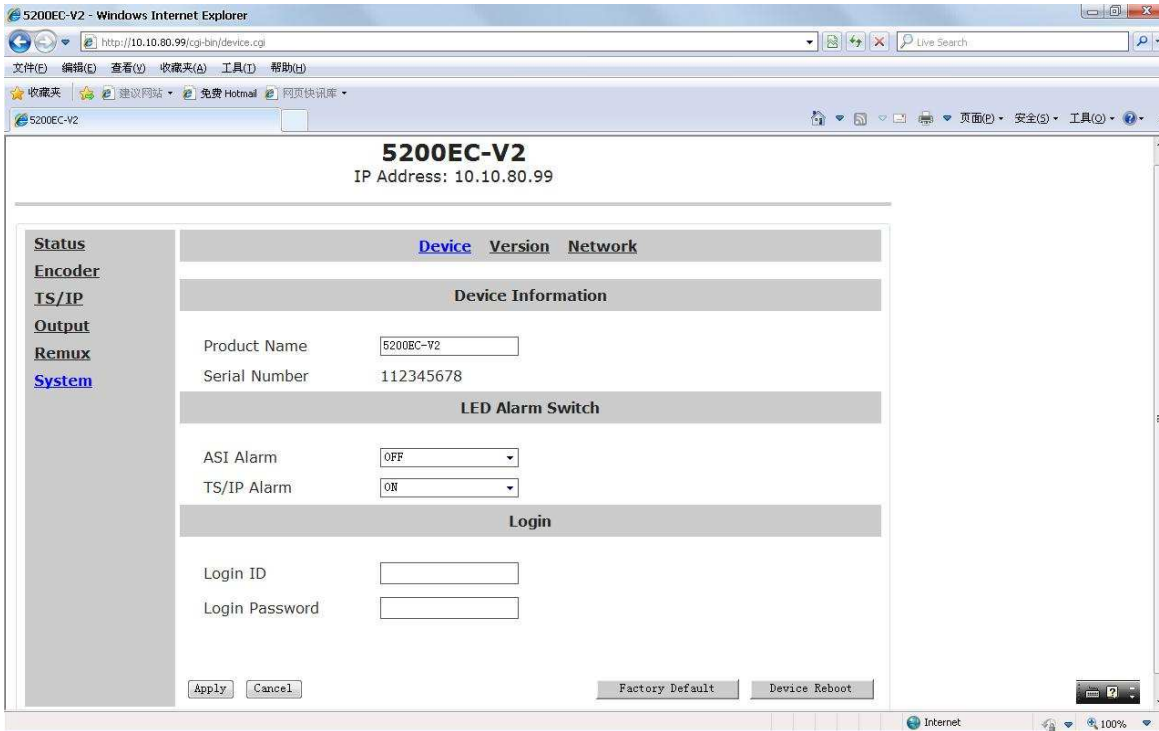


8.6 System Page

User can configure and monitor the basic parameters of the machine. Its subpages include Device, Version and Network.

8.6.1 Device

User can set and monitor some basic information of the machine. Its subpages include Device, Version and Network. The machine's name can be assigned manually, user can select "OFF" or "On" to close or open the alarm of ASI and TS/IP, also the login ID and password can be changed manually. Click button "Apply" to submit your configuration or click button "cancel" to undo your configuration. As it shown in figure below.



8.6.2 Version

User can check some version information of the machine. As it shown in figure below.



8.6.3 Network

User can configure and check local network information. User can assign the IP address for web control. The trap IP address is used to help user receive alarm information while the machine is working abnormally. Click button "Apply" to submit your configuration or click button "cancel" to undo your configuration. As it shown in figure below.



9. Installation

- Fix the device in the standard 19" rack.
- Connect the power cable. Turn on the device and wait for 8 to 10 seconds, while the device will complete self inspection and configuration. The POWER Indicator LED will always light on during working. If not use the device, please pull out the AC plug. If user wants to reboot device, please leave it for at least 5 seconds after shutting it down.

10. Accessories

CD-ROM

1PC



Power cable	1PC
ASI cable	1PC
Balance audio to RCA cable	2PC
BNC to RCA Adapter	4PC
Certificate of quality /Guarantee card	1PC