

# **NB100U Portable Encoder**

## **User's Manual**

V1.00-N

# Preface

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## About This Manual

This manual provides introductions to users about how to operate the device correctly. The content includes introduction to product installation, product characteristics and product settings, etc.

It is highly suggested users to go through this document before actually operating the device.

## Intended Readers

This manual is suggested to be studied by the following readers:

- Technical Service Engineer
- Maintenance Engineer
- Test Engineer
- Sales Engineer

## Important

- Avoid personal injury and product damage! Do not proceed beyond any symbol until you fully understand the indicated conditions.  You may find this symbol in the document that accompanies this product. This symbol indicates important operating or maintenance instructions.
- Please use the cable of good quality and make sure the connector is in good condition.
- Please do not use the power supply that doesn't match the requirement.
- Please do not open the machine cover.
- Specifications and functions may be changed for improvement without notice in advance.



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# Notices

## ● Trademark Acknowledgments

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## Safety Instructions



This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.

## Electric Shock Hazard

This equipment meets applicable safety standards. Refer to this equipment's Identification label or contact factory for details about regulatory compliance approvals.



### **WARNING:**

**To reduce risk of electric shock, perform only the instructions that are included in the operating instructions. Refer all servicing and installation to qualified service personnel only.**

Electric shock can cause personal injury or even death. Avoid direct contact with dangerous voltages at all times. The protective ground connection, where provided, is essential to safe operation and must be verified before connecting the power supply.

Know the following safety warnings and guidelines:

- Only trained and qualified personnel should be allowed to install, replace, or service this equipment.
- Only qualified service personnel are allowed to remove chassis covers and access any of the components inside the chassis.
- No user-serviceable parts inside. Do not open.

## Important Safety Instructions

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



**WARNING:**

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

**Revision History**

Date	Version	Description	Author
11/22/2017	1.00	First Draft	Zita

## Contents

1 CHAPTER1 OVERVIEW .....	9
1.1 Introduction .....	9
1.2 Architecture.....	9
Front Panel .....	9
Rear Panel .....	10
2 CHAPTER2 INSTALLATION.....	10
2.1 Installation Procedure .....	10
2.2 Preparation before Installation .....	11
2.3 Equipment Wiring and Connection.....	11
2.3.1 Power Connection .....	11
2.3.2 DC Power Connection .....	11
2.3.3 Connection Setup for Web Management.....	11
2.3.4 Connection Setup for HDMI/CVBS/SDI signal input.....	12
3 CHAPTER3 OPERATION GUIDE .....	12
3.1 Operating the Front Panel Interface.....	12
3.1.1 Powering Up and Initialization .....	12
3.1.2Front Panel Menu Structure.....	13
3.2 Operating the WEB Interface .....	14
3.2.1 Access Interface.....	14

3.2.2 Main Interface .....	15
3.2.3 Live Mode.....	16
3.2.4 Playback mode .....	24
3.2.5 Recording Mode.....	27
3.2.6 System .....	29

# 1 CHAPTER1 OVERVIEW

## 1.1 Introduction

StreamCast NB100U is a highly effective encoder for video and audio processing which supports HDMI/SDI/CVBS standard input source and output as RTSP/HLS/UDP/RTP/RTMP Ethernet protocol. The NB100U supports one channel HD/SD live encoding, playback, recording and IP streaming out or modulating out. It also supports Closed Caption.

## 1.2 Architecture

### Front Panel



1. **Power status indicator:** This LED light is turned on when the StreamCast is power on.

(Signal) **Lock status indicator:** This LED light is turns to green when a channel is locked. Otherwise the light turns to red.

2. **Display screen:** This LCD screen can show the management IP address, work mode, Input stream standard, output protocol, running status and etc.

3. **Reset:** This button is for defaulting factory setting.

4. **USB port:** This port is used for disk inserting under Playback and Recording mode

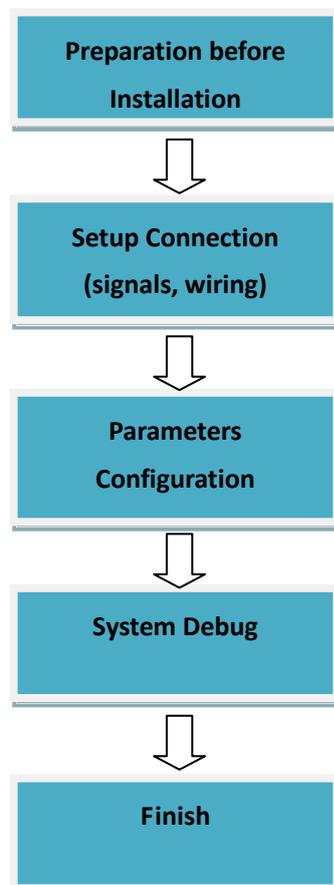
## Rear Panel



1. HDMI /AV / YPbPr / SDI IN port
2. RF OUT port
3. RJ45-- management connection port
4. DC —DC Power connection

## 2 CHAPTER2 INSTALLATION

### 2.1 Installation Procedure



## 2.2 Preparation before Installation

Before installation, the installation personnel should read through and confirm the followings:

- Go through this user manual.
- Has the knowledge of digital television system.
- Has defined the sources, racks allocation, and set-up plan system wiring.
- Knows how to operate this unit and parameters configuration.
- Go through related engineering design documents about the system.

## 2.3 Equipment Wiring and Connection

To avoid electric shock and damage to the equipment, before setting up the wiring connection, please power off the equipment and all other connected external devices. Powering on the equipment only after all the wiring connection is completed.

### 2.3.1 Power Connection

Use the proper power connections is vital to the safe operation of the portable encoder. Only use the supplied power connector or one with equal specifications. **Never** use the power connector whose specification is different from we supplied. This could cause damage to the Portable Encoder.

### 2.3.2 DC Power Connection

The DC power supply option allows the NB100U to be powered by a separate supply to supply **5V/2A** power to the DC port. To hook up the power use the following steps:

1. Locate the DC power cord which is included with the NB100U.
2. Plug the female end of the power cord (end with no prongs) into the back of the unit.
3. Connect the power cord to the power supply or power band to get the 5V/2A electricity.

### 2.3.3 Connection Setup for Web Management

Connect to NB100U Management port with a network cable and set up a management network with the management PC.

### 2.3.4 Connection Setup for HDMI/CVBS/SDI signal input

Connect HDMI/CVBS/SDI signal to NB100U “HDMI IN”/“AV IN”/ “YPbPr IN”/“SDI IN” port with a HDMI /AV/YPbPr/SDI cable.

## 3 CHAPTER3 OPERATION GUIDE

### 3.1 Operating the Front Panel Interface

#### 3.1.1 Powering Up and Initialization

Before powering-up the device, make sure that all cabling is correctly connected (refer to chapter 2.3 of this manual). The device is correctly connected to the power inlet.

Connect the Power port and the unit is powered up and starts the initialization.

The LCD screen is lighted up, and display information as following:



Press OK Button To Choose Mode.

There will be 3 seconds leaving for you to choose which mode you'll start. After 3 seconds the portable encoder will start the last mode automatically.

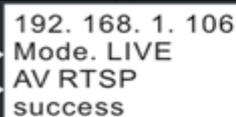
If you press **OK** button in the front panel, and display information as following:



Up Enter BackUp  
Dn Enter Normal

Press arrow **Up** or **Down** in the front panel to choose start mode.

The initialization takes about 30 seconds to complete, and then the LCD screen display as following:



192. 168. 1. 106  
Mode. LIVE  
AV RTSP  
success

**Note:** If the unit fails to initialize and hangs at the “booting” stage, switching off the device and then powering up again may help. If the device still fails to initialize, please contact your service representative for help.

### 3.1.2 Front Panel Menu Structure

1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	3 <sup>rd</sup> Layer	4 <sup>th</sup> Layer				
Status	Live Playing/ Paused						
	Playback Playing/Paused						
	Record Playing/ Paused						
	Setting		Work Mode	live	Input	Auto/ HDMI/YPbPr/ AV/SDI	
					Output	UDP/RTP/RTSP/ HLS Live/RTMP	
					IP	x.x.x.x	
					Port	xxxxx	
				Playback	Mode	Sequence Crole Single Crole List Crole Random	
					IP	x.x.x.x	
					Port	xxxxx	
					Recorded	Recording Input	Auto/ HDMI/YPbPr/ AV/SDI
			System	Network		Mode	DHCP Enable/Disable DNS Static/ Dynamic
						Host IP/Gateway/ Mask/DNS	x.x.x.x
				AP	Wi-Fi ON/OFF		
				Version	SW/FW/HW version		

			Recovery	Yes/NO	
			Reboot	Yes/NO	

Press **OK** to apply, press **MENU** to back to upper layer, press **direction arrows** to move to other items.

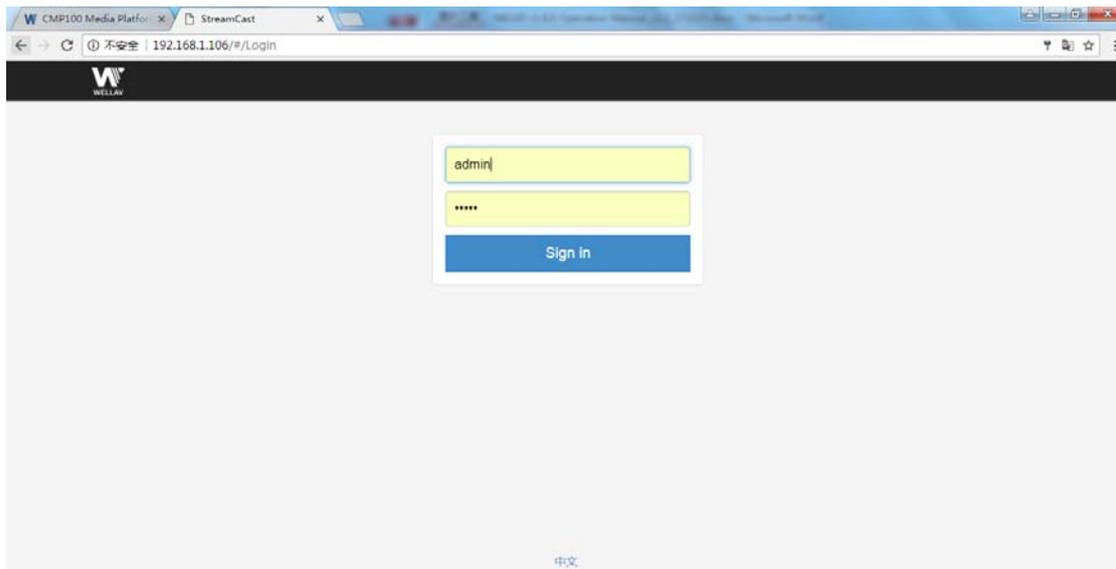
## 3.2 Operating the WEB Interface

### 3.2.1 Access Interface

#### ➤ PC Web-GUI

NB100U can be accessed and configured via web GUI. The accessing instruction is as the followings:

1. Connect the “RJ45” port of the NB100U to the management PC/server directly or via a network switch.
2. The **NB100U default IP address is 192.168.1.106**. Please modify the management server’s IP address or NB100U IP address to be in the same IP segment. To ensure that the equipment is smoothly connected to the network.
3. Open any web browser (e.g. Mozilla v30 or above, IE8.0 or above, safari, chrome v42 or above and etc.), input the equipment’s IP address in format: **http://xxx.xxx.xxx.xxx** (xxx.xxx.xxx.xxx refers to NB100U’s IP address) and press ENTER button to confirm. The browser will attempt to connect to the device. If succeed, a login page will appear. (see PIC-3.2.1)



Pic-3.2.1

The default login info shows as below. Click **Sign in** button after input the correct user name and password.

User Name: admin

Password: admin.

#### ➤ **Wireless connection to device**

Please refer to **3.3.6 System Wi-Fi Hotspot**.

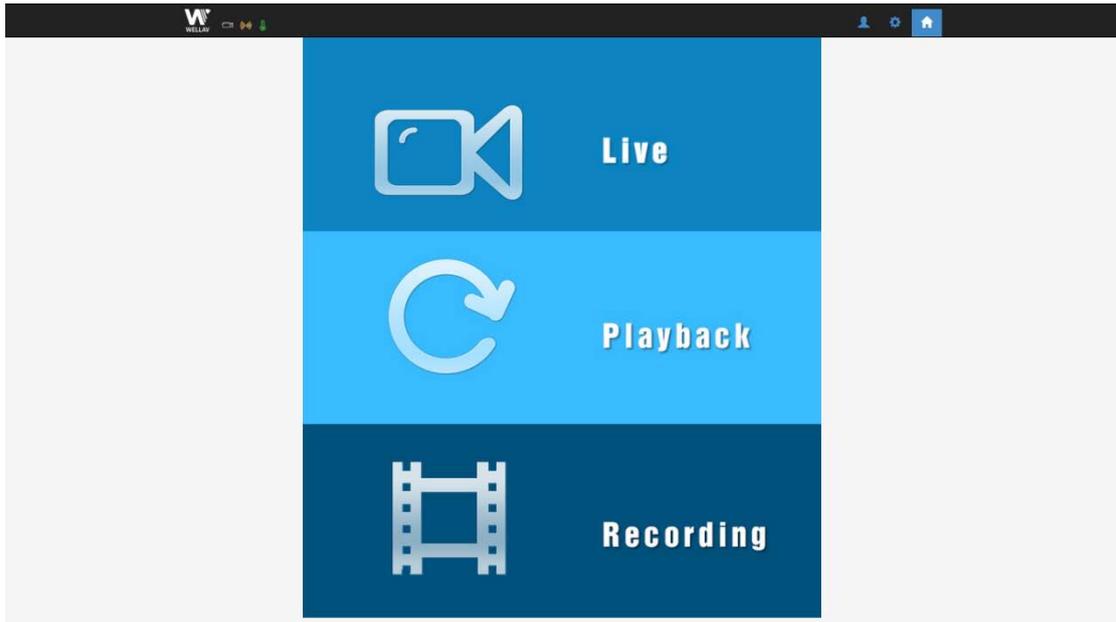
### **3.2.2 Main Interface**

NB100U provides 3 working modes: Live, Playback and Recording. Click to enter desire working mode. (PIC-3.2.2)

**Live Mode:** to encode a live channel via HDMI/SDI/CVBS input and IP output.

**Playback Mode:** to play the recorded TS from external USB disk.

**Recording Mode:** to record the encoded TS and store it to the external USB disk

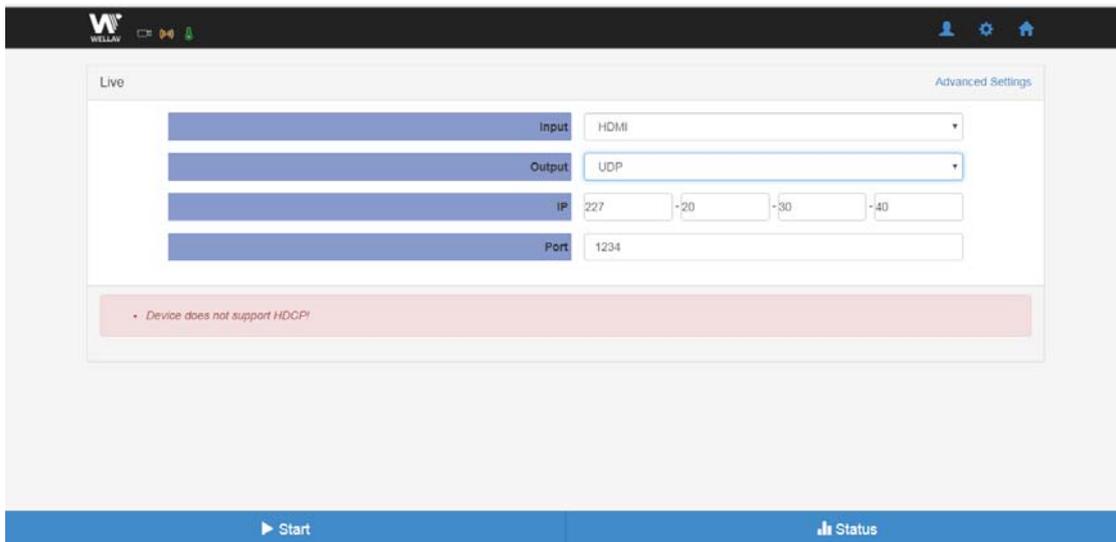


Pic-3.2.2

### 3.2.3 Live Mode

To set the parameters for HD/SD channels encoding, as well as the broadcasting mode and parameters.

#### Basic Setting



Pic-3.2.3-1

This interface provides the main parameters of encoding and broadcasting. Please check and set the parameter according to the following items:

- **Input:** *HDMI/SDI/YPbPr/AV/Auto* source can be selected

- **Output:** support *UDP/RTSP/HLS/RTP/RTMP/Modulation* protocol
- **IP/Port:** you can configure the IP streaming output address

➤ **UDP Setting**

User can set *IP/Port* parameter.

Live		Advanced Settings
Input	HDMI	
Output	UDP	
IP	227	-20 -30 -40
Port	1234	

Pic-3.2.3-2

➤ **RTSP Setting**

User can view *RTSP URL (Ethernet)/RTSP URL (Wireless)* parameter.

Live		Advanced Settings
Input	HDMI	
Output	RTSP	
RTSP URL(Ethernet)	rtsp://192.168.1.106:8554/live	
RTSP URL(Wireless)	rtsp://192.168.48.2:8554/live	

Pic-3.2.3-3

➤ **HLS Setting**

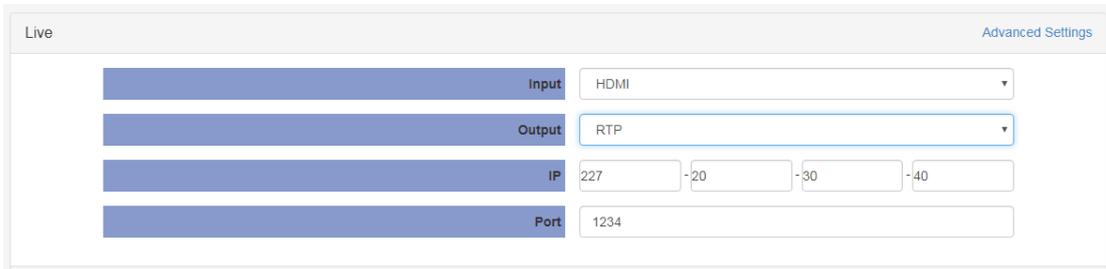
User can view *HLS URL (Ethernet)/ HLS URL (Wireless)* parameter.

Live		Advanced Settings
Input	HDMI	
Output	HLS	
HLS URL(Ethernet)	http://192.168.1.106/video/live.m3u8	
HLS URL(Wireless)	http://192.168.48.2/video/live.m3u8	

Pic-3.2.3-4

➤ **RTP Setting**

User can set **RTP IP/Port** parameter.



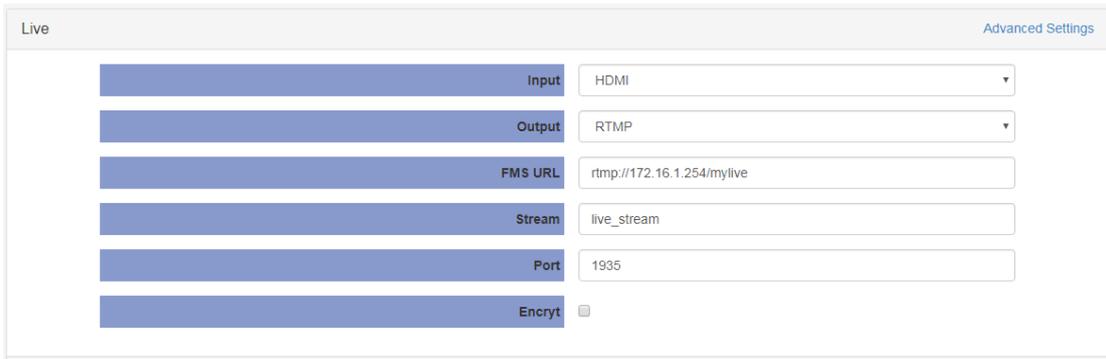
The screenshot shows the 'Live' settings panel with 'Advanced Settings' visible. The 'Output' is set to 'RTP'. The 'IP' field is split into four segments: 227, -20, -30, and -40. The 'Port' is set to 1234.

Parameter	Value
Input	HDMI
Output	RTP
IP	227 -20 -30 -40
Port	1234

Pic-3.2.3-5

➤ **RTMP Setting**

User can set RTMP **FMS URL/Stream/Port/Encrypt** parameter.



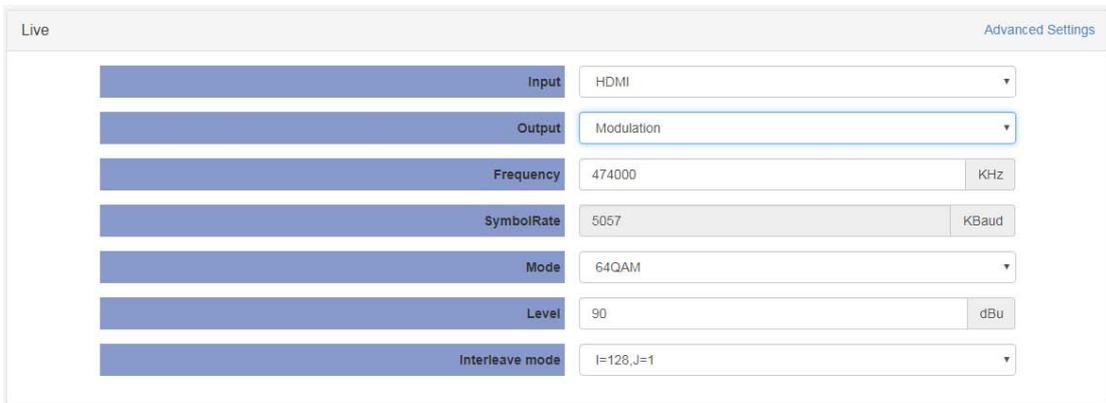
The screenshot shows the 'Live' settings panel with 'Advanced Settings' visible. The 'Output' is set to 'RTMP'. The 'FMS URL' is 'rtmp://172.16.1.254/mylive', 'Stream' is 'live\_stream', and 'Port' is '1935'. The 'Encrypt' checkbox is unchecked.

Parameter	Value
Input	HDMI
Output	RTMP
FMS URL	rtmp://172.16.1.254/mylive
Stream	live_stream
Port	1935
Encrypt	<input type="checkbox"/>

Pic-3.2.3-6

➤ **Modulation Setting**

QAM Modulation is custom-made feature with additional hardware.



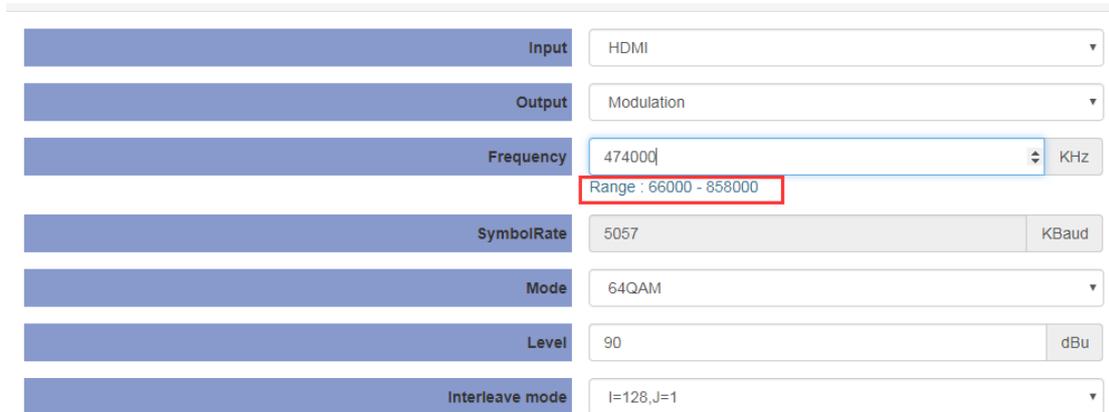
The screenshot shows the 'Live' settings panel with 'Advanced Settings' visible. The 'Output' is set to 'Modulation'. The 'Frequency' is 474000 KHz, 'SymbolRate' is 5057 KBaud, 'Mode' is 64QAM, 'Level' is 90 dBu, and 'Interleave mode' is I=128, J=1.

Parameter	Value
Input	HDMI
Output	Modulation
Frequency	474000 KHz
SymbolRate	5057 KBaud
Mode	64QAM
Level	90 dBu
Interleave mode	I=128, J=1

Pic-3.2.3-7

User can set **Frequency** from 66000 to 858000 KHz.

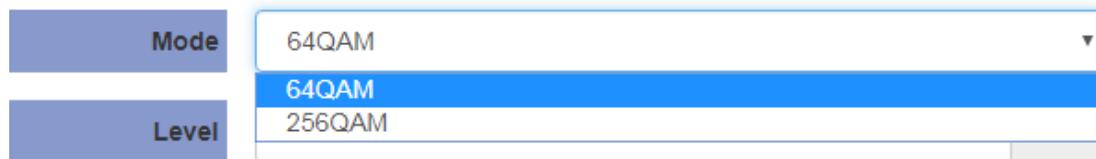
**Symbol Rate** is fixed in **5057**(in 64QAM Mode) and **5360**(in 256QAM Mode) KBaud.



Input	HDMI
Output	Modulation
Frequency	474000 KHz Range : 66000 - 858000
SymbolRate	5057 KBaud
Mode	64QAM
Level	90 dBu
Interleave mode	I=128,J=1

Pic-3.2.2.1-7

QAM **Mode** support **64 / 256QAM** output.



Mode	64QAM
Level	256QAM

Pic-3.2.3-8

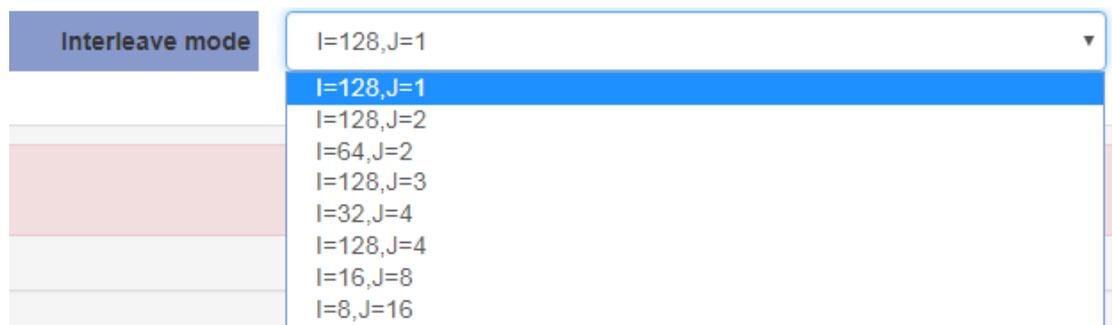
The output power **Level** Range is from **90** to **116** dBu.



Level	90 dBu Range : 90 - 116
-------	----------------------------

Pic-3.2.3-9

The **Interleave mode** can be set as these parameters below:



Interleave mode	I=128,J=1
	I=128,J=1
	I=128,J=2
	I=64,J=2
	I=128,J=3
	I=32,J=4
	I=128,J=4
	I=16,J=8
	I=8,J=16

Pic-3.2.3-10

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	I=128, J=1
	I=128, J=2
	I=64, J=2
<b>Interleave mode</b>	I=128, J=3
	I=32, J=4
	I=128, J=4
	I=16, J=8
	I=8, J=16

---

### Advanced Setting

To configure the advanced setting for encoding and streaming, please click the **Advance Settings** chars in blue. It will reflect to the new page to set the detailed parameters for Live Mode. It contains three parts of configuration: **Stream info**, **Video info** and **Audio info (Dolby D St Creator)**

Advanced Settings Back

**Stream Info**

Output Standard	DVB
Program Number	1
Stream ID	0
PMT PID	65
PCR PID	68
Total Bitrate	4500 Kbps
Program Name	HD_Program
Provider Name	HD_Provider

Pic-3.2.3-11

✧ **Stream info:** In this page, you can configure the Output Standard, Program Number, Stream ID, PMT PID, PCR PID and etc.(Pic-3.2.3-11)

- **Output Standard:** MPEG/DVB/ATSC

- **Program Number:** ranging from 1 – 65535
- **Stream ID:** ranging from 0 – 65535
- **PMT/PCR PID:** ranging from 32 – 8190
- **Program/Provider Name:** length must be less 20

Video Info	
Video Source	HDMI
Video PID	66
Video Encoding Mode	H264
Video Resolution	Auto
Aspect Ratio	Auto
Video Bitrate Mode	CBR
Video Bitrate	4000] Kbps Range: 800 - 14000
Video Profile	Baseline
Video Level	H264 3.2
GOP Structure	IBBP
GOP Size	60
GOP Close	Enable
Close Caption	Disable

Pic-3.2.3-12

✧ **Video Info (refer to Pic-3.2.3-12)**

- **Video Source:** base on the source you selected in basic setting page
- **Video PID:** ranging from 32 - 8190
- **Video Encoding Mode:** H.264/MPEG2
- **Video Resolution:** Auto/User can choose certain output resolution

( Resolution Supported:

HD: 1920 x 1080@24p/25p/30p/50i/60i, 1280 x 720@50p/60p/25p/30p

SD: 720 x 576@50i, 720 x 480@60i)

- **Aspect Ratio:** Auto/ 16x9\_Letter Box / 16x9\_Cutoff / 4x3\_Pillar Box / 4x3\_Cutoff
- **Video Bitrate Mode:** CBR /VBR

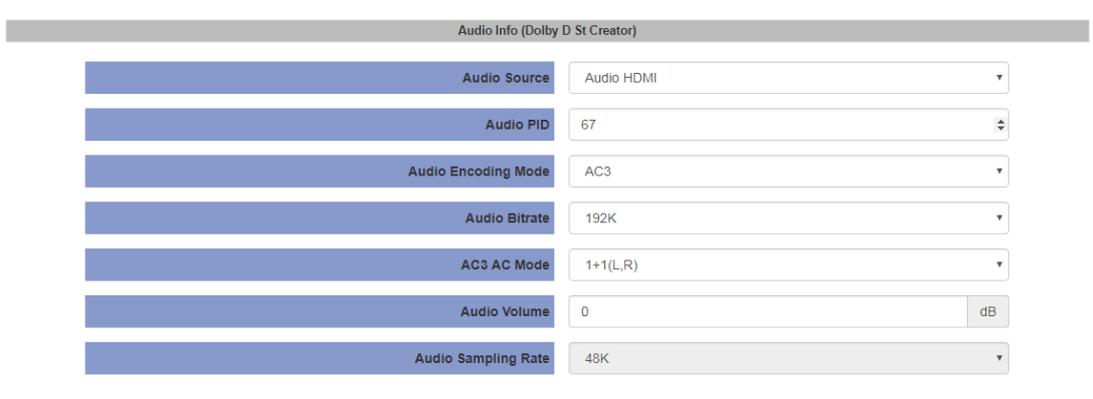
- **Video Bitrate:** ranging from 800 to 14000Kpbs(MPEG2/H.264)
- **Video Profile:** Baseline/High/Main
- **Video Level:** H.264 1b/ H.264 1.0 - 4.2
- **GOP Structure:** IBBP, IPPP,IBP,IBBBP
- **GOP Close:** Enable/Disable
- **Close Caption:** Enable/Disable

**Note:** When input signal is detected and the preset output signal is of the allowed ones (see mapping table below), the preset will be remained, otherwise the output resolution will changed to Auto automatically.

input signal	preset output signal
1920x1080_30p	1920x1080_30p 1280x720_30p 720x480_60i
1920x1080_60i	1920x1080_30p 1920x1080_60i 1280x720_30p 720x480_60i
1920x1080_24p	1920x1080_24p
1920x1080_50i:/	1920x1080_25p 1920x1080_50i 1280x720_25p 720x576_50i
1280x720_60p:	1280x720_60p 1280x720_30p 720x480_60i

1280x720_50p	1280x720_50p 1280x720_25p 720x576_50i
720x480_60i:	720x480_60i
720x576_50i	720x576_50i

✧ **Audio Info(Dolby D St Creator)**



Audio Info (Dolby D St Creator)	
Audio Source	Audio HDMI
Audio PID	67
Audio Encoding Mode	AC3
Audio Bitrate	192K
AC3 AC Mode	1+1(L,R)
Audio Volume	0 dB
Audio Sampling Rate	48K

Pic-3.2.3-13

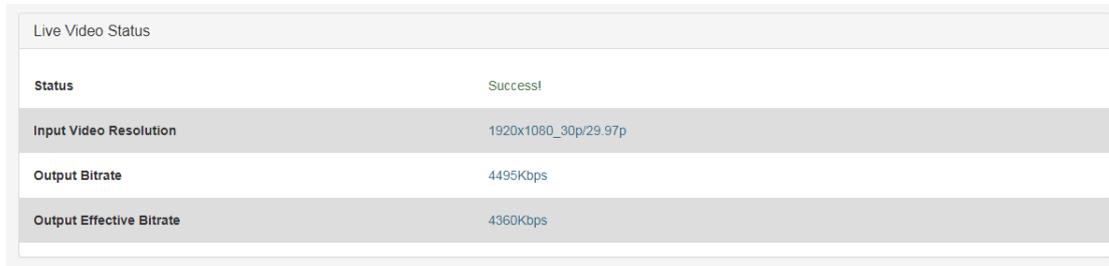
- **Audio Source:** Audio HDMI/Audio MIC could be selected
- **Audio PID:** ranging from 32-8190
- **Audio Encoding Mode:** AC3/MPEG1 Layer2/MPEG2 AAC-LC/MPEG4 AAC-LC
- **Audio Bitrate:** 128K/160K/192K/224K/256K/320K/384K/448K
- **AC3 AC mode:** 1+1(L,R), 1/0(C), 2/0(L,R)
- **Audio Volume:** -12 - 12
- **Audio Sampling Rate:** 48K is fixed output audio sampling rate

Click **Apply** button to make the new configuration into effect when finishing the setting.

Click **Start** icon on the left-bottom to make the encoding into effect;

**Note:** When you apply the new configuration the status should be paused, which means the button in blue bar below displayed **Start**.

## Live Status



Live Video Status	
Status	Success!
Input Video Resolution	1920x1080_30p/29.97p
Output Bitrate	4495Kbps
Output Effective Bitrate	4360Kbps

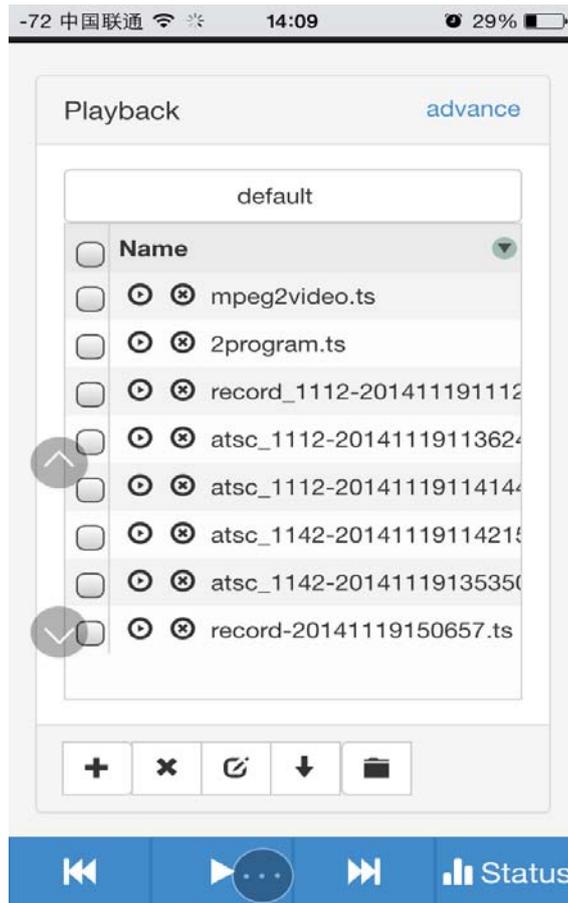
Pic-3.2.3-14

Click the **Status** icon on the right-bottom to get reflect to the live status page. The page displays and updates the real-time status of encoding and streaming.

### 3.2.4 Playback mode

#### Basic Setting

1. Plug one USB disk to USB port on the front panel of the NB100U to play the TS from the disk.
2. Click the **Playback** icon to get the playback page, which will list all the available TS from the USB disk.
3. Click the required TS to play the TS.



Pic-3.2.4-1

**Note:** The Playback interface will save and display the TS list from memory of the last USB disk. If there is no disk connected.

 : to add new Play list. The default play list is named "default".

 : to delete the existing Play list.

 : to modify the play list name.

 : to change the play mode, including single cycle, listing loop, random, order playback.

 : to add new TS to the play list.

## Advanced Setting

The screenshot shows the 'Advanced Settings' window with a 'Back' button in the top right corner. The settings are as follows:

Output	UDP
IP	227 -20 -30 -40
Port	1234
<input checked="" type="checkbox"/> Enable daily play plan	
Daily Play Time	00:00:00 hh:mm:ss

An 'Apply' button is located at the bottom left of the window.

Pic-3.2.4-2

UDP mode is like Pic-3.2.4-2

**Output:** UDP/Modulation

**IP:** The destination IP address for IP streaming.

**Port:** The destination IP port for IP streaming.

**Daily play plan:** To set the play plan.

The screenshot shows the 'Advanced Settings' window with a 'Back' button in the top right corner. The settings are as follows:

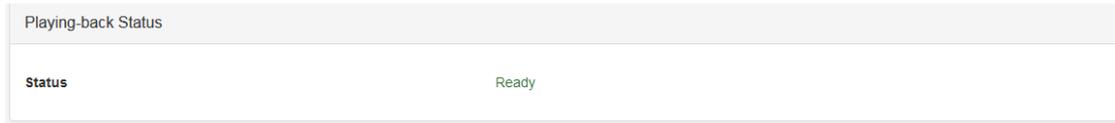
Output	Modulation
Frequency	474000 KHz
SymbolRate	5057 KBaud
Mode	64QAM
Level	90 dBu
Interleave mode	I=128,J=1
<input checked="" type="checkbox"/> Enable daily play plan	
Daily Play Time	00:00:00 hh:mm:ss

Pic-3.2.4-3

In Modulation mode (Pic-3.2.4-3), you can configure Frequency, Symbol Rate, Mode, Level, Interleave mode. The setting parameter range is same as Modulation mode of Live mode.

## Playback Status

This page displays the status of Playback.

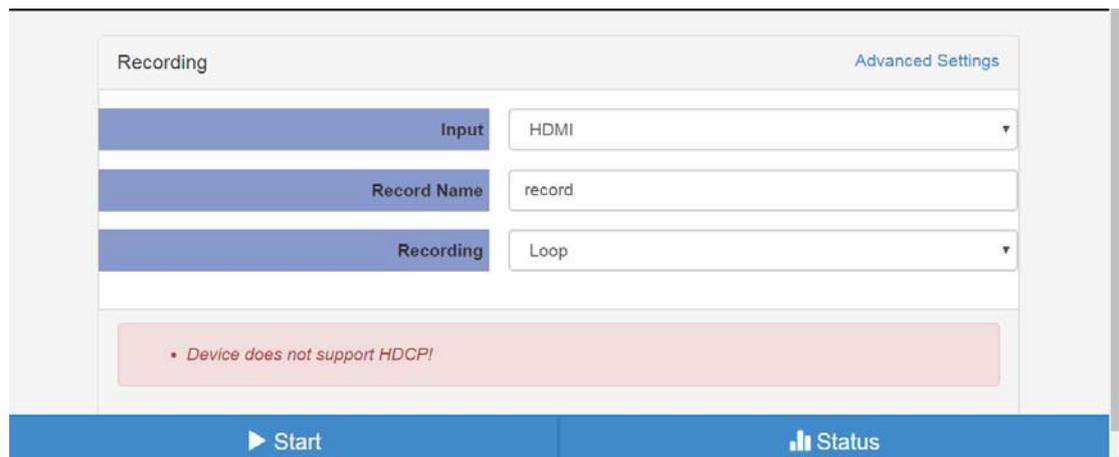


Pic-3.2.4-4

### 3.2.5 Recording Mode

#### Basic Setting

1. Connect the USB disk to the NB100U. Click **Recording** icon to get the recording page (Pic-3.2.5-1).
2. Set the encoding parameter, and click the **Start** icon to start the recording or **Pause** to stop the recording.
3. Click the **Status** icon to reflect to the Status page.



Pic-3.2.5-1

**Note:** If the USB disk is not connected or there is not enough space on the disk, it is not able to start the recording. The minimum available free space is 10MB. The NB100U will overwrite the first file it created when the free space is not enough, all those files which are not created by NB100U will not be affected.

For Recording mode, there are **Loop** (Pic-3.2.5-1), **Size** (Pic-3.2.5-2), **Time** (Pic-3.2.5-3) to be choose.

Recording Advanced Settings

Input	HDMI
Record Name	record
Recording	Size
Record Size	10 M
Loop	<input type="checkbox"/>

Pic-3.2.5-2

Recording Advanced Settings

Input	HDMI
Record Name	record
Recording	Time
Recorded Time	00:01:00 hh:mm:ss
Loop	<input type="checkbox"/>

Pic-3.2.5-3

### Advance setting

For advance setting, please refer to **3.2.3 Live Encoding Advance setting**.

### Recording Status

This page offers the status of the recording and the storage of the connected USB disk.

Recording Status	
Status	Free
Input Video Resolution	No Video
Output Bitrate	4686Kbps
Output Effective Bitrate	0Kbps
Record Name	record
USB Status	USB does not exist!
Recorded Time	00:00:00
Record Size	0M

Pic-3.2.5-4

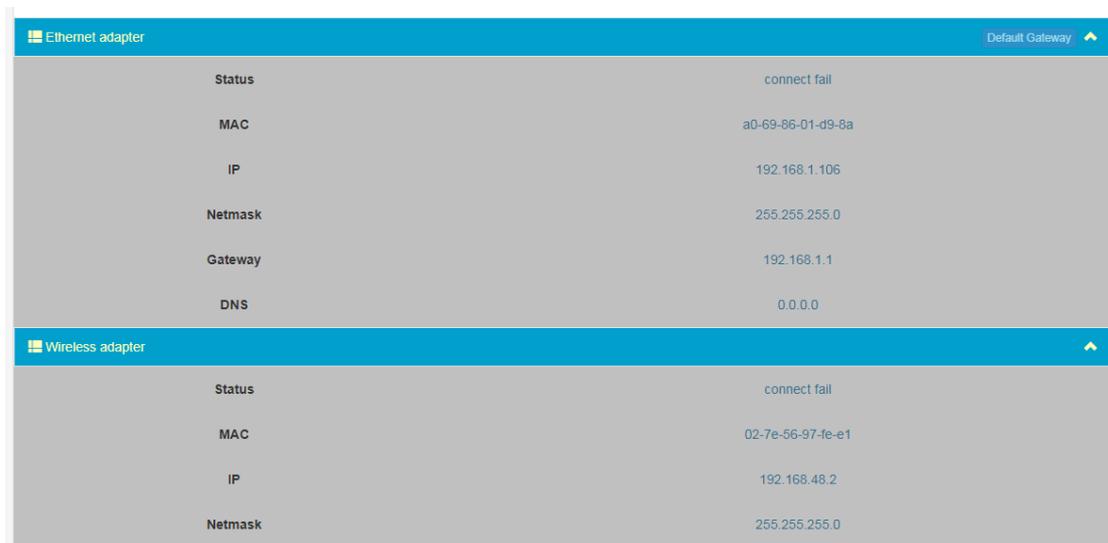
### 3.2.6 System

Click the  icon to get the **System** page. The System page provides the **Network Status**, **Ethernet**, **Wifi Hotspot**, **Wifi**, **Language**, **Time**, **Upgrade**, **Development** and **Contact us** these items. (Pic-3.2.6-1)



Pic-3.2.6-1

✧ **Network Status:** This page shows status of network related info:



Pic-3.2.6-2

✧ **Ethernet:** to set up equipment management access **IP** address, **Subnet Mask**, **Gateway** and etc (Pic3.2.6-3). The NB100U can be configured to use DHCP to obtain an IP address/Subnet Mask/Gateway. To obtain an IP address may require up to one minute.

Ethernet

DHCP  OFF

IP 192 -168 -1 -106

Subnet Mask 255 -255 -255 -0

Gateway 192 -168 -1 -1

DNS 0 -0 -0 -0

Pic-3.2.6-3

✧ **Wi-Fi Hotspot:**

This page shows how to set a Wi-Fi Hotspot which enable PC, Hand phone or Tablet to log in via wireless connection to the device.

Wifi Hotspot

ON

SSID NB100-97-fe-e1

Mode Auto

Channel Auto

Encrypt  ON

Password 12345678

Pic-3.2.6-4

✧ **Wi-Fi**

Enable NB100U Wi-Fi function to connect to a wireless LAN.

Wifi

ON

Wifi Name	Status
katy perry	
wellav_test	
AYIF-01502091158	
MY WIFI	
wellav-office3	
tesla for jo	
mgwxE2w80v99s	
LieBaoWIFI181	

Pic-3.2.6-5

**Note:** Wi-Fi hotspot and Wi-Fi reception have the same range. When it is used as a

hotspot, Wi-Fi reception is disabled automatically, vice versa.

- ✧ **Language:** English and Chinese are available to pick.



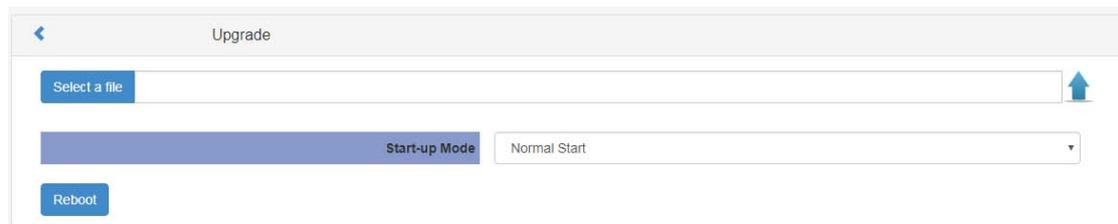
Pic-3.3.6-6

- ✧ **Time:** to configure the system time sync with Manual or Internet time.



Pic-3.2.6-7

- ✧ **Upgrade:** to upgrade new version software by select a file and click the Arrow button. It will take several minutes to finish the upgrading and after that, after upgrading please reboot the unit (Pic-3.2.3-8).



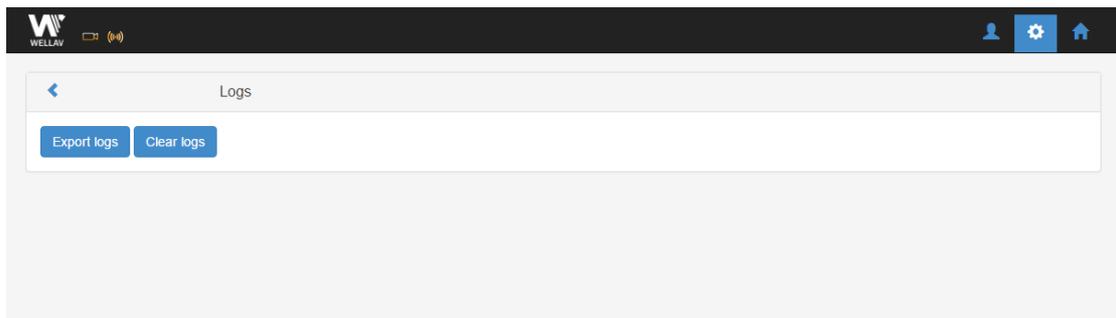
Pic-3.2.6-8

- ✧ **Development:** to export & clear the logs, check the debug info, export configuration, export & upgrade license, view system information and etc.



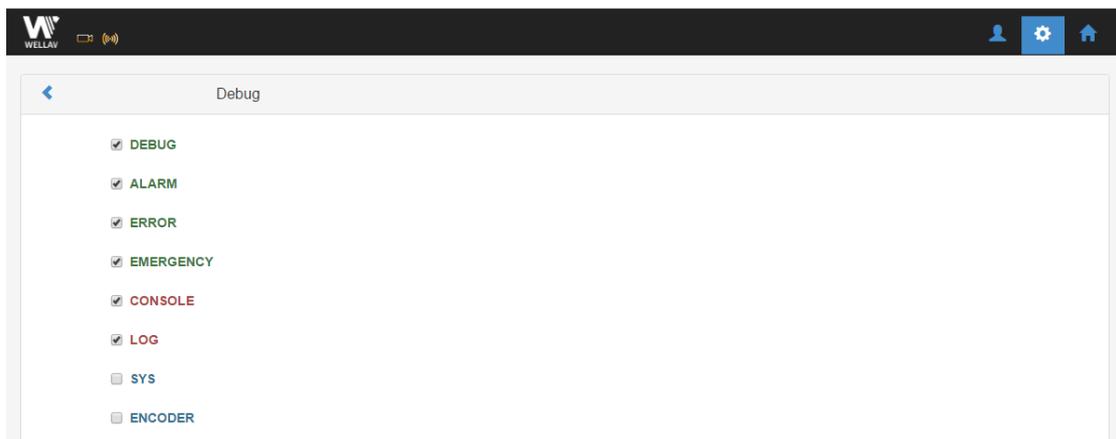
Pic-3.2.6-9

- **Logs:** User can export & clear the logs in this interface.



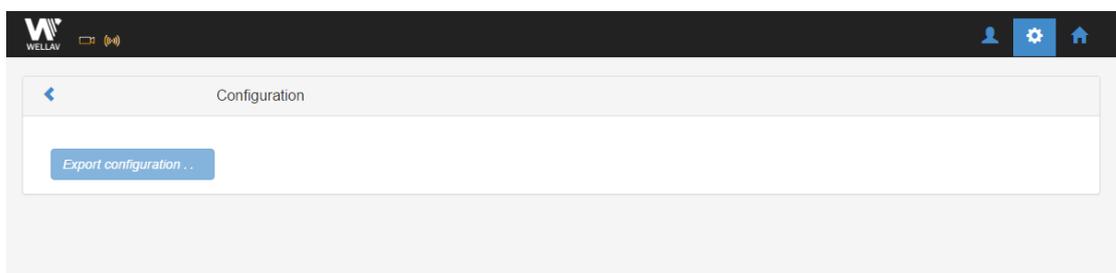
Pic-3.2.6-10

- **Debug:** User can check the debug info which is usually used for R-D.



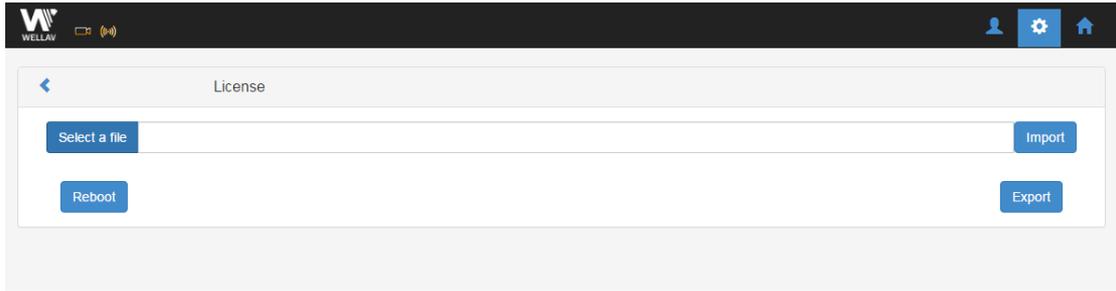
Pic-3.2.6-11

- **Configuration:** User can export configuration (including system and service configuration) in this tab.



Pic-3.2.6-12

- **License:** User can export & upgrade license, please do reboot to active the license.



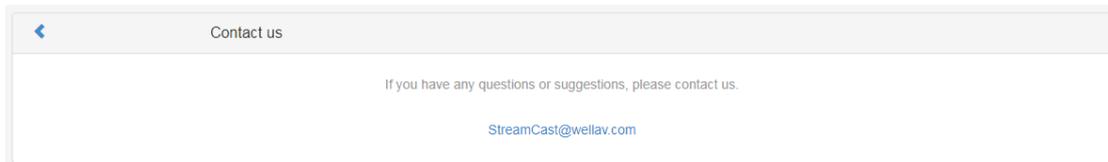
Pic-3.2.6-13

- **System information:** User can check system info in this tab.

System Information	Value
Software Version	1.8.0
Firmware Version	1.0.0
Hardware Version	0.0.99
Driver	Pro100
Encode Firmware	3c-1-a
SPI ROM	pro

Pic-3.2.6-14

#### ✧ **Contact us**



Pic-3.2.6-15