



LAVISION-8811



Preface

Thank you for purchasing TELELYNX INC products!

We fully own the intelligent property rights of this product. Our company reserves the rights to pursue legal actions against unauthorized duplication and usage of the product and its software by any organizations or individuals.

For ensuring long-term stability of product operation, please strictly follow the methods, procedures and constraints introduced by this manual while operating the device, while the manual is for reference only, the functionality and UI shall be subject to the real products.

After purchasing of our devices, please leave your contact details to our customer service staff. We will track the usage of the device randomly, and inform you while there is a new version of software available for your device upgrading.

When encountering malfunction of the device, please contact our customer service staff in time for maintenance and repairing.



Safety Instructions

- Read this manual carefully before start operating the device.
- Removal of device cover without permission may cause harm to human body and the maintenance bond to be invalidated.
- Handle the device with care to avoid crashing and falling, or otherwise it may cause hazards to the internal hardware parts.
- Keep all inflammable, metal and liquid materials from dropping into the device casing, or otherwise it may cause damages to the device.
- Avoid dusty places and places with heating resources nearby, direct projection of sunlight or instant mechanical vibrations for installation of the device.
- Connect the grounding connector on the rear panel to protective earth contact properly while in operation.
- Choose proper type of cable connectors for connecting network interfaces of the device.
- Avoid rapid and frequent power on/off, or it may cause damages to the semiconductor chipsets.
- Keep proper direction of the power cord when plug into or out from a power socket.
- Connect the grounding pole and signal cable before connecting the power cord.
- Do not touch the power socket with wet hands to avoid electric shocks.
- Take off all jewelry or ornaments, such as ring, necklaces, watches, bracelets, etc., before operating the device, or otherwise the metal contact may possibly cause short circuit and result in components damage.
- Make sure the AC power is unplugged in case of operator services within the device casing or close to power supply are needed.
- Only we trained and approved staff is permitted to perform live line operation and maintenance within the device casing.
- Ensure good ventilation when the device is in operation, or otherwise it may cause damages to the device due to overheating.
- It is recommended to unplug the power cord from the socket if the device will not be used for a long period of time.



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Chapter 1 Introduction

1.1 Product Overview

With the significant increase in UHD TV hitting the market, we now is releasing a new professional UHD/4K video encoder for a solution to address the needs of early adopters of the premium TV standard. LAVISION-8811UE delivers UHD/4K for an immersive experience with high-resolution and high-framerate.

The encoder supports 4:2:2 and low-latency encoding; combined with its significant HEVC bitrate savings, content in real-time via HEVC (H.265), today' s most advanced compression standard. It is equipped with a 2 channels HDMI interface (1 channel input with 1 port for backup), which can encode 1 channel UHD/4K video signal.

The device supports ASI, Gigabit IP input and output, With its wide range of encoding tools, and excellent video quality, HEVC offers incredible compression efficiency, making live UHD/4K delivery available for satellite, cable, terrestrial, fiber networks and digital television broadcasting systems.

1.2 Key Features

- 2 channels HDMI 2.0 interface (for 1 channel input with 1 port for backup)
- Embedded hardware coding
- H.265 / HEVC and H.264 / MPEG-4 AVC Video encoding
- 2*ASI&128*IP input over UDP / RTP protocol
- 4*MPTS (UDP / RTP protocol) output
- Superior real-time HEVC compression, with ultra high video compression ratio
- MPEG-1 Layer2, LC-AAC, AC3 passthrough Audio encoding
- HDCP2.2, HDCP 1.4 supported
- 1 channel HDMI video loop out
- maximum 3840X2160@60P video coding
- VBR / CBR supported
- RGB / YCbCr 4:4:4 input
- Low latency Mode
- PSI/SI editing/insert supported
- PID remapping
- Accurate PCR adjusting



- IP null packet filtering
- Real time output bitrate monitoring
- Management via External SNMP and WEB
- Easy-to-Use System Management
- Reliable: Hardware based for 24/7 operation

1.3 Specifications

	1×HDMI input (2.0)	with	2 HDMI por	t, HDCP 2.2/1.4			
Input	2 ASI input, BNC int	terfac	e				
	32 IP input over UDI	P and	RTP protoco	bl			
	Resolut	ion		Chroma			
	3840×2160_60P,384	0×21	60_59.94P,				
Video Input 3840×2160_ 3840×2160_ 3840×2160_ 3840×2160_ 3840×2160_ 1920×1080_ 1920×1080_ 1920×1080_ 1920×1080_ 1920×1080_ Encoding Video Chroma	3840×2160_50P,384	0×21	60_30P,				
Video Input	3840×2160_29.96P,3	3840×	2160_25P,	PGP VChCr 4.4.4 VChCr 4.2.2			
video input	3840×2160_24P,192)_24P,1920×1080_60P,		NGB, 10001 4.4.4, 10001 4.2.2, NChCr 4.2.0 (2160P, 50/60Hz only)			
	1920×1080_59.94P,1	920×	(1080_50P,	1COCI 4.2.0 (2100F_50/00112 011y)			
	1920×1080_30P,192	20×10)80_25P				
	1920×1080_24P,						
	Encoding	H.2	65/HEVC, H	I.264/AVC			
Video	Chroma	4:2:	2, 4:2:0				
Encoding	Bit-rate	1M	bps~23Mbps				
	Rate Control	CBI	R				
Andia	Encoding	MP	EG-1 Layer 2	2, LC-AAC			
Audio	Sampling rate	48K	Hz				
Encounig	Bit-rate	64K	lbps~256Kbp	os each channel			
	2 ASI input multiplez	xed w	vith local 1 cl	hannel of TS			
Multiploying	PID remapping (auto	matio	cally or manu	ually)			
winnpiexing	Accurate PCR adjust	ing					
	Generate PSI/SI table	e auto	omatically				
	1*ASI output through 4 BNC interfaces						
Stream output	1 MPTS over UDP/RTP, 1000M/100M Base-T Ethernet interface (unicast/						
	multicast)						
System	LCD/keyboard opera	ting,	web NMS su	upporting			
function	Ethernet software &	hardv	ware upgrade	,			
Miscellaneous	Dimension (W× L× J	H)	482mm×45	5mm×44mm			



Approx weight	4kg
Temperature	$0\sim45^{\circ}C(\text{work}), -20\sim80^{\circ}C(\text{Storage})$
Power	AC 100V-220V±10%, 50/60Hz
Consumption	25W

1.4 Appearance and Description





1	Port Power supply and Grounding Pole
2	HDMI input
3	ASI input
4	Data Port Indicator
5	ASI output port
6	DATA Port
7	NMS/CAS
8	Second DATA Port, for OSD interface



Chapter 2 Installation Guide

This section is to explain the cautions the users must know in some case that possible injure may bring to users when it's used or installed. For this reason, please read all details here and make in mind before installing or using the product.

2.1 General Precautions

- \checkmark Must be operated and maintained free of dust or dirty.
- ✓ The cover should be securely fastened, do not open the cover of the products when the power is on.
- ✓ After use, securely stow away all loose cables, external antenna, and others.

2.2 Power precautions

- \checkmark When you connect the power source, make sure if it may cause overload.
- ✓ Avoid operating on a wet floor in the open. Make sure the extension cable is in good condition
- \checkmark Make sure the power switch is off before you start to install the device

2.3 Device's Installation Flow Chart Illustrated as following



2.4 Environment Requirement

Item Requirement



Machine Hall Space	When user installs machine frame array in one machine hall, the distance between 2 rows of machine frames should be 1.2~1.5m and the distance against wall should be no less than 0.8m.
	Electric Isolation, Dust Free
Machine Hall Floor	Volume resistivity of ground anti-static material: $1X10^7 \sim 1X10^{10}\Omega$, Grounding current limiting resistance: $1M\Omega$ (Floor bearing should be greater than 450Kg/m^2)
Environment	$5 \sim 40^{\circ} C$ (sustainable), $0 \sim 45^{\circ} C$ (short time),
Temperature	installing air-conditioning is recommended
Relative Humidity	20%~80% sustainable 10%~90% short time
Pressure	86~105KPa
Door & Window	Installing rubber strip for sealing door-gaps and dual level glasses for window
Wall	It can be covered with wallpaper, or brightness less paint.
Fire Protection	Fire alarm system and extinguisher
Power	Requiring device power, air-conditioning power and lighting power are independent to each other. Device power requires AC 110V±10%, 50/60Hz or AC 220V±10%, 50/60Hz. Please carefully check before running.

2.5 Grounding Requirement

- ✓ All function modules' good grounding is the basis of reliability and stability of devices. Also, they are the most important guarantee of lightning arresting and interference rejection. Therefore, the system must follow this rule.
- ✓ Grounding conductor must adopt copper conductor in order to reduce high frequency impedance, and the grounding wire must be as thick and short as possible.
- \checkmark Users should make sure the 2 ends of grounding wire well electric conducted and be antirust.
- \checkmark It is prohibited to use any other device as part of grounding electric circuit
- ✓ The area of the conduction between grounding wire and device's frame should be no less than 25 mm².



Chapter 3 WEB NMS Operation

User not only can use front buttons to set configuration, but also can control and set the configuration in computer by connecting the device to web NMS Port. User should ensure that the computer's IP address is different from the LAVISION-8811UE's IP address; otherwise, it would cause IP conflict.

4.1 Encoder login

The default IP address of this device is 192.168.0.136. (We can modify the IP through the front panel.)

Connect the PC (Personal Computer) and the device with net cable, and use ping command to confirm they are on the same network segment.

I. G. the PC IP address is 192.168.99.252, we then change the device IP to 192.168.99.xxx (xxx can be 1 to 254 except 252 to avoid IP conflict). Second DATA Port, for OSD interface IP address is 192.168.0.137.

II. Use web browser to connect the device with PC by inputting the Encoder IP address in the browser's address bar and press Enter.

It will display the Login interface as Figure-1. Input the Username and Password (Both the default Username and Password are "admin".) and then click "LOGIN" to start the device setting.



Web Management +			÷
(•) → □ 192.168.0.13		☆ マ C 🚼 - Google	۹ 🔒 🖸
(44).	ANY CONTRACTOR OF		
	Username: 🚺 admin		
	Password: 🙆 🔶 🌢 🌢		
	Default User:admin Default Password:admin		
	Copyright	02011	

Figure-1

4.2 Encoder Operation

Status

When we login into encoder module, it displays the status interface as Figure-2.



Parameters → **ENCODER**

LAVISION-8811UE support 1 channel HDMI input, 1 for backup. From the menu on left side of the webpage, clicking "encoder", it displays the information of each encoding channel as Figure-3.



Summary ▶ tatus Parameters ▶ rescord ▶ condigitation ▶ rescord ▶ rescord ▶ rescord ▶ rescord ▶ condigitation ▶ rescord ▶ rescord	
Encoder TS Config P Stream Astim Network Passaord Configuration Firmare Date Time Log Audio	
Input Select: Auto VIDEP: Auto Select Encoding Password Configuration Frame Rate Reduce: Auto VIdeo Bitrate: 23.000 (1 - 23 Mbps) Date Time Log Audio	
Passard Chroma: 420 Resolution: 1920x1000 v Firmare Frame Rate Reduce: Auto Video Bitrate: 23.000 (1 - 23 Mbps) Delet Time Video Format: 11.264 Video Rate Mode: CBR Video Rate Mode: 000 Auto Video Rate Mode: 50.000 Average Bitrate: 19.200 Average Bitrate: 19.200	Channels here
Firame Rate Reduce: Luto Video Bitrate: 23.000 (1 ~ 23 Mbps) Date Time Video Format: H_254 Video Rate Mode: CBR Maximum Bitrate: 51.000 Average Bitrate: 118.320 Audio	
Date Time Video Format: H254 Video Rate Mode: CBR Log Maximum Bitrate: 73 000 Average Bitrate: 19 320 Audio	
Maximum Bitrate: 23 000 Average Bitrate: 19 320	Video Status read a
Audio	
Pass Through: Close ✓ Format: IMPEG1Layer2 ✓ Audio Bitrate: 128/Sps ✓	Audio Status rea
Status	
Module Version: cpu:60.01.22-6958.01.01.40 Encoder Chip Version1:3.0.00.14195	1
Encoder Chip Version2: V01L01R06_r1714_r1600 Encoder Chip Version3: V01L01R12_r1829_r1826	I
Encoder Chip Mode: normal Interface Version: 0.0.4.5	
HDM11: Input Lock:	
HDMI2: Encoder Chip Status:	
Input Information: hdmi2.unknown Bitrate(Act/Max): 0.000.00 Mbps	
	status

Figure-3

Parameters → TS Config:

From the menu on left side of the webpage, clicking "TS Config", it displays the interface where users can configure the TS output parameters.

➤ TS Config→Stream select:

From the menu on up side of the webpage, clicking "Stream select", it displays the interface where users can select program(s) to multiplex out and modify program info. (Figure-4)



Figure-4

Configure 'Input Area' and 'Output Area' with buttons in 'Operation Area'. Instructions are as below:



+ : To add input channel which can from 3 modules

★ : To delete the input channel

i : To delete all inputs channel

→Lose → Locked : To check input IP lock or not, green means current IP locked

→Normal → Overflow: To check current TS overflow or not, red color means current TS overflow,

need reduce program

CA Filter : To filter/not filter the source CA information

[☑]PidRemap</sup> : To enable/disable the PID remapping

Refresh Input To refresh the input program information

Refresh Output To refresh the output program information

Select one input program first and click this button to transfer the selected program

to the right box to output.

Similarly, user can cancel the multiplexed programs from the right box.

All Input To select all the input programs

All Output To select all the output programs

Parse program To parse programs time out 60 seconds time limitation of parsing input programs

Program Modification:

The multiplexed program information can be modified by clicking the program in the 'output' area. For example, when clicking¹¹: © CCTV-101=>239.93.0.1:5101</sup>, it triggers a dialog box (Figure 5) where users can input new information.

Program Information		[close]
Program From Input.	CH1_Module 1 [101]	
Service Name:	TV-101	
Program Number:	1001	
Service Type:	0x01	
Service Provider:	TV-Provider	
PMT Descriptor Tag:	🗖 0x00	
PMT Descriptor Data:	(Hex)	
PMT PID:	0x0020	
PCR PID:	0x0021	
MPEG-4 Video PID:	0x0021	
MPEG-1 Audio PID:	0x0022	
	As	oply Close

Figure-5



Parameters→ OSD:

Click 'OSD', it will display the interface where to configuration the OSD parameters





➤ TS Config→General:

From the TS Config menu on up side of the webpage, clicking "General", it displays the interface where users can set output mode, enable PSI/SI table out, NIT insert/VCT insert, PCR correction. (Figure-6)

status					
rameters					
Encoder	Stream Select	General PID Byp	ass		
IP Stream	Stream				
stem	Output Bitrate:	54.000	Mbps Output Mode:	Mux out ~	
Network	PAT Insert:	M	SDT Insert:		
Password	BAT Insert:		Share BAT:		
Configuration	CAT Insert:		PMT Insert		
Firmware	TE ID.		ON ID.		
Date Time	TS ID:	L	ON ID:	1	
	PCR Correct		PCR Speed BW	1 ~	
	PCR State BW	1 v	PCR Compensate	0 ~	
	тот/тот				
	TDT/TOT Insert:		TOT Descriptor Inser	t: disable ~	
	NIT				
	NIT Insert:	Not insert ~]		
	VCT				
	VCT Insert:		Modulation Mode:	4	
	IPTV Sync(SPTS)				
	IPTV Sync:		Sync Period:	300 Sec	
	IPTV Sync(SPTS) IPTV Sync:		Sync Period:	300 Sec	



➤ TS Config→PID Bypass:

From the TS Config menu on up side of the webpage, clicking "PID Bypass", it displays the interface as Figure-7 where user can add PIDs to be passed, click the "+" symbol, input current IP channel number, then input current IP source Pid and output Pid which is customer needed , then click "set"

o Management	
Summary Status	TS CONFIG
Parameters	Stream Select General PID Bypass
► TS Config ► IP Stream	Index Input Channel Input PID(0x) Output PID(0x)
System Network	
Configuration Firmware	Set Del-Al
► Date Time ► Log	



Figure-7

Parameters → **IP** Stream:

LAVISION-8811UE supports TS to output in IP (MPTS) format through the DATA1 and

DATA2 port.

Click 'IP Stream', it will display the interface where to set IP out parameters (Figure-8).

The to use web Maria										
Immary	IP STREAM									
rameters	Channel In	ifo.(Alarm/Active/Total): 0/	/1/1							
Encoder TS Config	#	IP Address	Port	Protocol	Pkt Length	Null PKT Filter	Status	Bit(Act/Max)		0 1
IP Stream	1	224.2.2.2	2001	UDP	7		٠	0.0/54.0 M		Ouici
Network										Chan
Configuration									1	
ate Time										

Figure-8

System → Network:

Click 'Network', it will display the interface as Figure-9 where to set network parameters.

mary	NETWORK		
atus			
notore			
lieters	NMS		
coder		10.4.11	
Config		IP Address:	192.168.0.136
stream		Subnet Mask:	255.255.255.0
em		Gateway:	192.168.0.1
twork		Web Manage Port:	80
ssword		MAC Address:	82.07:27.7a:05.22
nfiguration			
mware			Apply
te Time			
y			
	DATA		
		IP Address:	192.168.2.136
		Subnet Mask:	255.255.255.0
		Gateway:	192.168.2.1
		MAC Address:	82:17:27.7a:05:22
			Anniv

Figure-9



System → password

From the menu on left side of the webpage, clicking "Password", it will display the screen as Figure-10 where to set the login account and password for the web NMS.

welcome to	
Summary	PASSWORD
► Status	
Parameters	
b Country	Modify the login name and password to make the device safety if forget the name or password you can reset it by keyboard. The default login name and password is "admin" Also
TS Config	please note the capital character and lowercase character.
► IP Stream	
System	
- Cystem	Current UserName: admin
Network	Current Password:
 Configuration 	New UserName:
► Firmware	New Password:
Date Time	Confirm New Password:
► Log	
	Appy

Figure-10

System → Configuration:

From the menu on left side of the webpage, clicking "Configuration", it will display the screen as Figure-11 where to save/ restore/factory setting/ backup/ load your configurations.

welcome to use Web Ma	
Status	CONFIGURATION
Encoder	Save Restore Factory Set Backup Load
► IS Conlig ► IP Stream	When you change the parameter, you should save configuration , otherwise the new configuration will lost after reboot.
Network Password	
Configuration Firmware	Saw conto
► Log	





System → Firmware:

From the menu on left side of the webpage, clicking "Firmware", it will display the screen as Figure-12 where to update firmware for the modulator.

Summary	FIRMWARE	
Parameters Encoder TS Config PIP Stream System	Warning: 1. Upgrade firmware(software and hardware) to get new function please choose the right firmware to upgrade. If you use a wrong file, the device may not work. 2. Upgrade will keep a long time, please do not turn off the power, otherwise the device will not work. 3. After upgrade.you must reboot device manually.	
Network Password Configuration Firmware Date Time Log	Current Software Version: 03.21.02 Build 160.00 Jun 29 2018 Current Hardware Version: 01.01.02 File: 演戏此,, 未选择文件,	
	Upgra	le



System→ Date/Time:

From the menu on left side of the webpage, clicking "Date/Time", it will display the screen as Figure-13 where to set date and time for the device.

mary					
atus	EITIME				
meters			2018-07-04 19:05:05		
coder		Timezone:	(CMT+09:00) Baijing Changeing Hong Kong Line		
Config	NT	D Commente	(Gwi 1400.00) Beijing, Chongqing, Hong Kong, U +		
Stream	NI	P Server 1:			
em	NT	P Server 2:			
hwork	NT	P Server 3:			
ssword	NT	P Server 4:			
onfiguration	NT	P Server 5:			
mware					
ite Time				Set Timezone	Set NTP Undate from browser
9					



Figure-13

System→ Log:

From the menu on left side of the webpage, clicking "Log", it will display the log interface as Figure-14 where to check or export the Kernel/System log.

Web Management	
0	
Summary	LOG
► Status	
Parametere	
T drameters	Log Type: Kernel Log V Auto Refresh: 0 V Exact
Encoder	
TS Config	0.0000001 Booling Entrus on physical CP0 0x0
► IP Stream	C 0.000001 CHILL VESION 3: 19:0-SIIIX (TOUGUCATIOS LUCATION COMPANY STATES AND PRESENTED THE NOV STA
Svetem	0.000001 CPU PIT / VIPT nonaliasing data cache VIPT aliasing instruction cache
System	0.0000001 Machine model: xInx.zvng-7000
Network	0.000000] cma: Reserved 16 MIB at 0x0d800000
Password	0.000000 Memory policy: Data cache writealloc
Configuration	[0.000000] On node 0 totalpages: 65536
Firmware	[0.000000] free_area_init_node: node 0, pgdat 40596180, node_mem_map 4fdf0000
Date Time	[0.000000] Normal zone: 512 pages used for memmap
▶ Log	0.000000] Normal zone: 0 pages reserved
	0.000000 Normal zone: 65536 pages, UFO batch:15
	0.000000 PERCFU: Embedded 9 pageschu @atosou sa iza in 192 020544 036664
	0.000001 Built 1 zopelists in Zope order mobility arouning on Total pages: 65024
	0.0000001 kernel command line: console=thvPS0 115200 rot=t/dev/am nv earlynrintk
	0.000000[log_buf_len_individual max cpu contribution: 131072 bytes
	0.000000] log_buf_ien total cpu_extra contributions: 131072 bytes
	[0.000000] log_buf_len min size: 131072 bytes
	[0.000000] log_buf_len: 262144 bytes
	[0.000000] early log buf free: 129664(98%)
	[0.00000] PID hash table entries: 1024 (order: 0, 4096 bytes)
	0.0000001 Dentry cache hash table entries: 32/68 (order: 5, 1310/2 bytes)
	0.000000 imode-cache hash table entries: 15384 (order: 4, 55356 bytes)
	1 0.000000 ineliidiy. 2203060/2021444 dvalaale (3190K Kellel code, 219K invata, 1466K lodala, 192K init, 291K bis, 11392K leselved, 16344K citia-teselved, vicingilitetti) 1 0.000000 ineliidiy. 2203060/202144K dvalaale (3190K Kellel code, 219K invata, 1466K lodala, 192K init, 291K bis, 11392K leselved, 16344K citia-teselved, vicingilitetti)
	C 0000001 weetne 0xffff000 (4 kB)
	0.000000 [fmmap : 0xftc00000 - 0xff00000 (3072 kB)
	0.000000] vmalloc : 0x50800000 - 0xff000000 (2792 MB)
	[0.000000] lowmem : 0x40000000 - 0x50000000 (256 MB)
	[0.000000] pkmap : 0x3fe00000 - 0x40000000 (2 MB)
	[0.000000] modules: 0x3f000000 - 0x3fe00000 (14 MB)
	[0.000000] .text: 0x40008000 - 0x4052fa98 (6279 kB)
	[0.000000] .linit: 0x40530000 - 0x40560000 (192 kB)

Figure-14



Chapter 4 Troubleshooting

ISO9001 quality assurance system has been approved by CQC organization. For guarantee the products' quality, reliability and stability. All products have been passed the testing and inspection before ship out factory. The testing and inspection scheme already cover all the Optical, Electronic and Mechanical criteria which have been published. To prevent potential hazard, please strictly follow the operation conditions.

Prevention Measure

- Installing the device at the place in which environment temperature between 0 to 45 °C
- Making sure good ventilation for the heat-sink on the rear panel and other heat-sink bores if necessary
- Checking the input AC within the power supply working range and the connection is correct before switching on device
- > Checking the RF output level varies within tolerant range if it is necessary
- Checking all signal cables have been properly connected
- Frequently switching on/off device is prohibited; the interval between every switching on/off must greater than 10 seconds.

Conditions need to unplug power cord

- Power cord or socket damaged.
- > Any liquid flowed into device.
- Any stuff causes circuit short
- Device in damp environment
- Device was suffered from physical damage
- Longtime idle.
- > After switching on and restoring to factory setting, device still cannot work properly.



> Maintenance needed

Chapter 5 Packing List

LAVISION-8811UE UHD/4K HEVC Encoder	1 pcs
User Manual	1 pcs
Power Cord	1pcs