

HP824LU 24 in 1 H.265/H.264 HD Encoder



CATCAST TECHNOLOGY CO. LTD.(Chengdu) About This Manual

Intended Audience

This user manual has been written to help people who have to use, to integrate and to install the product. Some chapters require some prerequisite knowledge in electronics and especially in broadcast technologies and standards.

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Chapter 1 Introduction

1.1 Product Overview

HP824LU Multi-Channel encoder is a professional HD audio & video encoding and multiplexing device. It has 8/12/16/20/24 HDMI video input interfaces, and supports HEVC/H.265, MPEG-4 AVC/H.264 video encoding, with H.265's high compression ratio, it helps to save bandwidth up to 75%. In conclusion, its high integrated and cost effective design makes the device widely used in varieties of digital distribution systems such as cable TV digital head-end, digital TV broadcasting etc.

1.2 Key Features

- 8/12/16 /20/24× HDMI input with 8/12/16 /20/24 SPTS and 1 MPTS output through Data 1 and Data 2
- HEVC/H.265, MPEG4 AVC/H.264 video encoding format
- Support B frame GOP, high video compression ratio and stable bit-rate
- MPEG-1 Layer 2, LC-AAC, HE-AAC, HE-AAC V2, AC3 Pass-through audio encoding format.
- 1 ASI output (optional) as copy of MPTS
- IP output over UDP and RTP/RTSP protocol
- Support QR code, LOGO, closed caption insertion.
- Support "Null PKT Filter" function
- Support PID Remapping/ PCR accurate adjusting
- Control via web management, and easy updates via web

1.3 Specifications

ł,

Input	8/12/16/20/24	4 HDMI in	puts				
			1920×1080_60P,1920×1080_50P, 1920×1080_59.94P,1920×1080_60i,				
		Input	1920×1080 50i,1920×1080 59.94i,				
	Resolution		1280×720_60P,1280×720_59.94P, 1280×720_50P				
			1920×1080_60P,1920×1080_50P,				
Video		Output	1920×1080_30P,1920×1080_25P,				
			1280×720_60P, 1280×720_50P				
	Encoding		MPEG-4 AVC/H.264, HEVC/H.265				
	Bit-rate		1~15Mbps for each channel				
	Rate Control		CBR/VBR				
	GOP Structur	e	IP, IBBP, IBBBP				
	Encoding		MPEG-1 Layer 2, LC-AAC, HE-AAC, HE-AAC				
Audio	Liteounig		V2, AC3 Pass-Through				
	Sampling rate	2	48KHz				
	Bit-rate		48Kbps~384Kbps (MPEG-1 Layer 2 & LC-AAC)				
			24 Kbps~128 Kbps (HE-AAC)				
			18 Kbps~56 Kbps (HE-AAC V2)				
Multiploying	Maximum PI Remapping	D	180 output PIDs per channel				
Multiplexing	Function		PID remapping (automatically or manually)				
	Tunction		Accurate PCR adjusting				
Stroom	IP output thru Data1 (GE) and Data2 (FE) over UDP and RTP/RTSP protocol						
output	8/12/16/20/24	SPTS and	1MPTS output (unicast/multicast)				
output	ASI output as c	opy of MPT	S (optional)				
System	Network man	agement(V	VEB)				
function	Chinese and I	English lan	guage				
Tunction	Ethernet softw	ware upgra	de				
	Dimension(W	/×L×H)	482mm×410mm×44mm				
Miscellaneous	Environment		0~45°C(work); -20~80°C (Storage)				
_	Power require	ements	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz				

1.4 Principle Chart



.

1.5 Appearance and Description

1 Grounding Pole/ Power Switch and socket

Front and Rear Panel Illustration

1	Grounding Pole/ Power Switch and socket
2	24 HDMI input interfaces
3	Reset Key
4	Indicators
5	ASI output port (Optional)
6	DATA Port (One GE port and one FE for IP stream output)
7	NMS ((Network Management Port)

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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.
- \checkmark 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 Space	Hall	When user installs machine frame array in one machine hall, the distance between 2 rows of machine frames should be $1.2\sim1.5m$ 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	$5\sim40^{\circ}$ C(sustainable), $0\sim45^{\circ}$ 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.
- ✓ 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 can only 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 HP824LU's IP address; otherwise, it would cause IP conflict.

3.1 Login

The default IP address of this device is 192.168.0.136.

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).

Use web browser to connect the device with PC by inputting the 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.

需要授权	
?	http://192.168.0.136 正在请求您的用户名和密码。该网站说:"Webserver"
用户名:	admin
密码:	•••••
	确定取消

Figure-1

3.2 Operation

Summary→Status

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

server X +				-	-	, x	
• 0 192.168.0.136/index.php	🖉 🐹 C		*		~	• =	
		_		0	移动	2番上的书籍	161
ncoder							
lanagement	2019-12-25 10:22:2	7	[EN	1中	ф1	[Exit]	
					~ '		
Summary							
D	EVICE INFORMATION						
P Status							
Parameters							
Module 1	System Information						
Module 2	Software Version: 01.01.07 Build 153.01 Nov 12 2019						
Module 3	Hardware Version: 01.01.24						2
Module 4	Web Version: 1.01					. .	
Module 5	web version, 1.01	2	sys	ten	nII	ntorn	nat
Module 6	System Version: 3.01.1.65						
► TS Config	Product ID: 03542600-00000010-00000000-00000000						
► IP Stream	Uptime: 0 Day-00:10.00						
▶ OSD							
System							
P. Maharata	User can click any item here to enter						
 NetWORK Reserverd 	and the second						
Configuration	the corresponding interface to check						
 Firmware 	information or set the parameters						1
▶ Date I Time	information of set the parameters.						
						53	>



Parameters → Module 1-6

HP824LU supports up to 6 modules with 24 HDMI input. From the menu on left side of the webpage, clicking "Module1-6", it displays the information of each encoding channel as Figure-3. Figure-4 and Figure-5.

anagement					2019-12-25	5 10:23:10 [EN	[中文] [Exit]
	MODULE 1						^
Summary							
Status							
	Enc CH 1 E	nc CH 2 Enc CH	3 Enc CH 4				
Parameters							
Module 1	factory .					-	
Module 2	Video						
Module 3	Format:	H 264	~	Bitrate:	8.00	(1-13 Mbps	0
Module 4	Rate Mode:	CRD		Profile	Main Drofile		·
Module 5	Rate mode.	CDR	~	Frome.	Main Prome		
Module 6	Gop Structure:	IBBP	~	Gop Size:	25	(1~120)	
TS Config	Color Space:	Auto	~				
IP Stream							General setti
▶ OSD	Audio					i	Serierar Setti
System	Format:	MPEG2	~	Bitrate:	128 Kbps	~	for the Encod
	Audio Delay:	6	(_400~1000ms)	personal second	. Automa paraticipation		program:
Network	Addio Delay.	0	(400 1000113)				program. O
Password	Program						can edit any it
Configuration					-	i	
Firmware	Program Name:	TV-101		Service Name:	TV-Provider		listed as neede
Date Time	Program Number:	101		PMT PID:	0x0064		

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Figure-3



Figure-4

Encoder		di di	ă ă			
welcom	Video				2019-12-25	10:24:10 [EN 中文] [Exit
Summary	Format:	H.264	~	Bitrate:	8.00	(1~13 Mbps)
▶ Status	Rate Mode:	CBR	~	Profile:	Main Profile	*
Parameters	Gop Structure:	IBBP	~	Gop Size:	25	(1 ~ 120)
	Color Space:	Auto	~			
Module 1						
Module 2	Audio					
Module 3						
Module 4	Format:	MPEG2	~	Bitrate:	128 Kbps	~
Module 5	Audio Delay:	MPEG2	(-400~1000ms	i)		1
Module 6		HE-AAC				
► TS Config	Program	HE-AAC V2	1			
► IP Stream	Browner Namer	AC3 PASS		Complete Manage	and the second s	
▶ OSD	Program Name.	IV-101		Service Name.	I V-Provider	
	Program Number:	101		PMT PID:	0x0064	i
System	PCR PID:	0x0067		Video PID:	0x0065	
Network	Audio PID:	0x0066		Character Frank	er Tanu	
Password				Audio Sta	atus read are	а
Configuration	System					-
▶ Firmware	PCR Interval:	20	(10 - 10)	HDCP-	enable	
Date Time	r or interval.	bu	(10~40)	nøer.	Chable	
k log						>

Figure-5

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:

124242424242		•••
	HP824LU Multi-Channel Encoder User Manual	

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-6)

/ebserver ×	+							-	σ	\sim
€ 0 192.168.0.136/inc	dex.php				V 88	C	÷		- 10	=
								08	动设备。	上的书
and the second second										
Encoder										
				2019-12-2	5 10:2	6:02	[EN	中文] [[Exit
	TS CONFIG									
Summary						_				
▶ Status										
Deremotore	Stream Select General	PID Bypass								
Parameters										
Module 1										
Module 2	≣ + / × â									
Module 3	⇒Lose ⇒ Locked			⇒Normal → Overflow						
Module 4		[0.0/0.0M]		⊕→Output (prog: 24)						[1.
Module 5	⊕ ⇒2: Module 2 (prog: 4/4)	[0.0/0.0M]	CA Filter							
Module 6	→3: Module 3 (prog: 4/4)	[0.0/0.0M]								
► TS Config	⊕ → 4: Module 4 (prog: 4/4)	[0.0/0.0M]	LI PID Remap							
▶ IP Stream	B → 5: Module 5 (prog. 4/4)	[0.0/0.0M]	Refresh Input		0	tout	Aro	~		
▶ OSD		[0.0/0.0m]	Refresh Output		Ou	.puι	Are	d		
Svetem		6								
oyatem	Input Area		>							
Network	input Aica		<===							
Password										
Configuration										
Firmware				🛛 🗕 🗖 Operati	on A	rea				
Date Time			All Input							

Figure-6

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

→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

^ℤ PID Remap: 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.



To select all the input programs

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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 clicking ^(#)2: TV-102 <=CH1_Module 1 [102], it triggers a dialog box (Figure 7) where users can input new information.

Program From Input:	CH2_Module 2 [201]		
Service Name:	TV-201		
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-2 Video PID:	0x0021		
MPEG-1 Audio PID:	0x0022		

Figure-7

➤ TS Config→General:

From the TS Config menu on up side of the webpage, clicking "General", it displays the interface where users can set TS stream configuration. (Figure-8)

Encoder												
me to use Web Managemi							2019-12-25 1	1.16:0	4 [E	N 中	文][E
Summany												
Summary	TS CONFI	G										
Status		16.0						-				
Parameters			-									
balance of		Stream Select	General	PID Bypass								
Module 1												
Module 2	(17) S											
Module 4	St	ream										
Module 5		Output Bitrate:	300.000	Mbps	TS ID:	1						
Module 6		ON ID:	1		PCR Correct	R						
► TS Config		DCD Speed BW			DCD State BW	4						
▶ IP Stream		For speed off	1		FCR State DW		×.					
▶ OSD							-					
System							Apply					
▶ Network												
► Password												
Contiguration												
► Firmware												
Date Time												
► Log												



Figure-8

➤ TS Config→PID Bypass:

From the TS Config menu on up side of the webpage, clicking "PID Bypass", it displays the interface as Figure-9 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 customer needed , then click "set".

												100	0	×
(+ 0 192.168.0.136/index.p	shp									C	÷		• •	Ξ
													多动设备。	上的书
and the second														
ncoder														
e to use Web Manageme								2019-12-	25 11	:16:18	8 [E	NI¢	文][Exit]
Summary	TE CONFI													
► Status	15 CONFI	6								_				
Parameters					1									
Module 1		Stream Select	General	PID Bypass										
Module 2				-										
Module 3		Index Input Chan	nel Input Pl	D(0x) Output	PID(0x)	+								
Module 4		interior inspire criterio	The second	alant carbon	a sugard									
Module 5														
Module 6							Set	Del-All						
TS Config							Contra Co	and the second						
▶ IP Stream														
▶ OSD														
System														
Network														
Password														
Configuration														
Firmware														
Date Time														



Parameters → IP Stream:

HP824LU supports TS to output in IP (8/12*SPTS and 1*MPTS) or (16/20/24*SPTS or 1*MPTS) format through the DATA1 or DATA2 port. Users need to upgrade process to select output with MPTS or SPTS when 16/20/24 HDMI input.

Clicking "IP Stream", it displays the interface where to set IP out parameters (Figure-10).

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oserver X	+										-	o ×	
♦ ④ 192.168.0.136/ir	ndex.php									🦁 🗱 🕑	+ 🗆 *	• - ≡	
											日 移行	加设备上的书签	£
anna an Alamana													
ncoder													
									004	0.40.05.40.00.00			
									201	9-12-25 10:20:30	[EN 中文] [Exit]	
Summany	IP STRE	AM											
Summary	-												
Status			DATA1	DATA2									
Parameters													
Module 1													
Module 2		#	IP Add	dress	Port	Protocol	Pkt Length	Null PKT Filter	Status	Bit(Act/Max)	1-	Quick	dy Cont
Module 3											100	Quici	, com
Module 4		MPTS	224.2	2.2.2	2001	UDP	7		•	1.6/300.0 M	1		
Module 5	5	SPTS 1	224.2	22	3001	UDP	7			0.1/12.0 M	1	Chan	nol Cor
Module 6		0.101	A. 6. 7. 6			001				0.1112.011		Chan	ner cor
TS Config		SPTS 2	224.2	2.2.2	3002	UDP	7		•	0.1/12.0 M	1		
IP Stream		COTC 2	224.2		2002	LIDP	7			0.1/12.0 M	1		
▶ OSD		36133	224.2		3003	UDP	1	. L.		0.1/12.0 M	-		
System	5	SPTS 4	224.2	2.2.2	3004	UDP	7		٠	0.1/12.0 M	1		
Network		SPTS 5	224.2	22	3005	UDP	7			0.1/12.0 M	1		
▶ Password			Refer From					-			-		
▶ Configuration	5	SPTS 6	224.2	2.2.2	3006	UDP	7		٠	0.1/12.0 M	1		
▶ Firmware		ente 7	224	22	2007	LIDD	7	-		0.4/42.0.14	1		
Date Time		3F157	224.2		3007	UUP	1			0.1/12.0 M	-	~	
▶Log	<											>	

Figure-10

When users click "quickly config" button, it triggers a dialog box (Figure -11) where users can set all channels configration.

Quickly Config.		Click to active the status
Enable: IP Address: Port:	224.2.2.2 3000	Set output IP address
Step: Protocol: Pkt Length:	2 UDP • 7	
Null PKT Filter:		
		Apply Close

Figure-11

When users click "Channel config" button, it triggers a dialog box (Figure -12) where users can set the corresponding channel configration.

Channel 1 Config.			[close]
Enable:			
IP Address:	224.2.2.2		
Port:	2001		
Protocol:	UDP	•	
Pkt Length:	7	•	
Null PKT Filter:	8		
		l	Apply Close





Parameters→ OSD:

Clicking "OSD", it displays the interface where to configuration the OSD parameters (Figure-13.14.15)

Encoder	Select to configure logo, caption or QR code	
inagement	2017-11-07 18.41.05 [EN 中文] [E	xit]
Summary Status	Logo Caption GRCode MOD 1 MOD 2 MOD 3 MOD 4 MOD 5 MOD 6 ALL PRG 1 PRG 2 PRG 3 PRG 4 ALL Video Format 1520x1090 501	
Parameters Module 1 Module 2 Module 3 Module 3 Module 4 Module 5 Module 6	Logo Size 138:132 Logo (X,Y): (0,0) Alpha(0-128) 128 Layer(1-0) 1 Incode a Move Start Pos 0 Layer (1-0) 1 oncode (1) 1 Control (1) 1 Cont	
► TS Config ► IP Stream ► OSD System	Click here to confirm the LOGO you selected	
Network Password Configuration Firmware Date Time	Browse and select the Logo Move your logo on the screen	1
▶ Log		
	date Befresh Gelete Apply SelAll	

Figure-13



Figure-14

.

agement											2017-11-07 16:4	41:51 [EN 中文][E
Summary	Logo	Caption	Code	MOD 1	MOD 2	MOD 3	MOD 4	MOD 5	MOD 6	ALL		
▶ Status	LUGO	Capuon	Coue	PRG 1	PRG 2	PRG 3	PRG 4	ALL				
- Oldrug	Video Format	1920x1080 50	I									
Parameters	QRCode Size	128 x 128		2.20								
Module 1	QRCode (X,Y)	(0,0)	C									
Module 2	Alpha (0~128)128	Layer(1~61 0	RCode		Mo	ve vou	r QR d	ode o	n the :	screen		
Module 3	Start Pos 0	Direct Sta	tic .									
Module 4	ORCode URL:		100									
Module 5	http://www.ds	dub com	_							_		
Module 6	nccp.//www.us	uvb - com										
TS Config	Text Location	Bottom		Pu	t vou	OR co	de Ul	RI her	e			
P IP Stream	Text	No Text			.,	QUU			<u> </u>			
▶ OSD	ORCode Logo	潮際未进設	5文件。									
System	The Local Division	Danger Preserv										
Natural	001010	Clence										
Password		7523 🗐										
Configuration	느ㅋ	1000										
▶ Firmware	1.00	1 (1997) 2										
Date Time	1 2	×										
▶ Log												
	Browse an	d select										
	the QR cod	de which										
	has been cr	eated										

Figure-15

System → Network:

Clicking "Network", it displays the interface as Figure-16 where to set network parameters.

(I92.168.0.136/ind	ex.php			🦁 😹 (ट 🔸 🖽 🦘 🕞 🚍
				□ 移动设备上的书
ncoder				
				2019-12-25 10:27:56 [EN 中文] [Exit
	NETWORK			
Summary				
▶ Status	NMS			
Parameters		IP Address:	102 168 0 136	
Module 1		Subnet Mark:	055 055 055 0	Set NIMS IB address to login
Module 2		Subilet Mask.	100-200-200-0	
Module 3		Gateway:	192 168.0 1	- I to the web management
Module 4		Web Manage Port:	80	interface. The default IP
Module 5		MAC Address:	20:10:12:34:56:78	address is 102 169 0 126
Module 6				audress is 192.108.0.130
TS Config				
▶ IP Stream				(ADDRA)
▶ OSD				
System	DATA1 1000M			
Network		IP Address:	192.168.2.136	
▶ Password		Subnet Mask:	255 255 255 0	Set data port (Data
Configuration		Catoway	100.400.0.4	&Data2) IP address
▶ Firmware		Gateway.	192.166.2.1	· · · · · · · · · · · · · · · · · · ·
Date Time		MAC Address:	20:20:12:34:56:78	
b log	<			>

Figure-16

System → password

Clicking "Password", it displays the screen as Figure-17 where to set the login account and password for the web NMS.

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		HP824LU Multi-Channel Encoder User Manua	I.			

v	Vebserver × +	•		-	0	×
ñ	(192.168.0.136/index.php	V 🕷 C	+		÷) -	· =
				D	移动设备	新上的书名
1	Encoder					
	welcome	2019-12-25 10:28:11	[E	(中)	Z][Exit]
						í
ŀ	Summary	PASSWORD				
	Status					
h	Parameters					
	Module 1	Modify the login name and password to make the device safely. If forget the name or password, you can reset it by				
	Module 2	keyboard. The default login name and password is "admin". Also please note the capital character and lowercase				
	Module 3	character.				
	Module 4					
	Module 5					
	Module 6	Current UserName: admin				
	► TS Config	Current Password:				
	► IP Stream	New UserName:				
	▶ OSD					
L		New Password:				
ŀ	System	Confirm New Password:				
	Network					
	▶ Password	And				
	► Configuration	(1999)				
	▶ Firmware					
	Date Time					
	▶1 og <					>

Figure-17

System → Configuration:

Clicking "Configuration", it displays the screen as Figure-18 where to save/ restore/factory setting/ backup/ load your configurations.

ncoder	
o use Web Managemen	2019-12-25 10:28:21 [EN 中文] [Ex
Summary	
h Status	CONFIGURATION
Status	
Parameters	
Module 1	Save Restore Factory Set Backup Load
Module 2	
Module 3	
Module 4	When you change the parameter, you shoud save configuration , otherwise the new configuration will lost after
Module 5	reboot.
Module 6	
TS Config	
▶ IP Stream	
▶ OSD	Save config
System	
Network	
Password	
Configuration	
► Firmware	
Date Time	

Figure-18

System → Firmware:

. .

Clicking "Firmware", it displays the screen as Figure-19 where to update firmware for the encoder.

L.L.L.L.L.L.L.L.L.L.L.L.L.L.L.L.L.L.L.				
Wahranie V L				1
* () 192 158 0 136/index php				l
n () (192.106.0.130/index.php		· .		
			1 49-20	3
Encoder				
				b
inagement	2019-12-25 10:28:30	[EN]	中文]	İ
Summary	FIDMWARE			
▶ Status	FILMWARE		-	
Parameters				
Module 1	Warning:			
Module 2	 Upgrade firmware(software and hardware) to get new function, please choose the right firmware to 			
Module 3	upgrade.If you use a wrong file, the device may not work.			
Module 4	 Upgrade will keep a long time, please do not turn off the power, otherwise the device will not work. 			
Module 5	5. Atter upgrade, you must reboot device mandaity.			
Module 6				
► TS Config				
► IP Stream	Current Software Version: 01.01.07 Build 153.01 Nov 12.2019			
▶ OSD	Aussent Handware Version			
System	Current Hardware version: 0101.24			
oy otom	step 1: select type: Host ~			
Network	step 2: select file: 浏览 未选择文件。			
Password				
 Continueting 				

Figure-19

System→ Date/Time:

Clicking "Date/Time", it displays the screen as Figure-20 where to set date and time for the device.

welc	2019-12-25 10:28:39 [EN 中文]
Summary	DATE TIME
Status	
Parameters	
Module 1	1970-01-01 00:16:12
Module 2	Timezone: (GMT) Greenwich Mean Time, Dublin, Edinburgh ~
Module 3	NTP Server 1:
Module 4	NTP Server 7
Module 5	
Module 6	NTP Server 3:
TS Config	NTP Server 4:
IP Stream	NTP Server 5:
▶ OSD	
System	Set Timezone Set NTP Update from browser
Network	
Password	
Configuration	
▶ Firmware	
▶ Date Time	
him	¢
	Figure-20



System→ Log:

Clicking "Log", it displays the log interface as Figure-21 where to check or export the Kernel/System log.

× + Webserver 0 × ♠ (€ ③ | 192.168.0.136/index.php 🛛 😻 ल 🔸 🖽 🤊 - 🚍 日移动设备上的书签 Encoder welcome 2019-12-25 10:29:02 [EN | 中文] [Exit] LOG ▶ Status Parameters Auto Refresh: 0 Log Type: Kernel Log Module 1 [0.000000] Booting Linux on physical CPU 0x0 Module 2 0.000000] Linux version 3.19 0-xilinx (root@localhost.localdomain) (gcc version 4.9.1 (Sourcery CodeBench Lite 2(0.000000] CPU: ARMv7 Processor [413fc090] revision 0 (ARMv7), cr=18c5387d Module 3 Module 4 0.000000] CPU: PIPT / VIPT nonaliasing data cache, VIPT aliasing instruction cache 0.000000] Machine model: xlnx,zynq-7000 Module 5 Module 6 0.000000] cma: Reserved 16 MiB at 0x0d800000 0.000000] Memory policy: Data cache writealloc ► TS Config 0.000000] On node 0 totalpages: 65536 0.000000] On node 0 totalpages: 65536 0.0000000] free_area_init_node:node 0, pgdat 40596180, node_mem_map 4fdf0000 0.0000000] Normal zone: 512 pages used for memmap 0.000000] Normal zone: 0 pages reserved ▶ IP Stream ▶ OSD System 0.000000] Normal zone: 65536 pages, LIFO batch:15 0.000000] PERCPU: Embedded 9 pages/cpu @4fdd2000 s8128 r8192 d20544 u36884 Network ▶ Password 0.000000] pcpu-alloc: s8128 r8192 d20544 u36864 alloc=9*4096 0.000000] pcpu-alloc: [0] 0 [0] 1 ▶ Configuration ► Firmware 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages: 65024 0.000000] Kernel command line: console=ttyPS0,115200 root=/dev/ram rw earlyprintk Date | Time

Figure-21

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Chapter 4 Trouble shooting

CATCAST's ISO9001 quality assurance system has been approved by CQC organization. For guarantee the products' quality, reliability and stability. All CATCAST products have been passed the testing and inspection before ship out factory. The testing and inspection scheme already covers all the Optical, Electronic and Mechanical criteria which have been published by CATCAST. 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
