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## **1 Product Introduction**

The XVR is a professional video surveillance and storage equipment, it adopt embedded Linux operation system, support high-efficiency H.264 video compression standard, advantage hard disk storage technology and multiple network protocols, realize high image quality, low bit rate,long time storage and strong network transmission and management functions,also can done the preview,control and playback in local interface.

The XVR can apply in bank,communication,electricity,judiciary,traffic, education,hotel,community and factory video surveillance systems.

## 2 Installation

## 2.1 Open-package Inspection

Please check the product package if there is damage first when you get it. The protective material of product package can suffer most of unexpected impact during transporting. Then take out the device, take off the plastics protective film and check it if there is damage. At last, open device case, check the connection of all cables if loose.

## 2.2 Hard Disk Installation

a, use a cross screwdriver to unscrew the screw in device case , then open the case.

- b, fix the hard disk in the baseboard via screws
- c, connect the hard disk data cable and power cable
- d, close the device case, fix it via screws

## 3,Local operation guide

## 3.1 Boot operation

## 3.1.1 Launch

Connect power adapter,put on power switch,then power light on. Connect XVR with monitor via HDMI or VGA cable, there will appear boot guide interface.

## 3.1.2 Boot Guide



Select "cloud" to enable cloud service function.

Select "Do not prompt", XVR will not appear the Guide interface.

Click "Next Page" top enter next option, click "Cancel" to exit the Guide settings directly.

【Cloud Setting】



Scan IOS and Android QR code to download and install the mobile app, then scan the SN QR code to add the XVR to mobile app(please reference mobile app user manual).

Click "Next Page".

【General Config】

GeneralConfig		
System Time	2016 - 09 - 07 11 : 28 : 58	
DST	Set	
Date Format	YYYY MM DD	
Date Separator		
Time Format	24-HOUR	
Language	ENGLISH	
HDD Full	Overwrite	
DVR No.		
Video Standard	PAL	
Auto Logout/min		
Machine Name	LocalHost	
Guide		
	Pre Page Next Page Ca	ncel

Configure XVR time,time format,date,date format,language,video standard, auto logout time,click "Next Page"

## [Network Config]

	NetConfig
Net Card	Wire Netcard -
DHCP Enable	
IP Address	172 - 16 - 25 - 99
Subnet Mask	255 · 255 · 255 · 0
Gateway	172 - 16 - 25 - 1
Primary DNS	202 - 96 - 134 - 133
Secondary DNS	
Network Testing	34567
HTTP Port	80
мти	
HS Download	
Transfer Policy	Quality Preferred
	Pre Pane Nevt Pane OK Cancel

Configure XVR network parameters, click "Next Page"

[User]

			User	
3 1 2 3	User Name admin ∎ guest ∎ default	Group admin user user	Status Web Normal Default User	
	ify User		Add User Add Group Delete User Delete C	ìroup
Mod Mod	fy Group			

Configure user account name, password and permission, click "Next Page".

## 【Hard Disk】



Fomat hard disk and check the status, click "Next Page"

## [Save Config]





## 3.2 Right Click Menu

After launched normally, right click screen window, there will appear the menu as shown below.



(Main Menu)

Click to enter main menu interface

[View 1]

Select one channel to display single channel video

[View 4]

Select four channels to display four channels video

【Guide】

Click to enter Boot Guide interface

## [PTZ Control]



Click "PTZ Control" to enter PTZ control Interface, then you can control speed, zoom, focus, iris and directions. Click "Page Switch"

PTZ Co	ntrol:01
No. 0	Preset
Pattern	Tour
AutoScan	AutoPan
Flip	Reset
Page Switch	Canaal
r ugo ormon	Cancer

Set preset place, pattern, tour and scan, click "Page Switch"



Set light, click "Page Switch".



Enter and set camera menu

## 【Coaxial Control】

с	oaxia	l control		
Channel	1			
		00	Zoom Focus Iris	+ + +

Click "Coaxial Control" to enter coaxial control interface.

ľ	[Preview Signal]					
	Signal					
	Mode	All	1	2		
	AHD	0	0	0		
	TVI	0	0	Ο		
	CVI	0	0	Ο		
	auto	0	0	$\bigcirc$		
		Ok	<		Cancel	

Click "Preview Signal" to enter preview signal selection interface, to set AHD/TVI/CVI signal preview

## 【Color Setting】

	Color	Setting:02		
Period	- 00:00		19 :00	
Brightness		50		50
Contrast	—	50	—	50
Saturation	—	50	—	50
Hue		50	I	50
Gain	- I		- I	
Acutance			—	
2D Noise Reducti	on <b></b>	32	-1	32
3D Noise Reducti	on			
	Default C	color Co	ру ОК	Cancel

Click "Color Setting" to enter color setting interface, then you can set the image parameters of XVR.

[Record Mode]

Mode         All         1         2         3         4           Schedule         Image: Imag
Schedule OOOO
Manual OOOOO
Stop OOOO

Click "Record Mode" to enter record mode interface to configure schedule/manual/stop record mode.

## 3.3 Main Menu

Login system to enter main menu interface



Default password is null, click "OK"



## 3.3.1 Playback

Click "Playback" icon to enter playback interface



Select playback time, channel and record type, click "Search", then there will display the detailed storage time on the time line, click it at any time, there will playback the record in window.

## 3.4.2 Record Backup

Click "Backup" icon to enter record backup interface

Backup		
Channel	1	_
File Type	All	
Туре	Read/Write	
Start Time	2016 - 09 - 07 00 : 00 : 00	
End Time	2016 - 09 - 07 11 : 38 : 36	
Backup format	H264	
Remove Search O Channel File Na	ume Length	
Required Remaining:0.00 KB/0.00 KB		

Insert U disk into USB port,select backup channel,file type,record time and format,click "Search",there will show the detailed record files in below list. Select the record file,click "Backup" to done the backup operations.

## 3.4.3 Network Config

Click "Network Config" icon to enter enter configuration interface.

#### 3.4.3.1 Network

	Netw	vork Config.
Network	Net Card	Wire Netcard
DDNC	DHCP Enable	
DDNS	IP Address	172 · 16 · 25 · 99
UPNP	Subnet Mask	255 · 255 · 255 · 0
	Gateway	172 · 16 · 25 · 1
EMAIL	Primary DNS	202 · 96 · 134 · 133
Cloud	Secondary DNS	8 · 8 · 8 · 8
Wifi	Network Testing	
	TCP Port	34567
Wireless Config	HTTP Port	80
Net Service	MTU	1500
Het Octvice	HS Download	
	Transfer Policy	Quality Preferred
		OK Cancel Applicatio

Click "Network" to enter network parameters interface to configure XVR IP address, subnet mask.gateway,DNS address,ports,etc...

#### 3.4.3.2 DDNS

	Netw	ork Config.		
Network	DDNS Type	CN99		
DDNR	Enable			
DDNS 7	Domain Name	your.3322.org		
UPNP	User Name			
	Password			
EMAIL				
Cloud				
14/26				
vviii				
Wireless Config				
Net Service				
		ок	Cancel	Application

Click "DDNS" to enter DDNS settings interface, configure DDNS function can support remotely visit XVR via domain address.

## 3.4.3.3 UPNP



Click "UPNP" to enter UPNP settings interface, enable UPNP to realize auto-map all ports (Note: The router also need enable UPNP function)

#### 3.4.3.4 Email



Click "Email" icon to enter email settings interface, configure email function can support alarm email linkage.

## 3.4.3.5 Cloud

	Net	work Config.		
Network DDNS UPNP EMAIL Cloud > Wifi Wireless Config Net Service	Enable Server IP Port Device ID IOS	www.tops1 34600 sa039/232 Android	ink.net SN	
		Default	OK Cancel	Application

Click "Cloud" to enter cloud settings interface.Enable cloud function to support P2P connection via mobile App,web and CMS.

#### 3.4.3.6 Wifi

Network Config.						
Network DDNS UPNP EMAIL Cloud	SSID	Authentication	Signal			
Wifi >	Search					
Wireless Config	Enable DHCP Enable					
Net Service	SSID	11n-AP				
	IP Address					
	Subnet Mask					
	Gateway	192 - 168				
		-	ок	Cancel	Application	

Click "WiFi" to enter WiFi settings interface. Configure WiFi function to connect WiFi router with wireless (Note: this function need XVR connect WiFi module)

## 3.4.3.7 Wireless Config

Network Config.						
Network	Enable					
DDNC	Туре					
DDNS	Wireless AP	CMNET				
UPNP	Dial Number	*99#				
	User Name	ctnet@mycdma.cn				
EMAIL	Password	•••••				
Cloud	IP Address					
Wifi						
Wireless Config >						
Net Service						
		OK Cancel Application				
		Cancer Application				

Click "Wireless Config" to enter wireless dial-up settings interface, enable it to realize 3G/4G wireless connection function (Note: this function need XVR connect 3G/4G module)

#### 3.4.3.8 Net Service

		Network Config					
Network	PPPO	E ARSP RTSP I	TP NTP				
DDNS	Enabl	e		1			
UPNP	User	Name					
EMAIL	Passv IP Add	dress 0					
Cloud							
Wifi							
Wireless Con	fig						
Net Service	• •						
			OK Cance	I Application			
Click	"Net	Service"	function,	then	you	can	configu

PPPOE/ARSP/RTSP/FTP/NTP functions

## 3.4.4 Alarm

Click "Alarm" icon to enter alarm management interface

## 3.4.4.1 Motion Detect

	5 2	Alarm		
Motion Detect >	Channel			
Video Blind	Enable			
VIGEO DIITIG	Sensitivity	Middle		
Video Loss				
	Region	Set		
Alarm Input	Period	Set		
Alarm Output	Interval/Sec.			
Alanni Odiput	Delay/Sec.			
Abnormality	Alarm Output	1		
	Record delay/Sec.			
	Record Channel	1234		
		1234		
	PTZ Activation	Set		
	Other	🖂 Show Message	🔲 Send Email	
		Buzzer	FTP upload	
		Advanced OK	Cancel Application	

Click "Motion Detect" to enter motion detection alarm settings interface.

Select channel number and enable it, configure sensitivity, region, period and alarm linkage.

#### 3.4.4.2 Video Blind

Alarm						
Motion Detect	Channel					
Video Blind >	Enable					
Video Loss	Sensiuvity					
Alarm Input	Period	Set				
Alarm Output	Delav/Sec.					
Abnormality	Alarm Output	10				
	Record Channel	1234				
	Tour PTZ Activation	1234 Set	>			
	Other	Show Message Send Email				
		Advanced OK Cancel Applic	ation			

Click "Video Blind" to enter video blind alarm settings interface.Select channel number and enable it,configure sensitivity,region,period and alarm linkage.

### 3.4.4.3 Video Loss

		Alarm	
Motion Detect Video Blind	Channel Enable	1	
Video Loss > Alarm Input	Period	Set	
Alarm Output Abnormality	Delay/Sec. Alarm Output	10 1	
	Record delay/Sec. Record Channel Tour	10 1234 1234	
	PTZ Activation Other	Set	Send Email
		Buzzer	FTP upload
		Advanced OK	Cancel Application

Click "Video Loss" to enter video lost alarm settings interface.Select channel number and enable it,configure sensitivity,region,period and alarm linkage.

## 3.4.4.4 Alarm Input

Alarm						
Motion Detect Video Blind	Alarm In Enable	1				
Video Loss	Туре	Normal Open *				
Alarm Input	Period	Set >				
Alarm Output	Interval/Sec. Delay/Sec.					
Abnormality	Alarm Output Record delay/Sec. Record Channel Tour	1 10 1234 1234				
	PTZ Activation Other	Set Show Message Send Email Buzzer FTP upload				
		Advanced OK Cancel Application				

Click "Alarm Input" to enter alarm input alarm settings interface.Select channel number and enable it,configure sensitivity,region,period and alarm linkage.

## 3.4.4.5 Alarm Output

		Alarm			
Motion Detect	Alarm Type	All			
	Configuration	0	0		
video biina	Manual	0	0		
Video Loss	Stop	0	0		
at a service state of	Status				
Alarm Input					
Alarm Output 🔸					
Abnormality					
			ОК	Cancel	Application

Click "Alarm Output" to enter alarm output linkage settings interface and configure it.

## 3.4.4.6 Abnormality

Alarm					
Motion Detect	Event Type	No Disk •			
Video Blind	Enable				
Video Loss					
Alarm Input	Show Message				
Alarm Output					
Abnormality >					
		OK Cancel Application			

Click "Abnormality" to enter abnormality alarm settings interface.Select the event type and enable to configure it.

## 3.4.5 HDD Manage

Click "HDD Manage" icon to enter hard disk management interface

### 3.4.5.1 HDD Manage

HDD Manage						
HDD Manage 🔉	Disk Nu	DiskSpace	Status	prop	perty	Required/R
HDD Info	1-1	0.00 MB	Error	Red	undant 📍	0.00 MB
			Forr	nat Disk	Recover	Application

Select hard disk, click "Format Disk" to format the HDD, then you can check the hard disk status and set the property.

#### 3.4.5.2 HDD Info

				HDD	Manage			
HDD Manage	SATA	1						
HDD Info >	All 1-1		T	ype ?	Capacity 0.00 MB	Left Capaci 0.00 M	ty Stat	-
						View recor	ding times	Cancel

Click "HDD Info" to enter hard disk info interface to check the detailed capacity and status.

## 3.4.6 Record

Click "Record" icon to enter record settings interface.

		R	ecord			
Record >		Channel Redundancy				
		Length/min PreRecord/Sec.	10 5			
		Mode	O Schedule	O Manual	O Stop	
		Week	Wed			
		Period	Regular	Detect	Alarm	
		00 :00 - 24 :00	<u> </u>	<u> </u>		
		00:00 - 24:00				
		00:00 - 24:00				
		00 :00 - 24 :00				
			Advanced	OK Can	cel Application	

Select record channel,configure record length,prerecord time,record mode and record period,click "OK".

#### 3.4.7 Channel Management

Click "Digital" icon to enter channel management interface

## 3.4.7.1 Channel Status

		Digital		
Channel status >	Chappel	Max recolution	This Pesalution	Erama D
	CAMOI	102001	Linknown	Linkr
ChannelType	CAM02	1080N	Unknown	Unkr
7	CAM03	1080N	Unknown	Unkr
	CAM04	1080N	Unknown	Unkr
	G/ unio i	robolit	onatoan	eriid
		l)		
				Cancel

Click "Channel Status" to check the detailed channels status

## 3.4.7.2 Channel Type

				Digital					
Channel status			Analog ch	nannels			Digital o	channels	
ChannelTune 1		1080P	1080N	720P	D1	1080P	960P	720P	D1
channen ype 🕨			4						
			2			2 4			
	м	aximum	Playback	large: 4		ОК	Canc	el App	lication

Click "Channel Type" to enter channel type selection interface. Check and select the channel mode, click "OK".

### 3.4.8 System

Click "System" icon to enter system settings interface.

## 3.4.8.1 General

	Sy	rstem	
General >	System Time	2016 - 09 - 07 11 : 41 : 34	
Frinds	DST	Set	
Encode	Date Format	YYYY MM DD	
GUI Display	Date Separator		
	Time Format	24-HOUR	
PTZ Config	Language	ENGLISH	
Tour	HDD Full	Overwrite	
Tour	DVR No.	0	
Output Adjust	Video Standard	PAL	
	Auto Logout/min	0	
Restore	Machine Name	LocalHost	
R\$232	Guide		
HOLDE			
Account			
		OK Cancel Applic	ation

Click "General" to enter system general settings interface, then you can configure

the system time,date,format,language,video standard etc.

## 3.4.8.2 Encode

	s	ystem	
General	Channel		
Encode a	Compression	H.264	Extra Stream1
Encode >	Resolution	1080N(960x1080)	<ul> <li>CIF(352x288)</li> </ul>
GUI Display	Frame Rate(FPS)	25	<b>▼</b> 6 <b>▼</b>
,	Bit Rate Type	CBR	VBR ·
PTZ Config	Quality	high	✓ low
<b>T</b>	Bit Rate(Kb/S)	3072	▼ 140
Tour	I Frame Interval	2	2
Output Adjust	Video/Audio		
Restore RS232 Account		Advanced OK	Cancel Application

Click "Encode" to enter encode settings interface.Select channel number and configure the compression,resolution,frame rate,bit rate and I frame interval settings.

## 3.4.8.3 GUI Display

	:	System	
General	Channel Title	Set	
Encode	Encode Video Out		
Lincout	Channel		
GUI Display >	Time Display		
	Channel Title		
PTZ Config	Set		
Tour	Region Cover	0	
Output Adjust	5 0.4		
Restore	Front video Out		
Restore	Time Display		
RS232	Channel Title		
	Record Status		
Account	Alarm Status		
	Deflick		
	Transparency	<b>——</b> 175	
	Resolution	1024*768	
		OK Cancel Applicat	ion

Click "GUI Display" to enter GUI display settings interface, then you can configure the detailed channel display settings

## 3.4.8.4 PTZ Config

		System		
General		PTZ Device	RS485 Device	
Frenda	Channel			
Encode	Protocol	PELCOD	* NONE	
GUI Display	Address		1	
	Baudrate	9600	• 9600 ·	
PTZ Config >	Data Bits	8	- 8 -	
Teur	Stop Bits	1	T 1	
Tour	Parity	None	None	
Restore RS232 Account		ок	Cancel Application	
		UK.	Cancer Application	

Click "PTZ Config" to enter PTZ settings interface, configure the parameters, click "OK".

#### 3.4.8.5 Tour



Click "Tour" to enter tour settings interface, enable and select the tour channels and interval time.

## 3.4.8.6 Output Adjust

	Syst	em		
General	Top Deflate		_ 0	
	Bottom Deflate		_ 0	
Encode	Left Deflate	ī — — —	_ 0	
GUI Display	Right Deflate	1	_ 0	
	Black vertical		— 50	
PTZ Config	Black horizontal		— 50	
	Display Settings	VGA/HDMI		
l our	Brightness		_ 50	
Output Adjust >	Contrast		_ 50	
1 1	Saturation		_ 50	
Restore	Hue	I	_ 50	
00000				
N3232				
Account				
		Default	ок	Cancel
		- Conduit		

Click "Output Adjust" to enter output adjust interface to configure output image parameters.

### 3.4.8.7 Restore

	s	ystem			
General	Select all	Π			
Encode	General	ō			
Elicode	Encode				
GUI Display	Record				
	Alarm Set				
PTZ Config	Network				
Tour	Net Service				
1 Odi	Output Settings				
Output Adjust	Account				
_	RS232				
Restore >					
RS232					
Account					
			ОК	Cancel	Application

Click "Restore" to enter restore settings interface, select the menu and click " OK" to restore the settings back to factory.

### 3.4.8.8 RS232

		System	
Conservat			
General	Function	NONE	
Encode	Baudrate	115200	
	Data Bits	8	
GUI Display	Stop Bits		
	Parity	None	
PTZ Config			
<b>T</b>			
rour			
Output Adjust			
Restore			
RS232 >			
Account			
		OK Capcel	Application
		OK Calicel	Application

Click "RS232" to enter RS232 settings interface to configure the parameters

## 3.4.8.9 Account

		System			
General Encode GUI Display PTZ Config Tour Output Adjust Restore BS232	3 User Name 1 ■ admin 2 ■ guest 3 ■ default	Group admin user user	Statt Web Norr Defa	us nal nult User	
Account >		Add User	Add Group	Delete User	Delete Group
	Modify User				
	Modify Group				>
	Modify Pwd				>
				Update	Cancel

Click "Account" to enter user account management interface. You can do the operations to add, delete and modify the account name, password and group.

## 3.4.9 Advanced

Click "Advanced" to enter advanced settings.

#### 3.4.9.1 Version

		Advanced	
Version LOG BPS Online User	<ul> <li>Record Channe Alarm In Alarm Output System Build Date MAC Sociella</li> </ul>	Advanced 1 4 4 1 1.02.01a40196.37627053.T000.0 2016-08-01 14:02:43 c8:22:02:10:8b:ef ==00000b:e	
Device Info.	Nat status	5:Connected	
Upgrade			
AutoMaintain			
Import/Export			ОК

Click "Version" to check the XVR version info.

## 3.4.9.2 Log

	Advance	ed			
Version	Туре	All			
100	Start Time	2016 - 09 - 07 00 : 00 : 00			
LUG	End Time	2016 - 09 - 08 00 : 00 : 00			
BPS	Search				
Online User	24 Log Time	Туре			
Device Info.	2 2016-09-07 11:06:47 2 2016-09-07 11:06:47	save system state Log In			
Upgrade	4 2016-09-07 11:07:02 5 2016-09-07 11:07:02	Log Out Log In Sava Configuration			
AutoMaintain	6 2016-09-07 11:07:31 7 2016-09-07 11:07:51	Save Configuration Save Configuration			
Import/Export	8 2016-09-07 11:07:51 9 2016-09-07 11:07:51 10 2016-09-07 11:07:54	Save Configuration Save Configuration Set Time			
	11 2016-09-07 11:08:30 12 2016-09-07 11:13:29	Log In Set Time			
	Pre Page Next Page	Remove Cancel			

Click "Log" to enter log management interface.Select log type,start time and end time,click "Search",there will shows the detailed log info in the below list

## 3.4.9.3 BPS

				Advanced	a internet		
Version		Channel	Kb/s	MB/h			
LOG		1	30 31	6			
BPS		3	31	6			
Online User	L		51	Ū			
Device Info.							
Upgrade							
AutoMaintain							
Import/Export							

Click "BPS" to check the channels bit rate status.

#### 3.4.9.4 Online User

Advanced							
Version	User Name	IP	Login Type				
LOG	admin	172.16.25.100	vved				
BPS							
Online User 🔹							
Device Info.							
Upgrade							
AutoMaintain							
Import/Export							
			Disconnect Cancel				

Click "Online User" to check the current online user status

#### 3.4.9.5 Device Info

Advanced						
Version		Audio In Channels	A			
		Alarm In Channels	4			
LOG		Alarm Out Channels	1			
BPS		GUI Theme	Gene	ral		
		Remote control type	Gene	ral		
Online User		Pad Type	SING	ECHIP		
Device Info		Maximum Playback large	4			
Device into.	1	Default playback large				
Upgrade		4				
		Enable RS232	$\overline{\mathbf{A}}$			
AutoMaintain		Enable PTZ	$\mathbf{\mathbf{i}}$			
Import/Export		CVBS				
importexport						
				OK	Cancel	Application
				UK	Cancel	Application

Click "Device Info" to check the XVR hardware configuration info

## 3.4.9.6 Upgrade

Advanced					
Version	Ungrade Position				
100	Upgrade file •				
LOG					
BPS					
Online User					
Device Info.					
Upgrade >					
AutoMaintain					
Import/Export					
	Upgrade Cancel				

Click "Upgrade" to enter system upgrade interface, copy firmware file in U disk, then insert it into XVR USB port, select upgrade file,click "Upgrade".

#### 3.4.9.7 Auto Maintain

	Adva	nced			
Version	Auto-Reboot System	Never			
LOG	Auto-Delete Old Files	Never			
BPS					
Online User					
Device Info.					
Upgrade					
AutoMaintain >					
Import/Export					
			ок	Cancel	Application

Click "Auto Maintain" to enter auto maintain interface, you can set the auto-reboot time and auto-delete old files.

## 3.4.9.8 Import/Export

Advanced						
Version	Device Name					
LOG	File Name	1 og 09071143 zin				
BPS	Export	Log_03071140.21p				
Online User	File Name	Cfa 1 02 01-40106 27627052 T000 0, 000				
Device Info.	Export	Cig_1.02.01240190.37027033.1000.0_090				
Upgrade	Ella Niama					
AutoMaintain						
Import/Export >						
		Cancel				

Click "Import/Export" to enter import and export configuration file interface, you can do the import and export system configuration file operations.

## 3.4.10 Logout

Main Menu							
PlayBack Record	Logout Logout Shutdown Reboot OK Cancel	Manage Ogout					
Output the Content of the Content	OSD menu or reset/restart the system.						

Click "Logout" icon to enter logout system interface.Select logout,shutdown and reboot, click "OK".