

## VB26 guide

#### Accessing the unit

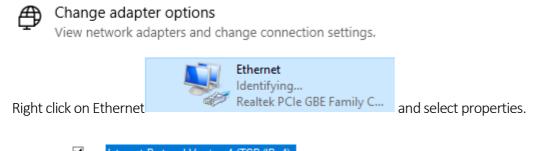
By default, a VB26 comes configured in the following way. VBOX address: 192.168.1.100 Pre-set camera address: 192.168.1.101

Changing your network adaptor

To access the unit, attach the ethernet cable to your pc/laptop and into the ethernet adaptor of the VBOX. When plugging in the connector to the VBOX make sure that the cables for the ethernet socket are on the right if you have the VBOX socket facing you and the SIM/SD card slots on the right side.

On the taskbar at the right on your computer, you should see one of these 2 icons right click on it and then select open Network & Internet settings then click on:





Highlight 🗹 💶 Internet Protocol Version 4 (TCP/IPv4) and click the properties button.

On this next screen, we need to change your pc/laptop's IP address so it can connect to the VBOX Click use the following IP address and put in 192.168.1.10 and click on the subnet mask below and it will populate for you, leave the others blank and click OK (remember once you have finished configuring the VBOX to change this window back to how it was before).

Open a webpage and type in 192.168.1.100:8080 and press enter you will be greeted by a Password box this is blank so just press 'Enter' to access the configuration page (The password can be set later).

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#### Main page

_Cameras: ⊙
No. Profile Status
1 Camera V Configure Logo, Decoding+hw
2 <u>Create new</u>
⊢Encoders: ⊙———
Standard Encoder ID: VBOX2801018SB-n unless overridden.
No. Profile Status
1 Encoder  Configure Found Create new
$_{\Box}$ System settings: Click to expand $\bigoplus$ ———————————————————————————————————

There will already be a camera set up with the IP address of 192.168.1.101 a username of admin and a password of 42!Password and an encoder pointing at vma.vemottion.com port: 8002.

#### Camera configuration

VB-26 Configuration - CAMERA					
Camera Name: <mark>Camera <b></b></mark>					
SAVE Cancel					
Camera So	ource	0			
ONVIF Details	Enter o	letails for ON	VIF based ca	mera.	
Address	Port	User	Password	Profile	
192.168.1.101	80	admin	42!Password	e.g. profile1	Switch to URL
RECORDING Allow: Max Retention: 2 Days •					
Advanced ⊕					
SAVE Cancel		Delete			

This is where cameras are added to the system input the cameras details (leave the profile blank for the system to pick the profile for you).

You can enable recording function for the camra here also.



Once done click save and you will be taken back to the main page where you will need to click restart to apply changes.

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#### Camera advanced settings

VB-26 Configuration - CAMERA							
Camera Name: Camera < rename me?							
SAVE Cancel							
Camera S	ource	• O—					
ONVIF Details	Enter of	details for		/IF based ca	amera.		
Address	Port	User		Password	Profile		
192.168.1.101	80	admin		42!Password	e.g. profile1	Switch to URL	
RECORDING Allow: ✔ Max Retention: 2 Days ▼							
⊢Advanced ⊙							
RTSP Transport: tcp Software MJPEG Threads: 2							
Hardware H 264 Decode:  ✓ Software H 264 Threads: 3 Persistent Decode:  ✓2							
SAVE Cancel Delete							

sw decoder dedicates to h264 decode.

### Er

ncoder configuration				
B-26 Configuration	1 - ENCODER			
ne Config as: Encoder	< change me <u>?</u>			
/E Cancel				
Streaming Server O				
Host Address Port	SSL/TLS			
vma.vemotion.com 8002	None •			
Camera Selection $\oplus$ ———				
Profiles ⊕				
Socket Tunnels 🕀				
Idvanced Options ⊕				
/E Cancel Delete				

RTSP Transport: The RTSP transport we request from the camera.

Hardware H.264: ON or OFF If we are using HW decode.

Persistent Decode: hover over the "?" for more info.

Software MJPEG: How many threads we use to decode MJPEG streams if Hardware decode is disabled. (our software decoder is single threaded, and some CPUs aren't fast enough to decode 25fps, so we create two decoders on different threads and decode 12 fps alternately on each.

Software H264: The number of threads our

Name the encoder and point it at the server you require, change the port, add any encryption if needed and save.

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#### **Camera Selection**

VB-26 Configuration - ENCODER
Name Config as: Encoder < change me?
SAVE Cancel
_Streaming Server ⊕
Camera Selection Select the camera(s) to use for this encoder 1 - Camera 2 2 3 4 4 2
Profiles
Socket Tunnels ⊕
Advanced Options ⊕
SAVE Cancel Delete

Set up which camera is used by this encoder.

#### Profiles

VB-26 Configuration - ENCODER
Name Config as: Encoder < change me?
SAVE. Cancel
⊢Streaming Server ⊕
Camera Selection ⊕
┌Profiles ⊙
Live auto profile:
Min Width: 176 Min FPS: 1.0
Max Width; 1920 Max FPS; 30
Aspect Ratio arbiter: Use source aspect & adjust profile
Autofill profiles: fps base: 30fps • Populate: Default D1 Default D1 Widescreen Clear
Fixed profiles: WxH fps kbs
Profile 1: 256x144 1 6
Profile 2: 256x144 4 20
Profile 3: 512x288 1 20
Profile 4: 512x288 2 50
Profile 5: 512x288 6 100
Profile 6: 512x288 15 200
Profile 7: 512x288 30 200
Profile 8: 512x288 30 400 Profile 9: 1024x576 1 130
Profile 10: 1024x576 1 130
Profile 10: 1024x576 5 400
Profile 12: 1024x576 10 400
Profile 13: 1024x576 30 400
Profile 14: 1024x576 30 600
Profile 15: 1024x576 6 1200
Profile 16: 1024x576 30 1200
Profile 17: 1280×720 30 2400
Profile 18:
Profile 19:
Profile 20:
┌Socket Tunnels ⊕
Advanced Options ⊕
SAVE Cancel Delete

Profiles can be adjusted here from the defaults as required.

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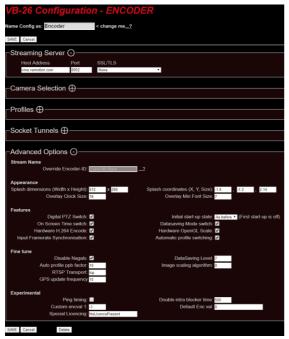
VB26 guide

#### Socket tunnels

VB-26 Configuration - ENCODER						
Name Config as: Encoder < change me?						
SAVE Cancel						
⊖Streaming Server ⊕						
_Camera Selection ⊕						
Profiles ⊕						
Socket Tunnels O Total max bitrate: 300 kbs No data timeout: 80 minuntes						
Tunnel index: Host:port Socket 1: 192.168.1.101:80	Protocol: Description:					
Socket 2:	Other •					
Socket 3:	Other •					
Socket 4:	Other •					
Socket 5	Other •					
Socket 6	Other T					
Socket 7:	Other 🔻					
Socket 8: localhost:8080	http VB-26 Config Pages					
Socket 9: localhost:22	ssh 🔻 VB-26 User Login					
Advanced Options						

These allow you to remotely access web pages through the V264player such as the cameras web ui cameras and the unit itself are added in automatically.

#### **Encoder Advanced options**



Stream name: change this is you wish to set a custom encoder ID.

Appearance: These settings are for the OSD when streaming.

Features: These are all self-explained .

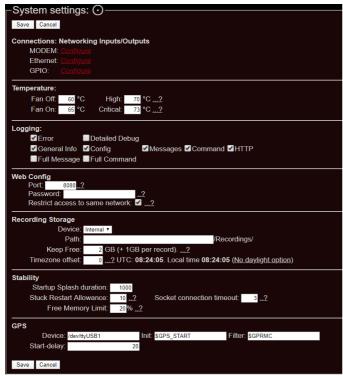
Fine Tune: These are all self-explained.

Experimental: Ignore unless told to change by Vemotion.

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#### System settings



Hover over the "?" to get more information on items not covered in the guide.

Logging: Here you can set what logs will be created to view later if needed.

Recording: Internal is the unit and external is the micro SD card if in place.

#### GPS

Device: Is the dev filesystem path to the GPS device. (If you have other USB things plugged in it is possible this is different. Init: Is the string required to start the GPS

unit.

Filter: Is which GPS string we want to pass on.

Start-delay: Is how many seconds we wait

before trying to start the GPS device.

#### Modem

PLY Can	cel	
SIM ()		
APN		
Username		
Password		
Advanc	ced O	
	mbor: 1994	Chao ne Aleaner Estatuete
	erface:	
	MTU: 1410	
Extrapo	ararres	
org/freedi	esktop/HodenHanager	1/Modew/# (device 1d "7e992aard9888111182cad2c21d3118er7ba8a1")
Hardware	1 montations	'Storra Mirclass, Incorporated'
Har George		ALLY IN MALALINE, AND AVENUE. (V145)
		STREED 4 20 10 40 40 1 17702 CARAD BY FAMALE 2010/07/13 40:24/12
	supported:	
		ito gan unto, ito:
	current -	gab urta, zoo
		100720424110
		//yy/doulos/blatien//dou/dol8888.usb/do <del>0008</del> 8.dec3/dec1/ledi.edi.euro/usb1/li1/li1/ Tent wang, escental:
		Set when shows at
	primary port:	
		'ttyUSB0 (qcdm), ttyUSB1 (unknown), ttyUSB1 (unknown), cdc wdm0 (gw1), wward (not), cdc wdm1 (not), cdc wdm1 (not)'
Ranbars		Telepant
manucity		u Aroan
		'urkovan'
	failed reason:   power state:	
	access tech:	
	signal quality:	
		'allawid: 2g, 3g, 4g preferred: soor' 'allawid: any preferred: soor'
	corrent:	allowed, any, preterve: none
	supported:	"stran 3, stran 3, stran 4, stran 6, stran 5, stran 1, sstran 1, sstran 3, sstran 4, sstran 6, sstran 7, sstran 8, sstran 12, sstran 13, sstran 15, sstran
		"ipu4, ipu4ud"
	supported:	itor, ipor, iporto
Bearvers	I paths:	

When you have put a SIM into the unit you will have to put in the networks APN and possibly a username and password.

In the Advance tab you can see if the SIM is connected as well as what bands and modes the modem allows.

In the change modem firmware menu, you can choose a firmware such as Verizon or AT&T.

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Ethernet
Editing: Wired
APPLY Cancel
_NET ⊙
IP Address: 192.168.1.100 / 24
Subnet: 255 ¥ 255 ¥ 255 ¥ 0 ¥
_Advanced ⊙
Default Route:
DNS:
Interface: enP2p1s0
Extra params:
APPLY Cancel

Here you can change the default network address and add DNS if needed. Interface refers to the name of the ethernet device in the unit.

#### GPIO

Editing: GPIO					
SAVE	Cancel				
Inpu	ts				
	No inputs available				
Outp	Outputs				
	No outputs available				
Save	Cancel				

This will populate if any interfaces are connected to the unit via USB.

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#### Log files

E Menu Configuration System Info Logout	notic	n			
Maintenance	Upgrades	BOX2801018			
Vemotion Website	Logfiles	Watch live			
–Cameras: ()—	Restarts	Current active			
No. Profile	Backup / Restore	Previous 1			
	<u>re</u> Logo, Decoding+hv	Previous 2			
2 <u>Create</u>	<u>new</u>	Previous 3			
	Previous 4				
-Encoders: ()-		Previous 5			
No. Profile	Standard Encoder ID: VBOX2801018SB-n unless No. Profile Status				
	Configure Found	Previous 7			
2	<u>Create new</u>	Previous 8			
System settings: Click to expand					

Here you can access log files that you may wish to view or Vemotion may ask for when assisting you.

#### Backup and restore

### notion 6 Help: Config backup/install nfiguration files can be backed-up or restored via removable media (USB or SD card). Backup Create the folder vb22-backup and insert the removable media. Camera and encoder configuration files will be backed-up to vb22-backup/app-config. Network configuration files will be backed-up to vb22-backup/network-config. nce backed-up, the configuration files can be installed on another device by renaming the folder vb22-backup to vb22-install. Install

Configuration files can be installed from removable media (USB or SD card) from the folder vb22-install.

- Network configuration files will be installed from vb22-install/network-config.
  Camera and encoder configuration files will be installed from vb22-install/app-config.

you have installed Network configurations you must do a **full reboot** for the network to start. you have installed camera/encoder config you must do a **quick restart** to load these settings. ote: Existing configuration files will be automatically backed-up to vb22-backup prior to installing any new configuration files. The backup directory will be created if it does not exist.