VB-30 Quick Setup Guide

Box contents

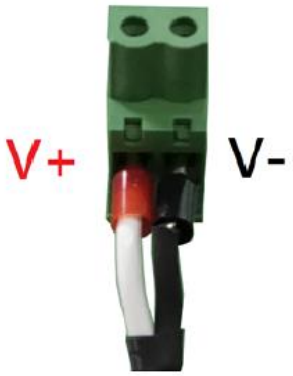
VB-30 Encoder
2 Pole power connector
4 channel BNC to 9-Way D-SUB connector
12v 5A power supply with bare ends (optional)
DVI to VGA (optional)
GSM modem (optional)
USB extension (optional)
Female 9-Way D-SUB for PTZ (optional)

Hardware setup

Power supply

The VB-30 uses a 2-pin pluggable terminal block to accept 8~35V DC power input. This provides a way for directly wiring to DC power. To connect DC power via the 2-pin pluggable terminal block, please follow the steps listed below.

1. Make sure the external DC power supply is power off or disconnected before wiring.
2. Locate the 2-pin pluggable terminal block from the box supplied. The terminal block fits the wires with a gauge of 12~24 AWG.
3. Ensure you identify the positive and negative contacts of your DC power supply and the pluggable terminal block. The polarities between DC power supply and terminal block must be positive (+) to positive (+) and negative (-) to negative (-).



4. Find the 2-pin power plug on the VB-30 which accepts the terminal block. It's located on the right-side of back panel.

5. Push the terminal block into the power plug until it's firmly attached. Now you can supply the DC power and operate your POC-200.

Caution

The VB-30 accepts 8~35 VDC when using terminal block for DC input. Please make sure the voltage and polarity of DC power is correct before you connect it to VB-30. Supplying a voltage over 35V will damage the system.

Video

The VB-30 uses a 4 channel BNC to 9-Way D-SUB connector cable for video connectivity. This cable is plugged into the port indicated below using the 9-Way D-SUB connector. The camera feed(s) are then connected to the BNC connectors labelled 1 to 4. The port could be labelled COM4 or VIDEO.

Data

If supplied, a 3G or 4G mobile data modem is used to connect the VB-30 to the internet. A SIM card with a data allowance is required for the modem to operate. Dependant on the SIM card operator you may have to enter the operator's APN, user and password in to the profile configuration web pages of the 3G/4G modem. This can be done using a PC or laptop. Please refer to the data modem manufacturers documentation online to configure the modem. Once the modem is configured it can simply be plugged into the VB-30 for normal operation.

The VB-30 also can be connected to the internet via a local area network. There are two RJ45 Gigabit Ethernet network connections on the front panel. The port on the right as shown below is configured to use DHCP unless a DHCP server is not available, in which case it will failback to the alternate IP address 192.168.2.253 with a subnet of 255.255.255.0. The port on left as displayed below is only configured to use a DHCP server and therefor one is required for network connectivity.

Pan, Tilt & Zoom

The VB-30 is capable of controlling many PTZ cameras using multiple protocols pre-programmed into the software. The hardware connection is be made using RS232 or RS485 COM ports on the back panel. RS232 output can be configured to use COM port 2 or 3 as shown below. These ports use the standard COM port RS232 pinout.

RS485 output is configured on COM1 (indicated below) using PIN 2 (TX+) and PIN 8 (TX-).

Software setup

Configuration

The VB-30 can be configured using a USB disk and configuration file called 'update.ini'. The update.ini file has to be formatted correctly and must be saved to the root of the USB disk (for example f:\update.ini). The update.ini file can be edited using Windows notepad but we would suggest you download and install notepad++ from https://notepad-plus-plus.org/ to edit the file. The file can be created and edited manually but you can also request a pre-formatted file from orders@vemotion.com. The file can be sent with your settings already entered if you provide the relevant information when you request it.

The encoder requires an IP address or FQDN (vma.vemotion.com) to connect to the Vemotion Streaming Server software. If the system is to be used over the internet the Vemotion Streaming Server IP address must be a public static address or must have the relevant ports open and forwarded to the Vemotion Streaming Servers internal IP address, if a router is used.

If the Vemotion Streaming Server TCP ports are changed from default (8000) then the encoder needs to be configured with the correct ports. This can also be done in the update.ini file.

The encoder uses a unique 'Stream ID' to identify which stream to connect to on the Vemotion Streaming Server. This 'stream ID' has to match identically with one configured on the Vemotion Streaming Server.

To change the Vemotion Streaming Server IP address, port and Stream ID on the encoder the following lines must exist in the update.ini file.

```
[ENCODER]
SERVERHOST=
SERVERPORT=
STREAMID=
```

To modify the settings append the IP address, port and stream ID to the end of each line.

```
[ENCODER]
SERVERHOST=195.216.12.222
SERVERPORT=6000
STREAMID=VB-30-XXX
```

To leave any encoder settings unchanged comment out the line(s) as below.

```
[ENCODER]
SERVERHOST=vma.vemotion.com
;SERVERPORT=
STREAMID=VB-30-YYY
```

Additional settings can be modified using the update.ini file. For more information email orders@vemotion.com.

Once you are happy with your settings, save update.ini to the root of a USB disk (eg. f:\update.ini).

It is advisable to ensure the encoder has been powered on for at least 2 minutes before inserting the USB disk into one of the encoder USB ports. Wait for approximately 30 seconds for the changes to take effect before removing the USB disk.

The encoder will now be configured to use the Vemotion Streaming Server, port and stream ID specified in the update.ini file. Please check your Vemotion Streaming Server to confirm the encoder connection has been successful.

More information relating to the Vemotion Streaming Server configuration can be found in the online guide downloadable from http://vma.vemotion.com/downloads/docs/supportguide.