

PTZ Terminal Block

DIO/RS485

IN15	IN13	IN11	IN9	GND	IN7	IN5	IN3	IN1	GND	OUT4	OUT3	OUT2	OUT1	TRX+	TRX+
IN16	IN14	IN12	IN10	GND	IN8	IN6	IN4	IN2	GND	COM	COM	COM	COM	TRX-	TRX-

Only the far right TRX+ and TRX- terminals are used for PTZ RS485 connectors
(Pinout will be slightly different based off the # of camera channels your DVR has)

Default Settings for the Vertex DVR

- All Cameras are enabled and recording continuously 24/7
- Motion Detection if enabled is set to look at the entire screen and the sensitivity is set to Medium.
- Date and Time info (can be changed one at a time from Menu/MainSetup/Date & Time and then over to Date & Time)
 - Date – internal time clock will bring up the correct date when system is powered
 - Time – set to (GMT – 06:00) Central Time
 - NTP Time Server is Off
- Network Settings (Statically assigned through the Rugged CCTV test network)
 - IP Address – 192.168.1.12
 - Subnet Mask – 255.255.255.0
 - Default Gateway – 192.168.1.1
 - Both DNS #'s completely left as 0's
 - These will more than likely need to be changed to be able to communicate with the customers network
- User names and Passwords (these can be Modified/Added/Deleted from Menu/Main Setup/System/User Level)
 - At the DVR
 - Admin and 00000
 - User1 and 1111
 - User2 and 2222
 - User3 and 3333
 - User4 and 4444
 - On the CMS remote software – the initial Administrator password is 1111111, and when you are adding your DVR into the address book the user name is user1 and 1111111 for the password



Quick Reference Guide



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- Follow power up instructions to power unit. To shut the system down hit Power button and input password.
- Enter/Select on this DVR is the middle button of the circle of buttons on the front panel and the remote control.
- To enter into most menu functions you must be logged into the system. Do this by pressing Menu / Login / and entering the password for the selected user.
- Some menu functions require password input. When asked select user name, input password and press enter/select to continue.
- If you make a mistake in any menu press Esc to exit out and start again.
- Extra copies of manuals, remote software, etc can be found at <http://www.rugged-cctv.com/downloads.shtml>

Recording Methods – Press Menu / Main Setup / Recording Setup (make sure and save all settings before exiting out).

Continuous Recording

- Under Recording Setup, the Mode for each camera should be set to Continuous.
- Adjust Resolution, Quality and Rate under the same Recording Setup Menu. For each camera change the values on that cameras corresponding row, and for all cameras make your changes on the column heading.

Motion Based Recording

- Under Recording Setup, go to Mode and change it to Motion.
- For the motion detection to look at the entire screen, in Recording Setup, under the Event section where it says Moti. make sure it is set to full.
- For the motion detection to look at only certain portions of the screen, in Recording Setup, under the Event section where it says Moti. for each camera, make sure it is set to partial and you will be given a masking screen for that particular camera. All squares are set to detect as default, so when you select each square it turns it off, and motion will not be detected in that area.
- To adjust the sensitivity for the motion detection go under the Event category where it says Moti and press enter. It will give you the sensitivity that can be adjusted up or down.
- When changing motion base recording check sensitivity later. Sensitivity varies widely per camera type and camera position.

Viewing Screens – change the monitor viewing screens

- One camera Full Screen - press the Up arrow button (keep pressing it to see different channels).
- 4 camera screens all at once - press the left arrow button (keep pressing it to see different 4 channel groups).
- 9 camera screens all at once – press the down arrow button (keep pressing it to see different 9 channel groups).
- 16 camera screens – press the right arrow button.
- Sequencing - to sequence one camera full screen for all cameras that are enabled, or 4, or 9 start on the monitor split you desire and then press the Enter button (to turn it off press the Enter button again).

Search – You can Search or go directly into Playback

Search

- Press Search and you will see a calendar screen of the current month (you can toggle to previous months if you need to).
- Any day that has a red triangle in the upper left hand corner, is a day there are archives you can search through.
- Select your day and the unit will open that day into 24 hour segments.
- Go to the hour you want to view and the DVR will open that hour into 60 minute segments.
- Go to the minute you want to see and press Play. You will be taken into the playback screen for all cameras. Press Play again.
- See the manual on page 38 for more information and options.

Playback

- You can also simply hit the Play button. This will take you directly into the playback screen. Once you are there you can Press Menu again and you will get the Playback Menu.
- See the manual on page 27 for more information and options.

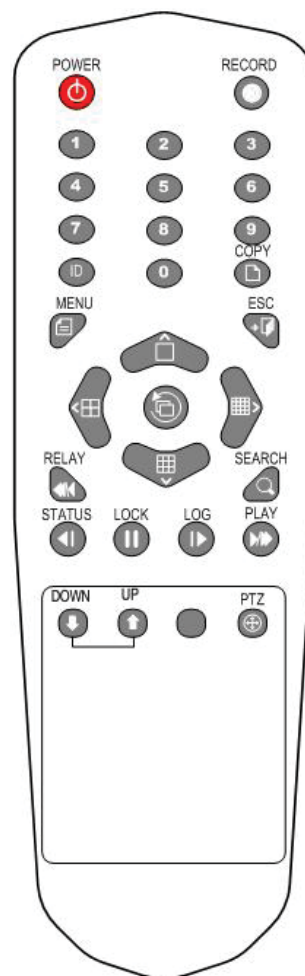
Back Up – to make a back up copy of video or still image onto a CD/DVD or USB 2.0 memory stick with 32GB max

- Must format any USB 2.0 stick in the DVR prior to the first back up being made. **The stick will be fully erased.**
- To format the stick, insert the USB device into the DVR, press Menu / Main Setup / Storage and press enter, go down to the tab that says direct, and then over to the New tab. Your stick will appear. Press Enter as many times as it lets you and it will be formatted. Once the stick disappears go to the back up tab and the stick should be present. Then you can Esc back out to live mode.
- You will now need to access playback and figure out exactly which cameras, and what dates and times need to be copied. At this point you need to have your disk or stick in the DVR. While you are still in playback, press Copy / Back Up. Select your device, and then once your media has been read, change the data in the back up screen to match what you need and press Enter on Ok. It will ask if you want to make the back up and press Enter again. You will see a percentage of the data copied, and then it will tell you when it is complete and when you can remove the stick.
- To view the back up you must use the DVR quickviewer that was automatically placed on your media from the DVR, or you can use the Local Playback section of your CMS software.

Network Connection – you must install the CMS software onto each PC you want to access the DVR from, or you can access it through Internet Explorer on most PCs.

- Connect the DVR into your router with a standard Ethernet cable (cannot use cross over cable unless you are going direct to a PC).
- How to Find Correct Network Information to put in the DVR from your router (the info in the DVR is from the test Network at Rugged CCTV).
 - On a regular PC connected into the same router as the DVR go to Start / Run / type in cmd and press Enter / type in ipconfig and press Enter / then write down the IP, Subnet Mask and Gateway from your computer (you will enter the exact Subnet Mask and Gateway into the DVR, the IP will be slightly different).
 - **Example of info from your PC**
 - IP – 192.168.1.100, Subnet Mask – 255.255.255.0, Gateway – 192.168.1.1
 - **Example of info you would input into the DVR**
 - IP – 192.168.1.200, Subnet Mask – 255.255.255.0, Gateway – 192.168.1.1
 - The LAN box needs to be checked.
 - All DNS numbers need to be left as 0's.
- **How to find your static IP coming into your router at the DVR**
 - On a regular PC plugged into the same router as the DVR open up a regular web browser screen, erase everything in the address line and type in www.whatismyip.com and it will give you back the IP address you will use for the off site connection
 - If you have a dynamic address coming into your router please call 866-301-2288 and ask for dynamic tech support on a Vertex DVR and we will assist you in the rest of the setup of your DVR.

Vertex Remote Control



A. Basic Control Buttons

	POWER	Turns the system power ON or OFF
	RECORD	Records all channels or stops recording all channels
	NUMBER	Enables input of numeric data
	ID	Sets up the remote controller ID

B. System Operation and Setup Buttons

	MENU	Data, Schedule, System Set up
	ESC	Exits the current menu or selects the upper menu
	SEARCH	Searches recorded images
	SELECT	Selects the category or executes automatic screen conversion
	COPY	Copy Recorded Video
	PTZ	Shifts to PTZ camera control mode
	MOVE	Moves from one category to another or changes the display mode
	UP/ DOWN	Speed and Volume Control

DVR Network setup – Menu / App Setup / Network press enter and it will put you on the IP address

- Go to whichever number you need to alter and press enter. Input the correct information and then save and exit. Repeat this step for all numbers you need to change. Save all settings on the Network screen and exit out completely.

Ports to open to the IP address in the DVR

- 2000-2007, 9100 and 80 if you want to be able to view the DVR through IE
- All in the TCP direction
- For help with Port forwarding go to http://www.portforward.com/English/routers/port_forwarding/routerindex.htm

Remote Access through a PC

- IE - just input the LAN IP or static IP if you are off site and press enter. Enter user name (user1) and password (1111111) on port 2000.
- CMS software – install software, input CMS Administrator password to get into the DVR. You will then need to click on the address book button.
- If you have multiple DVRs the port ranges of 2000-2007 must be changed to 3000-3007, and so on for each subsequent DVR. You must also match the port forwarding info for each subsequent DVR in your router.

Changing HDD – if you ever have a faulty hard drive and you need to change it out, follow these instructions.

- Shut system down and remove power from the unit entirely.
- Remove top of DVR, unplug both power and data connections from the hard drive(s), remove hard drive(s), insert replacement hard drive(s), screw it down into place, plug in both power and data cables, restore power to the system, and reboot DVR.
- Once the DVR has rebooted fully log into the DVR from the main menu, then go to Menu/Main Setup/Storage and press enter. Go down to the Direct tab, over to the New tab, and press enter as many times as it asks you to. You will be selecting the HDD you want, and formatting it into Direct storage. Once the drive disappears, repeat this process for all drives. Then go back to the Direct tab and the new drive(s) should appear and say online or active and healthy. ESC out back to the live screen and you should see a yellow button that says Over Wt.