



VTC703AHD

VTC703AHD-Q2

VTC703AHD-Q4

7" 1080P Full HD Digital
Wireless 2/4 Channel Monitor and Camera System
with Digital Video Recorder

USER MANUAL



Please read the instructional complete before use and keep it for future reference.

Product Features

- 1080P Full HD Image Quality System
- 7" All View Angle IPS TFT LCD Panel
- 4 Channel Wireless Monitor with Single, Dual, or Quad View
- Waterproofed, Heavy Duty Wireless Camera
- Reliable Wireless Operational Range up to 300 ft
- Built-in Camera Microphone for Audio Monitoring
- Built-in DVR for Audio/Video Recording up to 4 Channels
- Easy Installation and Operation

Contents



Monitor Set
(1x)



Camera Set
(1x for 1Ch)
(2x for Q2)
(4x for Q4)



12V Adapter
Power Chords
(2x for Ch)
(3x for Q2)
(5x for Q4)





Mounting HW

Before Installation

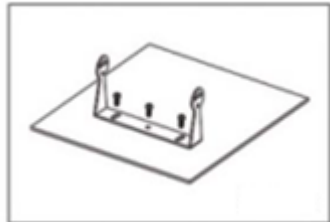
- Please check contents.
- Perform bench test. Ensure the product is working before installation by connecting the monitor and the camera to 12VDC.
- Perform pre-install test, before mounting the monitor and the camera. In very rare instances, a running engine causes interference, resulting in image freezing and jerky object movements. In such situation, the monitor and the camera need to be moved and positioned at various places to determine the best performance position.
- For recording, please use the high speed C10 SD memory card.

Wiring

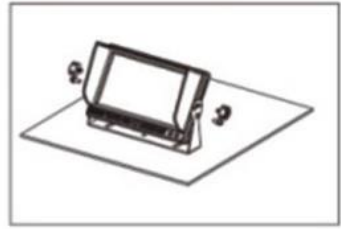
<p>a. Monitor wiring:</p> 	<p>Use 12V Adapter. Or Use a power chord. Power cord RED: to ACC+ BLACK: to ground / chassis</p>
<p>b. Camera wiring:</p> 	<p>Use a power chord. Power cord RED: to ACC+ BLACK: to ground / chassis</p>

Monitor Installation

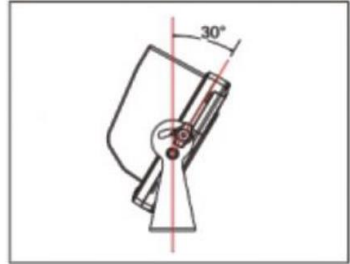
- a. Install the monitor bracket using the 3 self-tapping screws.
- Screw in the center.
 - Adjust the angle.
 - Tighten all screws.



- b. Install the monitor using 2 bolts on each sided.
* Do not tighten bolts.

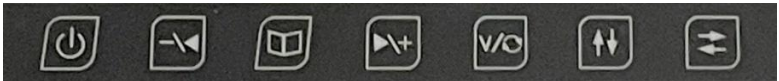


- c. Adjust the monitor angle.
* Tighten all bolts.



Operation








The wireless camera system is operated using the buttons on the front face of the monitor. These are 7 buttons.










Each button has different function in three different modes. Three different modes are **Split Screen Multi- Channel Display Mode**, **Single Channel Screen Display** and **Menu Display Mode**.

1. Monitor Button Functions








Split Screen Multi-Channel Display Mode

Button	Function
	Screen Display On / Off
	Audio Channel -
	-
	Audio Channel +
	Display Mode: Display Channel 1
	Flip Screen Display Vertically
	Flip Screen Display Horizontally

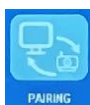
Single Channel Screen Display Mode

Button	Function
	Screen Display On / Off
	Brightness -
	Enter Menu Button
	Brightness +
	Display Mode: Next Channel
	Flip Screen Display Vertically
	Flip Screen Display Horizontally

Menu Mode

Button	Function	
	Screen Display On / Off	
	Previous Menu Item	- Decrease
	Exit Menu	
	Next Menu Item	+ Increase
	-	
	-	
	Select Submenu	Confirm

2. Menu Button – Single Channel Screen Display Mode



Pairing:

By pairing assign a camera to each channel



Picture Setting:

Brightness, Contrast, Saturation, Audio Volume



Picture Orientation:

Flip L/R, Flip U/D



Screen Display Settings:

Dual, or Quad split screen on/off



Camera Settings:

Camera on/off, Display Scan time



System Settings:

Set date/time, Set parking guidelines



Playback:

Play back recorded video



Record Settings:

Format SD, Rewrite on/off



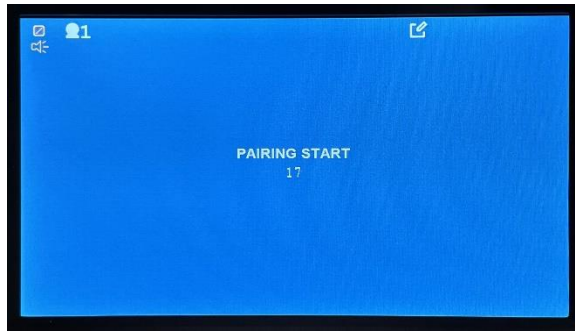
3. Pairing:

For a wireless camera to transmit video to a monitor, each camera must be paired with specific monitor channel (or screen division).

In the following example, Ch 1 has been selected (Ch 1 single screen display mode).


Menu button is pressed.

'Pairing' is selected and the monitor starts count-down immediately.



During the count-down, unplug and plug the camera power, couple of times.

When pairing is successful, the camera video will be displayed.

To stop pairing, press the menu button ()



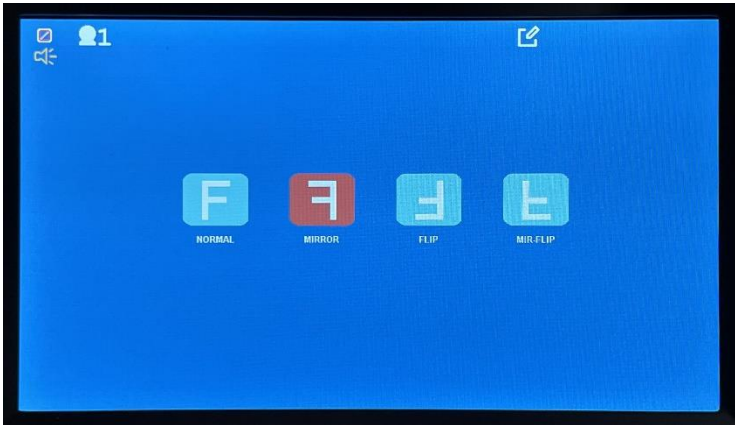
4. Picture Settings:



	Decrease		Increase
		Brightness	
		Contrast	
		Hue	
		Volume	



5. Picture Orientation:



Normal Camera pointing forward:

An object at the **front-right** side of the vehicle is displayed on the right side of the screen.

Normal Camera pointing backward - installed as a rearview camera:

Flip image horizontally. An object at the **rear-right** side of the vehicle is displayed on the right side of the screen.

Normal Camera installed upside down:

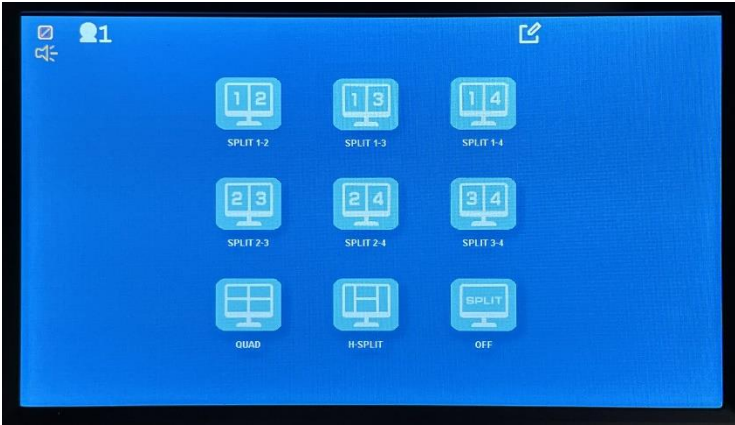
Rotate the image (180 degrees) to get the normal view.

Rear view camera installed upside down:




Flip horizontally and rotate the image (180 degrees) to get the normal view.










6. Screen Display Setting:




The screen divisions, applicable to enabled cameras in “Camera Settings” are enabled (white colored) and non-applicable screen divisions are disabled (grayed out).

Use  or  button to the enabled screen division, and then use the OK button to select. Selected screen divisions will pink background .

VTC703AHD-Q2: There are only two cameras and if they are paired with Ch 1 and Ch 2, then only  will be enabled for selection. Other 2-screen divisions (,  and ) will be disabled (greyed-out).

VTC703AHD-Q4: If Camera 2 is turned off in the camera setting menu () , the screen divisions, (, ) will be disabled from selection and grayed out.

When ‘Split Off’ () is selected, the split screen display will not be displayed.



7. Camera Settings:



ON: Selected camera is monitored and recorded.

OFF: Not monitored. Not recorded.



Auto Scan Time. Set the duration time for each channel to be displayed during auto scanning for monitoring purposes.



Auto Scan ON or OFF. Display a camera for the specified auto scan time and display next camera for the specified auto scan time. And so on.

Defaults:

VTC703AHD-Q2: Camera 1 and Camera 2 are turned on from the factory.

VTC703AHD-Q4: All cameras are turned on from the factory.



8. System Settings:



Set System Time

Select UI Language

Auto Dim On or Off. The setting dims the display when it becomes dark

Trigger off display – Not available in this version

Parking guidelines on/Off

Reset system to the factory defaults

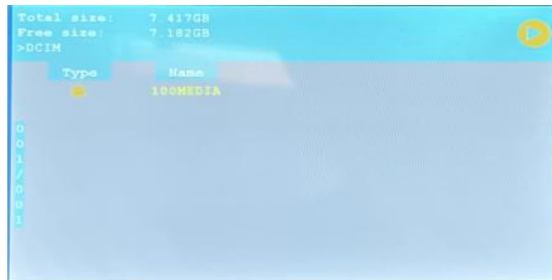



9. Playback Recording:

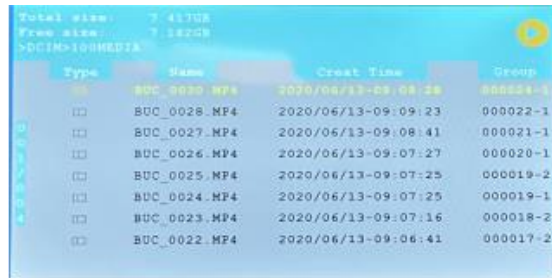
The recorded video can be played on the monitor.




Here are steps:

- From the main menu, select 'Play' and the available storage media will be displayed.



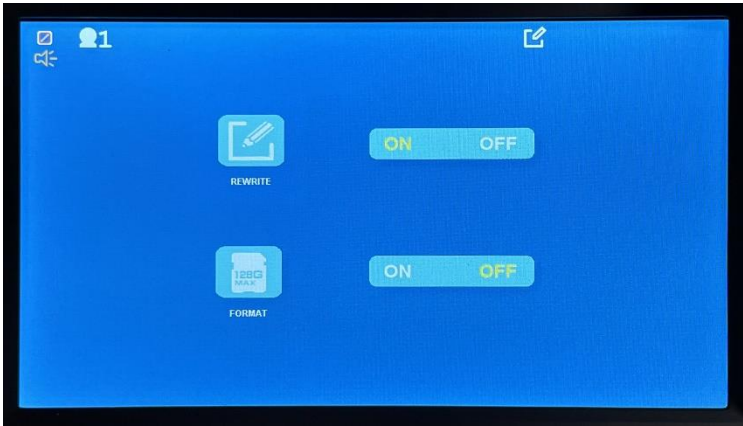
- Select a storage media (by clicking the  button) and the recording list will be displayed.



- Use 'Up'  or 'Down'  button to a video file (.MP4) and press the 'select'  button and the selected video will be played.
- The recorded video can be played by a PC media player. Remove SD card and place it in a PC.



10. Record Settings:



ON: Overwrite the oldest recording when storage is full.

OFF: Stop recording when storage is full.



ON: Format SD card. Support up to 128GB Class 10

Monitor, Camera and Wireless Specifications

1. Monitor Specification

Panel:	7" Digital Panel TFT IPS panel
View Angle:	Full Angle of View
Resolution:	1024*600
Display Ratio:	16:9
Audio:	Built-in Speaker with Volume Control Buttons
Image Control:	Reverse / Non-Reverse (Horizontal Flip)
Parking Guidelines:	Display / No-Display (Selectable)
Operating Voltage :	DC12V & DC24V (MAX. to 36V)
Power Consumption:	Less than 5W
Max. Current:	Less 450mA
Storage temperature:	-30°C ~ 80°C
Working temperature:	-20°C to 70°C

2. Camera Specification

Image Sensor:	1/3 CMOS sensor
Effective Pixels:	1920 x 1080
Video Transmission:	1080P AHD
View Angle:	170° (Diagonal)
IR Night Vision:	IR
Night Vision IR distance:	up to 12ft
Audio:	Microphone Built-in
Environment:	IP68
Operating Voltage:	DC 12V & 24V
Power Consumption:	< 5W
Max. Current:	< 450mA
Storage temperature:	-30°C ~ 80°C
Working temperature:	-20°C to 70°C

3. Wireless Specification

Operating frequency:	2.4GHz~2.4835GHz
Output Power:	17±1dBm @Typ 20dBm@max (if necessary)
Modulation Type:	FSK/GFSK
RX Sensitivity:	-89dBm(Typical)@4MHz BER:<1E-3
RF Bit Rate:	4MHz BER<1E-3
Spread Spectrum:	FHSS
Distance:	> 300 ft Open Line of Sight

4. DVR Specification

Recording:	Per channel
Resolution:	640x480 or 1024x608
Frame per Second	30fps
Memory Card	SD Class 10 or above
Storage Size	Max. 128GB

WARRANTY INFORMATION

This one-year limited warranty is given to the end-user or the retail purchaser (referred to this warranty as “Original Purchaser”) that it will be free from defects in material and workmanship for a period of one year from the date of the purchase of the new product (excluding accessory items such as power cords, cradle, memory card, adaptor, and cables).

This limited warranty does not cover any physical damage to, or misuse of, this product, damage caused by improper installation; improper use; misuse; neglect; repair of cracked, scratched, broken or modified cosmetics; or parts that have been altered or removed; damages done by another device used with this product resulting from use of non BOYO®-brand parts. This warranty is VOID if you purchased this product as used, floor model sample, or refurbished; if the product has been altered or modified in any way (including but not limited to attempted repair without authorization from BOYO®- Vision Tech America, Inc. and/or alteration/removal of the serial number).

For warranty information, visit: <https://www.visiontechamerica.com/get-warranty>

For technical support:

Call: (888) 941-3060

Email: info@visiontechamerica.com

Visit: www.VisionTechAmerica.com