



Asus Mimic CX200 User Manual

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User Manual

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ASUS CX200 Internet Camera



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Summary of Contents for Asus Mimic CX200

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[Page 5: Chapter 1 Introduction](#)

Chapter 1: Introduction Section 1. Features ASUS Mimic CX200 is a compact stand-alone web-server capable of remote video surveillance. It can be accessed from anywhere in the world via a standard browser by entering the IP Address, account and password. Each system can support an additional USB PC cameras be it regular, infra-red or pan-tilt.

[Page 6](#) • Support USB PC Camera with VIMICRO ZC0301 Plus processor built-in • Resolution available: 640x480 (VGA), 352x288 (CIF), 320x240 (QVGA), 176x144 (QCIF), 160x120 (QQVGA). • Frame Rate: Up to 15fps in 640x480, Up to 20fps in 320 x 240. • Motion JPEG streaming video ASUS CX200 Internet Camera...

[Page 7: Section 2. Asus Mimic Cx200 As A Remote Surveillance System](#)

Section 2. ASUS Mimic CX200 as a Remote Surveillance System Once ASUS Mimic CX200 is installed, the user can check any of the connected PC cameras using a standard web browser. The user can monitor and control these cameras simply by entering the IP address shown on the LCD into a Browser.

[Page 8: Section 3. Package Contents](#)

2. Quick Installation Guide 3. Utility CD containing: a. Utility: to configure IP address, update the firmware, etc. b. MultiMonitor: to monitor multiple ASUS Mimic CX200 cameras. c. Time Server: Time adjustment utility. d. Adobe Acrobat 5.0 Reader. e. ASUS Mimic CX200 User Manual f.

[Page 9](#) ASUS Mimic CX200 Front and Back view ASUS CX200 Internet Camera...

[Page 10: Chapter 2 Hardware Installation](#)

Chapter 2: Hardware Installation The following details the hardware installation procedure for ASUS Mimic CX200 IP camera. Section 1. Installation Procedure (Without PoE Injector) 1. Connect the Power Adaptor to the mini USB port. 2. Connect the LAN cable to a router.

[Page 11: Chapter 3 Web Interface Section 1. Introduction](#)

2. On a PC (located in the same LAN), open a Web Browser (eg.: Internet Explorer, Netscape, Mozilla Firefox or Opera) 3. Enter the IP Address as shown on the ASUS Mimic CX200 LCD display and press ENTER Enter ASUS Mimic CX200 IP address 4.

[Page 12: Section 2. Using The Web Interface](#)

Section 2. Using the Web Interface The ASUS Mimic CX200 webpage main menu is divided into two sections. The selection menu on the left and display menu on the right. The selection menu consists of the following options: 2.1 View Video 2.2 Information...

[Page 13: To View Video](#)

Java. Choose either Camera A or B to view the video. By default the first USB camera connected to ASUS Mimic CX200 will be Camera A ActiveX can only function in Windows platform. When using for the first time ActiveX plug-in will setup automatically on the client's computer.

[Page 14](#) Save As window will pop up. Choose an alternate location or filename. To change Video Codec, click Click Save to confirm changes. Digital Zoom In, Digital Zoom Out Rotate Left, Rotate Right Flip the image vertically. ASUS CX200 Internet Camera...

[Page 15](#) Click this to Marquee an area and zoom into that area. Click this to reduce the image resolution. Click this to increase the image's resolution. Click to digitally zoom in or out. Click to rotate the image. Flip the image vertically. ASUS CX200 Internet Camera...

[Page 16: Information](#)

2.2.2 Current Connections 2.2.3 Event Log 2.2.1 System Status This webpage displays all the information relating to ASUS Mimic CX200. i. System Information This section shows general hardware information such as the Hardware and Firmware Version, the serial number, current / local System Time, the system name, contact, location and uptime.

[Page 17: Current Connections](#)

Click Block IP to block or disable the account of any errant viewer. To unblock the IP goto Basic Settings Account Settings Blocked IP List and delete the blocked IP Address from the Blocked IP List. ASUS CX200 Internet Camera...

[Page 18: Event Log](#)

2.2.3 Event Log This section will keep a record of all events that occurred in ASUS Mimic CX200. The user can Refresh, Clear or Save the log file. There is also an option to sort the logs according to "Level" or "Type". ASUS Mimic CX200 can log up to 2,000 events.

[Page 19](#) / windows, select Outdoors. Maximum Number of Connections (1-30) Use this to limit the total number of users that can view this camera at the same time. Location Enter a suitable location / name for the camera. ASUS CX200 Internet Camera...

[Page 20: Network](#)

Choose Yes and ASUS Mimic CX200 will increase the lighting of the image. This is useful when monitoring indoors. Choose No if you do not want ASUS Mimic CX200 to compensate for bright indoor lighting and view the images as is.

[Page 21](#) To learn more about the above, see Appendix C: IP address, Subnet and Gateway Obtain an IP address This allows the user to choose either to set ASUS Mimic CX200 LAN IP address; manually, using DHCP (default) or using Bootp protocol. Click Apply to confirm. ASUS Mimic CX200 will reboot. You MUST manually enter the NEW IP address in your Browser in order to open the Web Interface.

[Page 22](#) Secondary DNS Server IP Use this to set ASUS Mimic CX200 Secondary DNS Server

IP address. ASUS Mimic CX200 will use the Secondary DNS Server IP address if the Primary DNS Server IP address is not working. ASUS Mimic CX200 DNS Server IP iii.

[Page 23](#) Ethernet Connection Type This sets ASUS Mimic CX200 communication speed. By default, it is set to Auto Sense. ASUS Mimic CX200 will reboot, if this setting is changed. ASUS Mimic CX200 Ethernet Settings v. Dynamic DNS ASUS Mimic CX200 Dynamic DNS Settings...

[Page 24](#) Service Provider ASUS Mimic CX200 can be configured to register it's current Dynamic IP with a Dynamic DNS provider. This allows the user to locate ASUS Mimic CX200 using a Domain Name. ASUS Mimic CX200 supports the following free DDNS service providers:
•...

[Page 25: Account Settings](#)

Use Public IP to register Choose Yes to ensure that ASUS Mimic CX200 uses the WAN / Public IP to register with the selected DDNS server. vi. PPPoE Use this option to allow ASUS Mimic CX200 to connect to the internet directly using your xDSL modem.

[Page 26](#) Assign a User Name / Account. The administrator can set up to 32 case sensitive character names. Password Assign a password to the account. The administrator can set up to 32 case sensitive passwords. Permission This sets the access level to individual user accounts. ASUS CX200 Internet Camera...

[Page 27](#) Use this feature to ensure that the user only login from the IP address specified here. Leave it as *.*.*.* to allow the user to login from any place. Example: Entering 192.168.1.* will only allow User to access from 192.168.1.xxx IP addresses. ASUS CX200 Internet Camera...

[Page 28](#) When the Permission level is set to either Operator or Viewer, the Administrator can set the time to which the camera can be viewed. ASUS Mimic CX200 Permit Hours Configuration Click Configure to set the hours. The Administrator can set up to 4 different Permit Hours (in 24hr format).

[Page 29: Advanced Settings](#)

Blocked IP List This allows the Administrator to block specific LAN IP address from accessing ASUS Mimic CX200. Enter the IP address in dotted decimal notation and click Add Block IP. The blocked LAN IP address will be listed at the bottom.

[Page 30: Event Notification](#)

2.4.1 Event Notification This section determines the type of event that will be included if an email notification is sent by ASUS Mimic CX200. Administrator privilege is required to configure this section. i. Event Notification A total of 8 email recipients can be assigned to receive notification.

[Page 31](#) The available Email addresses are listed here. See Section 2.4.4 on how to enter an Email address to the Address Book. To add an email address click Edit. ASUS Mimic CX200 will ask you to save your configuration prior to leaving this page.

[Page 32](#) ASUS CX200 Internet Camera...

[Page 33](#) Motion Detection page (see Section 2.4.2) and Image Recording page (see Section 2.4.3) ASUS Mimic CX200 will email the following notification depending on which event was selected. Event Notification: User Login Details (Date, Time, Camera & IP)

[Page 34: Motion Detection](#)

Event Notification: PPPoE Connect Successful with Public IP shown 2.4.2 Motion Detection This page allows the Administrator to set Motion Detection functions for the cameras. i. Camera A (or Camera B) Motion Detection page ASUS CX200 Internet Camera...

[Page 35](#) Select either; 0.5, 1, 2, 3, 4 or 5 seconds. Stop sending after ... email(s) or image idle for ... second(s) ASUS Mimic CX200 will stop sending emails on the lower of the two conditions. The Administrator can set between 1, 3, 5, 7 and 10 seconds.

[Page 36](#) This will determine the number of digits assignable for the above sequence. The

Administrator can choose to assign between 1 to 6 digits. Click for an example. Send Email
Select Yes to send an email when motion is detected. ASUS CX200 Internet Camera...

[Page 37](#) / FTP configuration page. Click on Motion Detection to return here. (See Section 2.4.4 on Email / FTP configuration) Email Address Book The available Email addresses are listed here. See Section 2.4.4 on how to add an Email address to the Address Book. ASUS CX200 Internet Camera...

[Page 38: Image Recording](#)

Image recording allows the user to receive a string of JPG images to either their email account or FTP account. The images will be sent over a predetermined interval. i. Camera A (or Camera B) Image Recording webpage ASUS CX200 Internet Camera...

[Page 39](#) Send image every ... minute(s)" The Administrator can determine the interval (between 1 to 99 minutes) at which ASUS Mimic CX200 capture and send an image. Send to FTP Server & Send Email This is similar to the function available in Motion Detection page. Please refer to section 2.4.2 above for details.

[Page 40: E-Mail / Ftp](#)

The Administrator will have to enter a valid Account Name and Password to the Email server and/or FTP server. These information has to be setup in order for Event Notification, Motion Detection and Image Recording function to work. Email / FTP settings page ASUS CX200 Internet Camera...

[Page 41](#) Email Settings Email settings E-mail Server The Administrator will have to enter the Email server address here. Email function can only work using standard Email Server and not Web based Email Server, such as yahoo.com ASUS CX200 Internet Camera...

[Page 42](#) Email Server Requires Authentication Select Yes to enter the Account name and Password field below. Account Name Enter the full account name, example; image@asus.com. Password Enter the password for the above account name. Click Apply to save the changes.

[Page 43](#) Click Yes to save configurations and proceed to the following window. Test mail recipient email address c. Enter the Test mail Recipient email address and click Send. d. If the Test Mail is successful, the Recipient will receive the following email message. Confirmation email ASUS CX200 Internet Camera...

[Page 44: System Settings](#)

Up to 20 email addresses can be stored. Click Delete to remove an Email address. 2.4.5 System Settings This page allows the Administrator to set ASUS Mimic CX200 SNMP settings so it can be used by a NMS (Network Management System). ASUS CX200 Internet Camera...

[Page 45](#) The administrator can set an interval for time synchronization. Select either; 1, 3, 12 hours or 1, 10 & 30 days. Time Server Choose the nearest Time Server to your ASUS Mimic CX200 location. The Administrator can choose from the list of a maximum of 30 Time Servers.

[Page 46](#) Select the appropriate time zone. Click Apply to save changes. System Time (yyyy/mm/dd hh:mm:ss) This section is to manually set ASUS Mimic CX200 System Time. The format is pre-determined to: yyyy/mm/dd hh:mm:ss (in 24hr format). Click Manual Adjust to save the changes.

[Page 47](#) This function is not applicable. iv. SNMP Settings SNMP Settings System Name This is to give ASUS Mimic CX200 a name identifiable in a SNMP network. System Contact This is to give the Administrator an identity in the SNMP network. System Location This is to set ASUS Mimic CX200 SNMP location.

[Page 48: About](#)

This set the LAN IP address where the administrator can manage ASUS Mimic CX200 from. It is valid for up to 8 different LAN IP addresses. To manage ASUS Mimic CX200 from any LAN IP addresses leave the field as *.*.*.*...

[Page 49](#) About This section gives crucial information about ASUS Mimic CX200 Firmware

Version, Hardware Version and Serial Number. ii. Save / Restore Settings About page Save Current Configuration Click Save to save the configuration to your PC. The text file will have a default format of YYYY_MMDD_####.cfg.

[Page 50: Chapter 4 View Images Using Pda/Ppc/Mobile](#)

Chapter 4: View Images Using PDA / PPC / mobile ASUS Mimic CX200 supports image viewing from a GRPS / WiFi enabled PDA / PPC / Symbian mobile device. To view the images; a. Make sure that the PDA / PPC / Mobile unit is connected to LAN or Internet.

[Page 51](#) 6KB @ 320x240 vs. 17KB @ 640x480 resolution f. The images are downloaded and displayed one at a time. Click Refresh to download the next image. Click Back to go to the camera page to select a different camera. ASUS CX200 Internet Camera...

[Page 52: Chapter 5 Using The Utility](#)

It will detect the current configuration and take the user through the necessary network setup. a. Click the Utility button to commence installation. b. After the installation is completed, the Utility program will appear in Windows Start Utility. Click this to start the program. ASUS CX200 Internet Camera...

[Page 53](#) MultiMonitor - This is a windows based program designed to allow user to control a large number of ASUS Mimic CX200 IP camera located either in a LAN or WAN. a. Click the MultiMonitor button to commence installation. b. After the installation is completed, iMultiView program will appear in Windows Start All Programs ASUS MultiMonitor.

[Page 54: Section 2. Using The Utility Program](#)

2.1 Setup Wizard Click Setup Wizard to take you through the setup process. 1. Click to select the ASUS Mimic CX200 you want to configure on the right. 2. Click on Setup Wizard. 3. Enter the necessary camera configurations. Choose the appropriate frequency (Indoor 60 Hz, Indoor 50 Hz or Outdoor) to prevent flickering on the video feed.

[Page 55](#) 4. Click Next > to configure the Network Connection. Obtain an IP address by DHCP Choose this if you want your Router to assign an IP address to ASUS Mimic CX200. Use the following IP Address Choose this if you want to enter a fix IP address, Subnet Mask and Gateway for ASUS Mimic CX200.

[Page 56](#) Obtain an IP address by Bootp Choose this if you want to allow ASUS Mimic CX200 to obtain an IP address using Bootp protocol. 5. Click Next > to proceed to xDSL/Cable modem setup. Choose this if you want ASUS Mimic CX200 to connect directly to your xDSL line.

[Page 57](#) An administrator account is necessary to ensure privacy. If you do not want to set one, clear the data in both fields. The fields are case sensitive. 8. Click Next > to confirm these configuration. ASUS CX200 Internet Camera...

[Page 58](#) 9. Click Next > to save and restart ASUS Mimic CX200 with the new configurations. ASUS CX200 Internet Camera...

[Page 59: Launch Mimic Cx200](#)

2.2 Launch Mimic CX200 Click Launch Mimic CX200 or double click the ASUS Mimic CX200 listed in the table to launch it. Click either one to Launch ASUS Mimic CX200 camera. ASUS Mimic CX200 login screen will appear. ASUS CX200 Internet Camera...

[Page 60: Ip Configuration](#)

The ASUS Mimic CX200 webpage will appear. Click ActiveX beside Camera A to view the video images. 2.3 IP Configuration This section allows you to configure the IP address for ASUS Mimic CX200. You do not have to edit this section if you have gone through Setup Wizard earlier.

[Page 61: Ip Address](#)

Choose this if you want to assign a fixed IP address to ASUS Mimic CX200. This is the default setting. Obtain an IP address by Bootp Choose this if you want to allow ASUS Mimic CX200 to obtain an IP address using Bootp protocol. Use the following IP Address Choose this if you want to assign a fix IP address, Subnet Mask and Gateway for ASUS Mimic CX200.

[Page 62: Advanced \(For Password And Http Configuration\)](#)

LAN. i. Device Password (when accessing from Utility) Use this to set an access password when accessing ASUS Mimic CX200 from this Utility. Once set, the IP Address will not be shown on the right display panel (see below).

[Page 63](#) If the Device Password is enabled, the IP Address will be hidden. Once set, Utility will request for the Device Password when you try to click on either, Setup Wizard, Launch Mimic CX200 or IP Configuration button. To remove the password, a.

[Page 64: Upgrade Firmware](#)

80 or other ports (between 1 to 65534). Once the HTTP port number is set to another port (other than 80), the full LAN IP address must be entered in order to access the ASUS Mimic CX200 web interface. Example: If a value of say, 8080 is set as the HTTP port number, then enter http://192.168.0.177:8080 in order to access ASUS Mimic CX200 web...

[Page 65: Refresh](#)

2.6 Refresh Utility will automatically search for any ASUS Mimic CX200 IP cameras that are connected in the same LAN. It will periodically refresh this list to show the latest status. The user can do a manual search by clicking the Refresh.

[Page 66: Chapter 6 Multimonitor](#)

Chapter 6: MultiMonitor MultiMonitor is a program to manage multiple ASUS Mimic CX200. It is able to detect the IP address of all ASUS Mimic CX200 installed in LAN and list them for easy management. For units that are located on WAN, the administrator will have to manually add these in.

[Page 67](#) Fill out the necessary information shown below and click Next >. ASUS CX200 Internet Camera...

[Page 68](#) Click Finish and the MultiMonitor Logon window below will pop up. Just click OK to start using MultiMonitor. The default security Logon name is Admin, no password is set. To set a password, click User Change Password ... New Password ASUS CX200 Internet Camera...

[Page 69: Device](#)

2.1 Device : Start MultiMonitor and press the "Enumerate" button, MultiMonitor will start a search for all the ASUS Mimic CX200 units on the network and list them in the main window. Once detected, the following will show in the main window: This shows that the camera is online and active.

[Page 70](#) Access by ASUS Mimic CX200 Server Address Host Address: Enter either the LAN IP (eg: 192.168.0.30) or Domain Name (eg: webcam.myddns.com) of ASUS Mimic CX200. Remote Port: This is ASUS Mimic CX200 UDP port. b. Access by Image Server Image Server Address: Enter the Image Server Address if available.

[Page 71](#) Highlight the ASUS Mimic CX200 to be deleted from MultiMonitor's list. Click Yes to confirm deletion. Click and the following page will show up: ASUS CX200 Internet Camera Use this function to change ASUS Mimic CX200 IP Address & Port Number.

[Page 72](#) Mirror the Image: To mirror the image. Maximum frame per second: Select from 0.01 fps to a maximum of 30.00 fps. Default is set to 10.00 FPS. Put Date/Time information on image: To have the date and time displayed on captured images. ASUS CX200 Internet Camera...

[Page 73](#) RED which object is being tracked. Track Moving Object: Choose this option to calibrate approximate size of object to be tracked. Image Recording: Click "Start Recording when Motion Detected" to enable the feature. Click the "Details.." button for the following options: ASUS CX200 Internet Camera...

[Page 74](#) Windows Media Player v10. Recording AVI File Path Location where the file will be recorded to. By default, it is recorded to C:\Program Files\ASUS\MultiMonitor. Click Browse to change the file location. Stop after idle for: Set the value between 1 to 100 seconds Send AVI file Notification by Email: Send an AVI file via email in the event any motion is detected.

[Page 75](#) Configure Settings for Email Notification You will need to enter the correct Message Sender Information in order for ASUS Mimic CX200 to send emails. Server Require Authentication Click Settings... then enter your Account Name and Account Password.

[Page 76](#) SNMP Settings Host Name: Provide a Name to identify this device. HTTP Port: Enter the HTTP port assigned for ASUS Mimic CX200. Default is 80, or check Basic Settings Networks Port Number. Location: Provide a location for SNMP manager to track device.

[Page 77](#) Click to view the radio stream and Highlight the ASUS Mimic CX200 unit in the main windows display. ASUS CX200 Internet Camera...

[Page 78](#) 10. Click to bring out zoom, resolution, direction and auto P/T controls. See below. 11. Show the current date and time. Click to record the current image on screen. A window will come up, click Start to start recording to the default file and location. ASUS CX200 Internet Camera...

[Page 79](#) Click and drag to resize the window and its contents. Date and Time display of live streaming video. Click the left side of the viewing window to bring out more control features. ASUS CX200 Internet Camera...

[Page 80](#) A thin line will outline the chosen window size. Release and the program will zoom to the marquee area. Increase the resolution for a better image quality. Click the depressed button to go back to the original window size. ASUS CX200 Internet Camera...

[Page 81](#) Resolution range from 320x240 low/mid/high quality, to 640x480 low/mid/high quality. Clicking once will cause the camera to pan left by 1 deg. Click and hold and the camera will pan increasingly faster to the left. ASUS CX200 Internet Camera...

[Page 82: View](#)

Click once to tilt the camera down by 1 deg. Click and hold and the camera will tilt increasingly faster downwards. Auto Pan (if camera which support this function) 2.2 View Switch between Large or Small icon view ASUS CX200 Internet Camera...

[Page 83: System](#)

2.3 System Display the Event Log (IP address, Port, date, Time, description of event) of the selected ASUS Mimic CX200 unit. Set the SNMP Parameter. 2.4 User "Change Password..." Use this feature to change the User's login password to MultiMonitor. Either Administrator or User can change their Account passwords.

[Page 84](#) Permission: Choose Manager or User. A Manager can change, see, add or delete any of the information in MultiMonitor. A User is not able to Add, Delete or Change Settings of a camera. ASUS CX200 Internet Camera...

[Page 85: Help](#)

Useful when monitoring multiple cameras at a time. Step 1: Select the camera location of your choice. Step 2: Left click, hold and drag it onto the desktop. ASUS CX200 Internet Camera...

[Page 86](#) Step 3: Release the mouse button anywhere on the desktop and a new desktop icon is created there. Step 4: Double click on the icon on the desktop, to view the images. ASUS CX200 Internet Camera...

[Page 87](#) Appendix A: Methods to Update ASUS Mimic CX200 Firmware You can update ASUS Mimic CX200 firmware using any of the following methods. Method 1: Through ASUS Mimic CX200 Web Page (1) Enter the ASUS Mimic CX200 Web Page (2) Go to "About", click "update software" and you will be automatically linked for update.

[Page 88](#) - Classes A for large, B for medium and C for small. The difference among the network classes is the number of octets reserved for the network ID and the number of octets reserved for the host ID. ASUS CX200 Internet Camera...

[Page 89](#) 200 nodes on each LAN. To classify the nodes by its LANs on one main network, this company segments the network address into 100 sub-network addresses. If the Class B network

address is 150.1.x.x, the address can be segmented further from 150.1.1.x through 150.1.100.x
ASUS CX200 Internet Camera...

[Page 90](#) IP that's first two octets match the sender's IP address's first two octets.
255.255.255.0 IP packets are only transmitted to devices that are IP that's first three octets
match the sender's IP address's first three octets. ASUS CX200 Internet Camera...

[Page 91](#) Medium Access Control - The network layer between the physical and the data link
layers. Specifically, the physical (hardware) address exists in this layer. Management
Information Base - The database, i.e. set of variables maintained by a gateway running SNMP
ASUS CX200 Internet Camera...

[Page 92](#) UDP/IP transport layer to move its object between the Agents and the NMS TCP/IP
Transmission Control Protocol/ Internet Protocol - A protocol suite used by more than 15 million
users with a UNIX association and widely used to link computers of different kinds. ASUS CX200
Internet Camera...

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