Honeywell

EQUIP[™] Series Indoor Fixed Mini Dome Network Camera

NTSC / PAL

HD3MDIP HD3MDIPX

User Guide

Document 800-04132V1 - Rev A - 01/10

Revisions

Issue	Date	Revisions
A	09/09	New document for HD3MDIP/X release. Generally describes the functionality in the firmware of the HD3MDIP/X camera.
V1 A	01/10	New version number and release date.

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About This Document

This document introduces the Honeywell HD3MDIP/X True Day/Night Indoor Network Camera. It covers how to install and operate the HD3MDIP/X in a network environment.

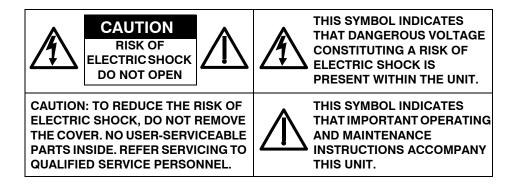
This document is intended for system installers, administrators, and operators.

Overview of Contents

This document contains the following chapters and appendixes:

- Chapter 1, Introduction, introduces the Honeywell HD3MDIP/X Network Camera and gives a functional overview of its components.
- *Chapter 2, Installation and Setup*, provides procedures for installing cameras, adjusting the lens, and setting up a network camera environment.
- Chapter 3, Installing the Honeywell IP Utility and HD3MDIP/X Web-Client Software, describes how to install the Honeywell IP Utility and set up administrator privileges.
- Chapter 4, IP Camera Web-Client, describes how to use the Web-Client application to view video and configure the available settings for the network camera.
- *Appendix A, Mounting Template*, provides a mounting template for the HD3MDIP/X camera.
- *Appendix B, Troubleshooting*, lists common problems encountered when setting up the network camera.
- Appendix C, Specifications, provides specifications for the HD3MDIP/X camera.
- Appendix D, Glossary, explains terms and initializations used in this guide.
- The Index provides quick access to commonly searched terms.

Cautions and Warnings



Installation and servicing should be performed only by qualified and experienced technicians to conform to all local codes and to maintain your warranty.

WARNING! 24 VAC models require the use of CSA Certified/UL Listed Class 2 power adapters to ensure compliance with electrical safety standards. Power over Ethernet (PoE) should meet the IEEE 802.3 af PoE standard.



WEEE (Waste Electrical and Electronic Equipment). Correct disposal of this product (applicable in the European Union and other European countries with separate collection systems). This product should be disposed of, at the end of its useful life, as per applicable local laws, regulations, and procedures.

Caution

When powering the camera from 24 VAC, a UPS source should be considered to ensure satisfactory performance.

FCC Compliance Statement

Information to the User: This equipment has been tested and found to comply with the limits for a Class B digital device. Pursuant to Part 15B of the FCC Rules, these limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference. For example, try reorienting or relocating the receiving antenna, increasing the separation between the equipment and receiver, or connecting the equipment to an outlet on a different circuit.

Caution Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This Class B digital apparatus complies with Canadian ICES-003.

Manufacturer's Declaration of Conformance

North America

The equipment supplied with this guide conforms to UL 60950-1 and CSA C22.2 No. 60950-1.

Europe

The manufacturer declares that the equipment supplied with this guide is compliant with the essential protection requirements of the EMC directive 2004/108/EC and the Low Voltage Directive LVD 20006/95/EC, conforming to the requirements of standards EN 55022 for emissions, EN 50024 for immunity, and EN 60950 for Electrical Equipment safety.

Warranty and Service

Subject to the terms and conditions listed on the Product warranty, during the warranty period Honeywell will repair or replace, at its sole option, free of charge, any defective products returned prepaid.

In the event you have a problem with any Honeywell product, please call Customer Service at 1.800.796.CCTV for assistance or to request a **Return Merchandise Authorization (RMA)** number.

Be sure to have the model number, serial number, and the nature of the problem available for the technical service representative.

Prior authorization must be obtained for all returns, exchanges, or credits. **Items shipped** to Honeywell without a clearly identified Return Merchandise Authorization (RMA) number may be refused.

1

Introduction

Honeywell HD3MDIP/X color network cameras provide high picture quality remote video surveillance over a network connection. See *Table 1-1* for descriptions of the camera models.

 Table 1-1
 Fixed Mini Dome Network Camera Model Numbers

Model number	Description
HD3MDIP	True Day/Night 720p, 3.3 – 12 mm VFAI Lens NTSC
HD3MDIPX	True Day/Night 720p, 3.3 – 12 mm VFAI Lens PAL

Features

The Honeywell HD3MDIP/X color network camera features:

- HD, SVGA, VGA, QVGA resolutions
- 1/4" color CMOS progressive scan sensor
- Moveable Infrared (IR) cut filter ensures excellent low light performance
- Camera Sabotage Detection
- Video Motion Detection
- MPEG-4 and MJPEG compression
- Dual digital video streams simultaneously, independently configurable
- Remote firmware updates
- Supports both Dynamic and Static IP address assignment
- Multiple levels of password protected remote access prevents unauthorized users from altering system settings
- Includes advanced IP locator software to make system setup easy
- Web server for remote setup of camera video and network parameters
- 24 VAC or PoE IEEE 802.3af choice of power inputs
- Supports input and output alarm contacts
- Supports bi-directional audio
- Local video out aim and focus

Introduction

2

Installation and Setup

This chapter describes how to:

- Mount the camera
- Adjust the camera for the clearest image
- Set up the camera in a network system

Before You Begin

Please carefully read this guide before you install the HD3MDIP/X network camera.

Keep this guide for future reference.

Before installing the camera, Honeywell recommends that you check www.honeywellvideo.com/products/cameras/ to find your camera and download the latest manuals and software updates.

Unpack Everything

Check that the items received match those listed on the order form and packing slip. The HD3MDIP/X packing box should include, in addition to a Quick Install Guide:

- One fully-assembled HD3MDIP/X camera, including factory-installed BNC connector for local video out aim and focus
- One adapter plate
- One HD3MDIP/X hardware kit that includes mounting screws and screw caps
- One BNC cable for local video out aim and focus
- One mounting template
- One product warranty
- One CD containing the software and this User Guide

If any parts are missing or damaged, contact the dealer from which you purchased your camera or call Honeywell Customer Service (see *Warranty and Service*).

Equipment Required

The following tools might help you to complete the installation:

- Drill
- Screwdrivers
- Wire cutters

Overview of Installation Procedure

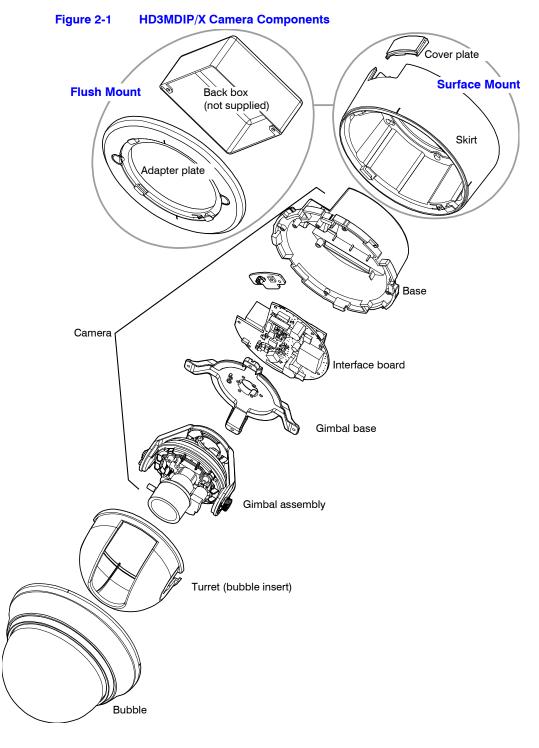
Note Please familiarize yourself with the installation procedure and complete each step in the exact sequence given.

The initial installation of an HD3MDIP/X camera consists of the following steps:

	Step	See
1	Preparation	page 18
2	Connect the wiring.	page 21
	Mount the camera.	page 24
3	Adjust the camera angle, position, and focus for optimum image.	page 25
4	Secure the enclosure cover.	page 27
5	Program the camera.	page 55

Camera Components and Functions

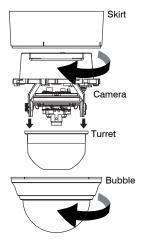
The HD3MDIP/X Network Camera consists of a fully-integrated enclosure with camera and lens. The wiring can be completely concealed to reduce the risk of tampering.



Camera Installation

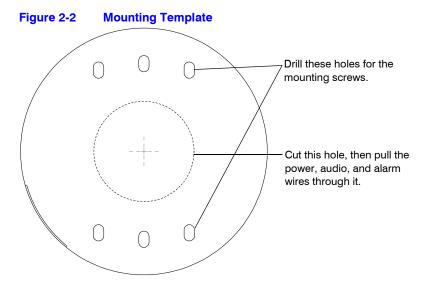
Preparing the Camera

- 1. Rotate the bubble counterclockwise until it disconnects.
- 2. Pull the turret to remove it.
- 3. Rotate the camera counterclockwise until it disconnects from the skirt.
- 4. Set aside the bubble, turret, and camera.



Preparing the Mounting Surface

- 1. Mark the mounting surface for screw holes and wire access hole.
 - Use the mounting template if you are surface mounting your camera. See *Mounting Template* on page 65
 - Use the flush mount adapter plate as a template if you are flush mounting your camera.



2. Pre-drill the holes as indicated on the template, using the recommended hole size for the screws being used.

Note Other fasteners (preferably stainless steel) can be used, provided they are not larger than the screw holes on the mounting template.

Connecting the Wires

Connecting Audio and Alarms

- 1. Pull the wires through the ceiling or wall hole until you have at least 4 inches of wire.
- 2. Remove the green connector strip (see *Figure 2-6* on *page 22*) from the camera base and make all the necessary alarm and audio connections.
- 3. Connect a twisted pair (UTP) cable from each peripheral alarm contact to each alarm input on the terminal block.

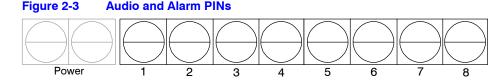


Table 2-1 Audio and Alarm Connector PIN Definitions

PIN	Definition
1	Audio In +
2	Audio In -
3	Audio Out +
4	Audio Out -
5	Alarm In +
6	Alarm In -
7	Alarm Out +
8	Alarm Out -

Connecting Audio

The network camera supports bi-directional audio. There are two supported voice band channels that function in full duplex mode. The camera can transmit audio from the camera to the client (PC) using any audio source that provides an industry standard line level input (see the terminal strip as depicted in *Figure 2-6*). The camera can also receive audio from

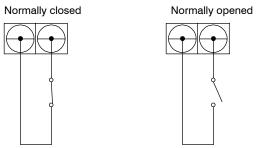
the client (PC) and provide an industry standard line level output suitable to connect to audio devices. Audio input and output have 600 Ohm impedance. See *Audio Settings* on page 63 to configure audio options.

Connecting Alarms

WARNING! Do not exceed the maximum rating of 12 VDC, 0.5 A on alarm output connections.

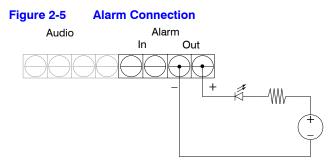
The HD3MDIP/X network camera has one alarm input and one alarm output. Connect mechanical or electrical switches to the alarm input connection to allow event-triggered recording. When alarm inputs are configured, the HD3MDIP/X triggers an alarm only when the normal alarm state (open or closed) changes.





See Alarm Settings on page 62 to configure the alarm inputs.

Connect external devices such as sirens or flashing lights to the alarm output connector to signal an activated alarm to camera users.

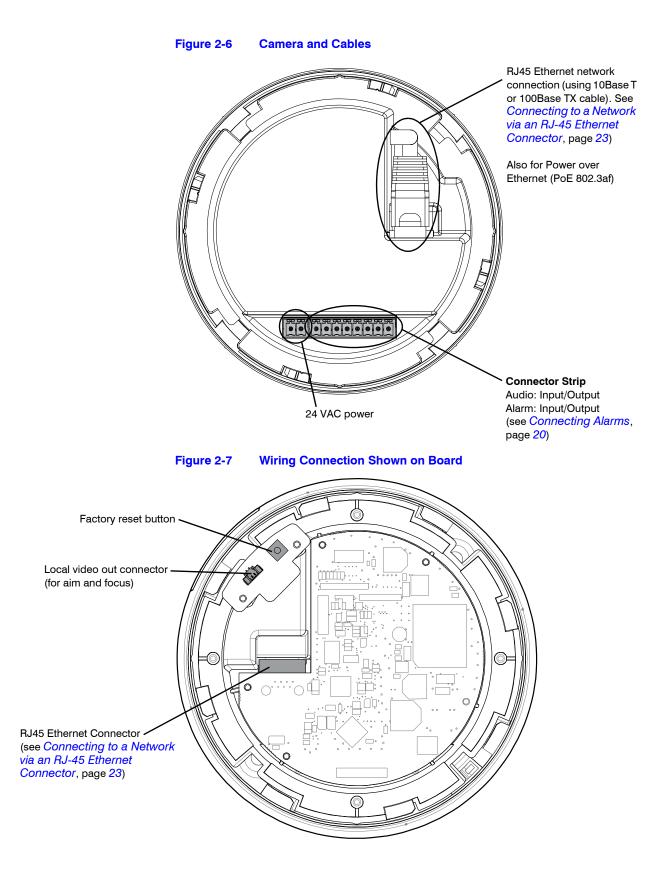


The alarm output can be configured to provide normally open or normally closed contacts (see *Alarm Settings* on page 62 to configure the alarm output). Contacts will be rated for 12 VDC @ 0.5 A.

 Pull the cables through the back or side entries of the camera skirt, then connect the green connector strip to the camera assembly. You might have to remove the cover plate for flush mount.

Connecting Power

WARNING	The use of a CSA Certified/UL Listed Class 2 power supply is required to ensure compliance with electrical safety standards.
Note	Check the power source from the external power supply before applying power to the camera.
• 2	ect the appropriate power supply for your installation: 4 VAC power supply (proceed to <i>step 2</i>) r vower over Ethernet (IEEE 802.3af) 48 VDC power supply
Note	If you are using PoE (802.3af), power will automatically be supplied to the camera through the network cable.
3. Plug t illumir	ect to the power supply (see <i>Figure 2-6</i> on <i>page 22</i>). he power supply into an appropriate power source. The LED on the RJ45 jack nates when the camera receives power. If it does not illuminate, check the nal block connections and the power source.
Note	To ensure satisfactory performance, it is recommended that you use a UPS source when connecting the camera to a 24 VAC power source.



Caution Installation must be performed by a qualified electrician. The power wire size for the distance and the number of cameras must be determined to maintain 24 VAC at each camera.

Connecting to a Video Monitor

The local video out (see *Figure 2-7*) is available as a test output and should be used as needed during installation to position, aim, and focus the camera. Use the provided BNC connector to connect the video from the camera to the video input connector on your video monitor.

Connecting to a Network via an RJ-45 Ethernet Connector

The main video connection for your network camera will be made through your Ethernet network connection. Connect the **Ethernet** connector on your camera to your network using an Ethernet (10Base-T, 100Base-TX) cable.

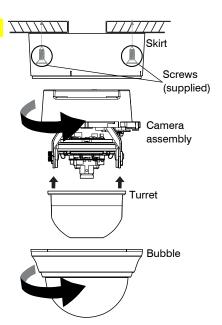
Note You can connect your camera to a network or use any type of CAT5 cable to connect it directly to a PC or laptop.

Mounting the Camera

Surface Mount

- 1. Secure the skirt to the ceiling or wall using the appropriate screws (supplied).
- 2. Connect the wires (see *Connecting the Wires* on page *19*).
- Rotate and align the camera assembly yellow label with the skirt yellow label.—
- 4. Secure the camera assembly to the skirt by pushing it into the skirt, then twisting it clockwise until it clicks securely in place.
- 5. Secure the camera assembly to the skirt by twisting it clockwise until it clicks securely in place.
- 6. Adjust the camera's field of view (see *Adjusting the Camera FOV (Field of View)* on page 25).
- 7. Install the turret by clicking it into place.
- 8. Install the bubble by placing it on the camera with the tabs to the left of the slots, then turning it clockwise until the tabs click securely into place.

•

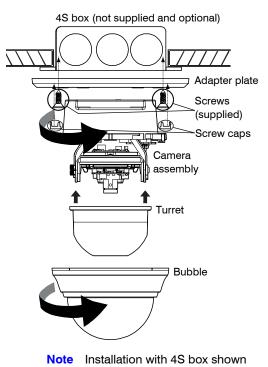


Flush Mount (with or without 4S box)

 Use the screws (supplied) to connect the adapter plate directly to the ceiling or wall. Or

> Use your own screws to connect the adapter plate to the 4S box (not supplied) which is attached to the ceiling or wall.

- 2. Connect the wires (see Connecting the Wires on page 19).
- 3. Secure the camera assembly to the adapter plate by twisting clockwise until it clicks securely in place.
- 4. Adjust the camera's field of view (see Adjusting the Camera FOV (Field of View) on page 25).
- 5. Install the turret by clicking it into place.



 Install the bubble by placing it on the camera with the tabs to the left of the slots, then turning it clockwise until the tabs click securely into place.

Restore Factory Defaults

Your network camera has a Factory Reset switch located inside the camera (see *Figure 2-6* on *page 22*). This switch restores your camera settings and passwords to their default settings. Press and hold the Reset switch for three seconds. This will reset the factory-configured parameters such as the compression settings, the camera tamper detection settings, and the Video Motion Detection settings. It will not impact network IP address configurations.

Adjusting the Camera FOV (Field of View)

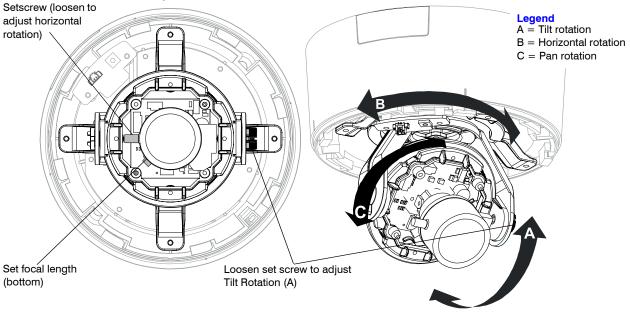
To adjust the HD3MDIP/X camera:

- 1. Apply power to the camera and watch the video on a connected local video monitor (see *Figure 2-7* on *page 22* to connect a local video monitor).
- 2. Loosen the setscrew that locks the gimbal assembly in place (see *Figure 2-8*) to adjust the horizontal rotation.

- 3. Adjust the gimbal assembly to the desired view.
- Re-tighten the locking screw to lock the gimbal assembly in place. 4.

Note Orient the camera as shown in Figure 2-8 to maintain the correct picture orientation.





Adjusting the Lens Focus

Lenses are pre-focused at the factory. They might require a final adjustment after installation because the optical effect of the bubble might cause a slight defocusing of the lens.

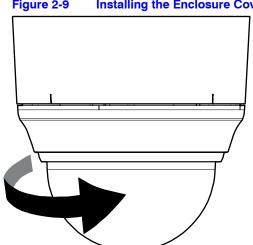
TECH TIP! To check the focus, hold the bubble over the lens while making any adjustments.

> To adjust the camera direction, view angle, and focus, connect the local video out to the video monitor using the supplied BNC video cable.

Securing the Enclosure Cover

Install the bubble when you have set up your camera and completed the network connections (see Chapter 3, Installing the Honeywell IP Utility and HD3MDIP/X Web-Client Software).

Place the enclosure cover on the camera with the tabs to the left of the slots, then turn it clockwise until the tabs click securely into place.





Installation and Setup

Installing the Honeywell IP Utility and HD3MDIP/X Web-Client Software

This chapter describes how to:

- Install and log onto the IP Utility
- Connect to a device and configure network settings using the IP Utility
- Launch the Web-Client software
- Uninstall the IP Utility, Bonjour, or ActiveX software

About the Honeywell IP Utility and Web-Client

About the Honeywell IP Utility

The Honeywell IP Utility is a software application that is installed from a CD or downloaded from the Honeywell Systems Group website (www.honeywellvideo.com). It is installed on a local workstation and primarily used by Administrators to configure the EQUIP Series of products residing on an IP network.

The IP Utility enables users to:

- Discover device(s) on a network
- Configure the IP network settings, name device(s), upgrade firmware, change passwords.
- Open individual Web-Client applications for each discovered device.

Note Before installing and using the Honeywell IP Utility, confirm that your HD3MDIP/X Network Camera is connected to the network through an Ethernet cable (see *Connecting to a Network via an RJ-45 Ethernet Connector* on page 23).

About the Web-Client

The Web-Client is the web-based application that enables users to:

- View live-streaming video.
- View the device network settings and firmware details.
- Configure camera settings
- Configure video analytics settings.
- Configure compression settings.
- Configure alarm and audio settings.

User Profiles: Honeywell IP Utility and Web-Client

Both the Honeywell IP Utility and the Web-Client have two user types: *Administrator* and *Guest* as described in *Table 3-1*.

Note Only one Administrator and only one Guest can be logged on at a time.

After the IP Utility software is installed, you can change the Administrator or Guest passwords.

Interface	Administrator	Guest
Honeywell IP Utility	 View the list of available network devices and connect to the devices. Configure the IP network settings. Upgrade firmware. Change the password to access the IP Utility application. Change the access passwords to the Web-Client application. 	 View the list of devices available on the network. View system settings including device name, IP address, and MAC address.
Web-Client	 View video and network settings. Configure compression settings. Configure camera setup. Configure video analytics. Configure audio and alarms. 	Guest users are limited to the Live View tab where they can view video

Table 3-1 User Profiles for Honeywell IP Utility and the Web-Client

Step 1: Confirm Your System Requirements

Note	Windows administrator privileges are required to install the Honeywell IP Utility and associated software.
Note	Contact the network administrator if there are any questions regarding the

Install the Honeywell IP Utility on a work station with the minimum requirements (outlined in *Table 3-2*). After the IP Utility is installed, the same computer workstation can be used to access the Web-Client.

Component	Requirement
Operating System	Windows $XP^{ entropyee}$ or WINServer 2003
Processor	$Intel^{ extsf{B}}$ Pentium $^{ extsf{B}}$ IV, 3.1 GHz or faster
RAM	1 GB RAM or higher

Table 3-2 PC Minimum System Requirements

Table 3-3 Items Installed On Your System

Item	Function
Honeywell IP Utility software	To enable use of the Web-Client to configure cameras and view live video.
Bonjour software	To enable the devices to discover cameras on the network.
HD3MDIP/X Honeywell IP Adapter software	Required if a workstation does not have IP Utility installed but an operator is using the Web-Client.
HD3MDIP/X Honeywell ActiveX software	To enable live streaming of video on the Web-Client.
EQUIP TM Series User Guides	To provide detailed information about how to install and configure your EQUIP Series products.

Step 2: Install the Honeywell IP Utility Software

- 1. Close all other applications that might be open on your computer.
- 2. Open the Honeywell IP Utility InstallShield Wizard.

Method 1: CD

Insert the CD into the CD-ROM drive.

Note If InstallShield does not open automatically, navigate to [CD drive]\Honeywell IP Utility\Honeywell IP Utility Setup.exe. Double-click on the file to launch the program.

Method 2: Website

- a. Navigate to www.honeywellvideo.com.
- b. Click Customer Resources ➤ Download Center ➤ I Agree to reach the software downloads page.
- c. Locate your device in the list (for example, click **Cameras** for HD3MDIP/X IP devices).
- d. Under Honeywell IP Utility, download, extract and open the **Honeywell IP Utility Set-up.exe** icon from where you extracted the file.
- 3. When the **Honeywell IP Utility InstallShield Wizard** opens, follow the instructions. After the installation is complete, a **Honeywell IP Utility** icon a displays on the desktop.

Downloading the EQUIP Series Installation Guides

- To access the installation documents that were installed with the IP Utility, click Start
 ➤ All Programs ➤ Honeywell Video Systems ➤ EQUIP Series ➤ Manuals ➤
- 2. Select the applicable PDF to download to your computer.

Figure 3-1 Accessing Your Installation Documents

	🖬 Honeywell Video Systems	•	🖬 EQUIP Series 🔸	🛅 IP Utiky 🔸	
All Progr	iens 🗩	Microsoft Office Communicator 2005			m Manuals +
		Adobe ImageReady 7.0		and the second second	
_		CANDesk Management	•	-	
🛃 start	1 1 1	m PENTAX Digital Camera Utility			

Step 3: Log Onto the IP Utility and Discover Network Devices

 Double-click the Honeywell IP Utility icon on your desktop. -OR-

Click Start ➤ Programs ➤ Honeywell Video Systems ➤ EQUIP Series ➤ IP Utility ➤ Honeywell IP Utility.

The Honeywell IP Utility Log On window opens.

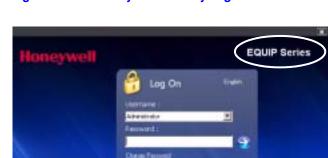


Figure 3-2 Honeywell IP Utility Log On Window

- 2. Select Administrator or Guest from the User Name drop-down list.
- 3. Enter the case-sensitive password in the **Password** field.
 - The default Administrator password is **1234**. Only one Administrator can be logged on at a time.
 - The default Guest password is guest.

Note During the installation set up, you must log on as an Administrator to access all the features.

- Click the arrow button . The Honeywell IP Utility program searches for devices on the network and opens to the Honeywell IP Utility user interface.
- 5. Automatically discover or manually refresh the list of devices on the network. Use the manual refresh if a new device was added after you logged onto the system.
 - You do not need to do anything to discover devices. When you log on to the IP
 Utility, the devices on the network including the devices on other subnets —
 are automatically discovered and listed in the Discovery pane. After the initial
 discovery, the network automatically continues to discover devices that are newly
 added to the network.
 - To manually refresh the device list, click the **Refresh** () button, located near the top of the Discovery pane.
- Enable or disable the HTTP Server checkbox for additional security. Only an Administrator can disable (uncheck the box), resulting in the user being unable to access the Web-Client, although video recording is unaffected.

	Figure 3-3 Honeywell	IP Utility User Interface
Refresh button	Connect button Limited/No connectivity button	Use the Product Filter drop-down menu to select a specific device, such as all HD3MDIP/X cameras
Honeywell ACUIX-OUTDOOR	Honeywel	TIP Utility EQUIP Series (About) 🗐 🖬 💟
Discovery	System Lizen	
	IP Network Setting Dotain an IP Address Homatically Device Name ACUDYONTO MAC Address 000A1310101 IP Address 164.178.45.32 Subnet Mask 255.255.255.1 Default Gateway 164.178.45.1	passwords
The Discovery pane lists the IP devices found on the network and groups by device type	Product Name ACUDCIP Cutternt Version 1.2.8 Upgrade F	Upgrade Firmware downloaded from the Honeywell website
Enable or disable HTTP Server	(HD3M	ch Browser to open the Apply Undo Changes MDIP/X IP Web-Client ach device
9 Device(s) found	Connected to Device [ACUIX-OUTDOOR]	Administrator
		splays how many devices are on the network,

Step 4: Connect to a Device and Configure Network Settings

When you log on to the IP Utility, the devices on the network—including the devices on other subnets—are automatically discovered and are listed in the **Discovery** pane. After the initial discovery, auto-refresh continues to discover devices that are newly added to the network.

You can also manually refresh the device discovery by clicking the **Discovery** icon (2), located near the top of the Discovery pane.

Connecting to or Disconnecting From Devices

Before configuring the IP network settings, you must connect to the IP device.

Connecting to a Device

You can connect to individual Web-Client applications for each discovered device.

- In the **Discovery** pane, double-click the device to which you want to connect.
 -OR-
- Select the device and click the Connect should button.
 The network settings for the connected device are displayed in the System pane.

Disconnecting from a Device

In the Discovery pane, select the device and click Disconnect 🎇

Note If you disconnect the device without saving configuration details, a warning dialog box displays. Click **Yes** to save and disconnect, or click **Cancel** to discard the changes and disconnect the device.

Configuring the IP Network Settings Automatically or Manually

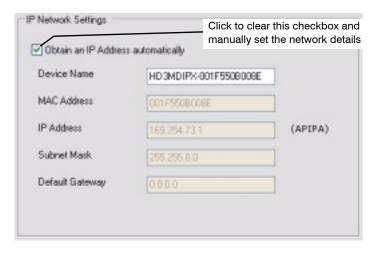
Note When you see the Limited/No connectivity is button, you cannot fully connect to the device because the discovered device is on a different subnet from your PC. Check your network settings for both the device and your PC to resolve this issue. Consult your network administrator for additional support.

The IP network setting details, such as device name, IP address, and subnet mask can be configured for each connected device either automatically or manually.

Note It is important to click **Apply** to save any configuration change.

	Table 3-4 IP Network Device Setting Options		
Option	Description		
Device Name	By default, the device name is the device type plus the MAC Address. Honeywell recommends, for security, that you change the device name.		
IP Address	The IP address of the device on the network.The camera obtains an IP address by static or dynamic (automatic) means. There are two options: DHCP (dynamic), assigned by the user, or APIPA (static), assigned by the network.		
Subnet Mask	The subnet mask, or netmask, value of the device on the network. IP networks can be divided into several smaller networks by subnetting. When a network is subnetted, you must specify a subnet mask, which tells network devices which smaller network they belong to.		
	Note If the subnet mask is not properly configured, the camera might not be able to communicate with other devices on the network.		
Default Gateway	The default gateway address that connects the device to the network. Enter the IP address of the host to use as a gateway between networks. The gateway allows communication between devices that are on different networks. Without a correct gateway setting, the camera cannot receive or transmit data from or to devices that are not in the same network address range.		
MAC Address	The MAC address is a factory-assigned address that is unique for each device.		

Figure 3-4 Set the IP Network Settings Automatically or Manually



Updating IP Network Settings Automatically

- 1. In the Discovery pane, select the device and click Connect 🐗
- 2. From the System tab click the Obtain an IP Address automatically check box.
- 3. Enter a **Device Name**, for example, *FrontLobbyDome01*.
- 4. Click Apply.

The network automatically assigns the IP Address based on the DHCP network server details. If no DHCP server is present on the network, the hardware defaults to an APIPA address (169.254.x.x).

Updating IP Network Settings Manually



Caution When manually updating the network settings, it is important to enter the correct IP network settings before applying them. Incorrect values might cause a failure when connecting to the device. See *Table 3-4* for definitions of each setting.

- 1. In the **Discovery** pane, select the device, and click **Connect**
- 2. To assign a static IP address to the device, from the **System** tab click to clear the **Obtain an IP Address automatically** check box.
- 3. Enter a Device Name, for example, FrontLobby01.
 - **Note** The MAC address is a factory assigned address that is unique for each device.
- 4. Enter an **IP Address** of the device on the network.

Note The address must be in the same address range. For example, if the PC is 192.188.1.xx, then the device should be set to a similar address, for example 192.168.1.xy.

- 5. Enter the device Subnet Mask value. A value is required.
- 6. Enter a default **Gateway Address** that connects the device to the static network. A value is required.
- Click Apply. The network settings are updated and a message displays in the status bar to confirm the update.

Interfacing with the EQUIP Device Via a Network Video Recorder

Your recording vendor has the option of using either the connection methods supported by EQUIP V1 firmware or EQUIP V2.1 firmware. If the NVR vendor has implemented EQUIP V1 connection methods, the HD3MDIP/X camera will work on those NVRs. Similarly, if the NVR vendor has implemented EQUIP V2.1 connection methods, the HD3MDIP/X camera will work on those NVRs. There is no user configuration necessary.

For further information, refer to the documentation supplied with your NVR or contact your NVR network administrator.

Step 5: Launch the Web-Client to View Live Video

Not	e Only one Administrator and one Guest can log on to the Web-Client application at one time. After you are logged in as an Administrator, there is no time out until you click Logout . To allow other Administrators to log on, you must log out when the session is done.
Not	e After the IP Utility software is installed for the first time, you can change the Administrator or Guest passwords and upgrade firmware.
Not	e It is important to click Apply in order to save any configuration change.
	og onto the Web-Client. There are two ways to launch the Web-Client and log on— a the Honeywell IP Utility Program or directly from Internet Explorer.
н	oneywell IP Utility
a	Log onto the Honeywell IP Utility program.
b	From the Discovery pane, click to select the device to launch its browser.
C.	To enable or disable the HTTP server, select or clear the Enable HTTP Server check box. By default, the HTTP server is enabled.
d	. From the System tab, click Launch Browser . The Web-Client application for the selected device opens in Internet Explorer.
Ir	iternet Explorer
Б.	r_{r}

From Internet Explorer (v6.0+), **enter the URL** (IP address of the device) in the Address bar to open the logon window.

- 2. Select a User Name and enter a Password.
 - a. From the User Name drop-down list, select Administrator or Guest.
 - b. In the **Password** field, enter the case-sensitive password.
 - The default Administrator password is 1234.
 - The default Guest password is guest.

c. Click 🍚

3. A signed version of ActiveX® control is installed when you use the Web-Client to discover connected devices for the first time. If you have a previous version of IP ActiveX is installed, you are prompted to upgrade to Honeywell secure ActiveX control.

Figure 3-5 ActiveX Prompt

Honeywell		EQUIP [™] Series Unit: Administrator 109307
E		
	Interpret IF Attint	
	This setue will perform an uppy odd of Hoseywell DI ActiveIT. Do you want to continue! You Bo	

Click Yes.

- 4. Follow the InstallShield Wizard prompts to install the secure Honeywell IP ActiveX on your PC.
- 5. The InstallShield Wizard Completed message indicates a successful ActiveX upgrade. Click **Finish**.

The Web-Client interface opens and live streaming video displays on the monitor.

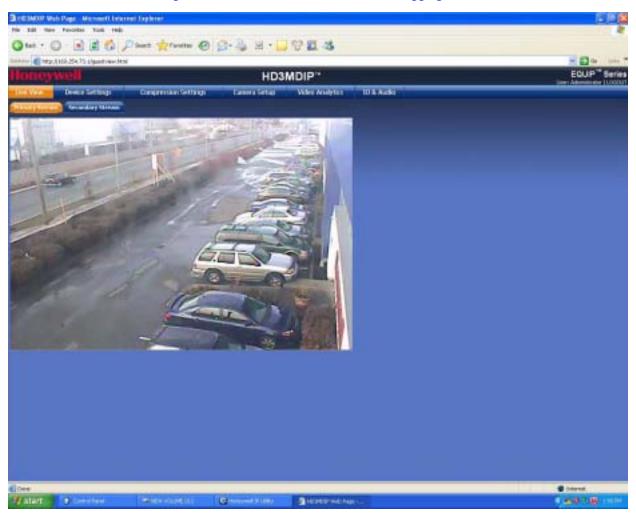


Figure 3-6 Web-Client Interface After Logging On

Uninstalling IP Utility, Bonjour or the ActiveX Plug-in Software

You can uninstall the IP Utility, Bonjour, or IP ActiveX software using:

- The Start menu to uninstall IP Utility and Bonjour OR
- The Control Panel to uninstall IP Utility, Bonjour and IP ActiveX.

Uninstalling IP Utility Using the Start Menu

- 1. Click Start ➤ All Programs ➤ Honeywell Video Systems ➤ EQUIP Series ➤ IP Utility ➤ Uninstall Honeywell IP Utility.
- 2. Click Yes.

The Honeywell IP Utility is uninstalled.

- 3. During the uninstallation process, you are prompted to also uninstall the Bonjour program. Click **Yes** to remove Bonjour or **No** to only uninstall the Honeywell IP Utility.
- 4. Click Finish.

Uninstalling IP Utility or IP ActiveX Using the Control Panel

- 1. Click Start > Settings > Control Panel.
- 2. Open Add or Remove Programs and select Honeywell IP Utility or Honeywell IP ActiveX from the Currently installed programs list.
- 3. Click Change/Remove.

The IP Utility Installation Wizard screen opens.

4. Click **Next ➤ Remove**.

The Honeywell IP Utility is uninstalled.

- 5. During the uninstallation process, you are prompted to also uninstall the Bonjour program. Click **Yes** to remove Bonjour or **No** to only uninstall the Honeywell IP Utility.
- 6. Click Finish.

Installing the Honeywell IP Utility and HD3MDIP/X Web-Client Software

4

IP Camera Web-Client

Before you launch the Honeywell IP Web-Client, ensure that you complete the following sections before configuring your HD3MDIP/X camera:

- Chapter 2, Installation and Setup
- Chapter 3, Installing the Honeywell IP Utility and HD3MDIP/X Web-Client Software

This chapter covers:

- Navigating the Web-Client interface
- Understanding the Web-Client features and functions
- Configuring compression settings
- Configuring camera settings
- Setting tamper detection
- Configuring audio and alarm settings

Overview

The network camera Web-Client is a web-based application that enables you to view video, listen to audio, and configure camera, sabotage detection, motion detection, alarm, and audio settings for the network camera.

Certain features of the IP Camera Web-Client are user-based and are available only to the Administrator. The guest user is limited to the Live View tab. Only one Administrator and one Guest can be logged on at a time.

User Profiles

Table 4-1 describes the roles and privileges for the HD3MDIP/X Web-Client application users:

Table 4-1	User Roles and Privileges				
User Role	Privileges				
Administrator	 View video and network settings Configure the alarm and audio settings Set up the video compression settings Configure auto exposure and white balance for the camera Set up camera sabotage and video motion detection settings 				
Note Only 1	Administrator can be logged on at a time				
Guest Operate	or • View video				
Only 1 Guest can be logged on at a time					

Logging On and Off the HD3MDIP/X IP Web-Client

Note	One Administrator and one Guest can log on to the Web-Client application at a time.
By click	vo ways to open each HD3MDIP/X IP Web-Client. king Launch Browser from the IP Utility interface. r from Internet Explorer by entering the URL (the IP address) in the address
Note	The web page where you log on to the Honeywell IP Utility and any IP device web page (for example, the HD3MDIP/X IP Web-Client) look very similar. You can tell the difference between the two sites by the IP address in the web browser as well as the program name in the lower left corner of the window.

Launching the Web-Client from IP Utility

 From the desktop, double-click the Honeywell IP Utility icon S. -OR-

Click Start ➤ All Programs ➤ Honeywell Video Systems ➤ EQUIP Series ➤ IP Utility ➤ Honeywell IP Utility. The Honeywell IP Utility Log On window opens.

- 2. From the **User Name** drop-down list, select **Administrator** or **Guest**. See *Table 4-1* on *page 44* for User roles and privileges.
- 3. In the **Password** field, enter the case-sensitive password.
 - The default Administrator password is **1234.** Only one Administrator can be logged in at a time.
 - The default Guest password is guest.

5. In the **Discovery** pane, double-click the device you want to connect to. -OR-

Select the device and click **Connect** . The network settings for the connected device are displayed in the **System** pane.

6. Click Launch Browser (see *Figure 4-1*) to go to the HD3MDIP/X Web-Client logon page.

Honeywell ACUIX-OUTDOOR		Honeywell IP Utility	EQUIP Series	About 📃 🔳 🚺
Discovery	System Users			
ALL		Connect to the device the Launch Browser	en click	
ACUIX-06FA-letenty ACUIX-00FD00R	Device Name	automatically		
B HIVE8_000A13102030	MAC Address	000A1310101F		
 HNVE8-000A13102030 HNVE8-000A13102037 	IP Address	164.178.45.33 (DHCP)		
E-HD4DIP -EQA-Cypress-Test	Subnet Mask	255.255.255.0		
HD4-00UTDOOR HD4-000A13100A2F HC9554IP	Default Gateway	164.178.45.1		
	Firmware Upgrade			
	Product Name	ACUIX IP		
	Current Version	1.2.8		
		Uppade Firmware		
	Enable HTTP Server			
	Launch Browser		Apply	Undo Changes
9 Device(s) found	Connected to Device [AC	UDX-OUTDOOR]		Administrator

Figure 4-1 Launching the HD3MDIP/X Web-Client from IP Utility

Logging Onto the Web-Client from Internet Explorer

 From Internet Explorer (v6.0+), enter the URL (IP address of the device) in the Address bar to open the logon window. The Web-Client log on page opens.



- 2. Select a User Name and enter a Password.
 - a. From the User Name drop-down list, select Administrator or Guest.
 - b. In the **Password** field, enter the case-sensitive password.
 - The default Administrator password is 1234.
 - The default Guest password is guest.
 - c. Click S
- 3. The Web-Client interface opens and live streaming video displays on the monitor.

Logging Out of the Web-Client

Note After you are logged onto the HD3MDIP/X Web-Client there is no time out until you click **Logout**. To allow other Administrators to log on, you must log out when the session is done.

To log out from the Web-Client application, click **Logout** at the top of the Web-Client window.

Note Do not use the CLOSE button ([]])in Internet Explorer to logout or the session might not end correctly, and settings that have you changed might not be saved.

Navigating the User Interface

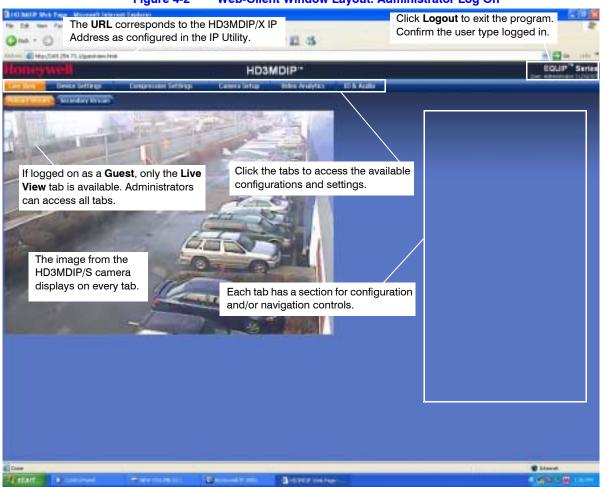


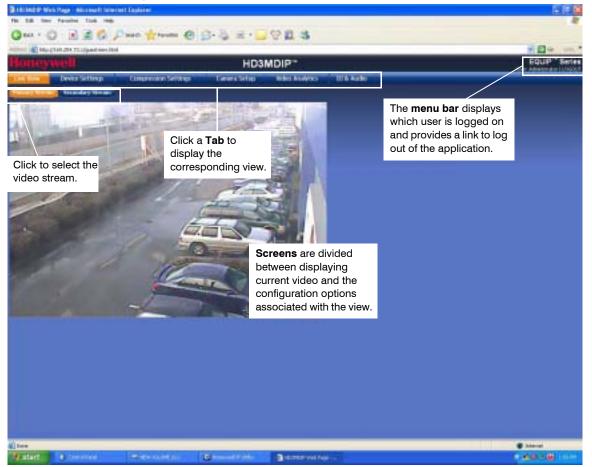
Figure 4-2 Web-Client Window Layout: Administrator Log On

The HD3MDIP/X Web-Client application user interface consists of multiple user-friendly views organized by function. Access to the views is user-controlled.

Tab	Enables you to
Live View	View video.
Device Information	View the network settings and firmware details of the camera.
Compression	Configure the compression.
Settings	Set the maximum bit rate and/or target bit rate that the camera will provide across the network based on priority mode settings. This value is the threshold that you do not want the bit rate to exceed.
	View received bit rate and frame rate statistics of the current image in real time.
Camera Setup	Configure auto exposure and white balance for the camera.
Video Analytics	Configure the camera sabotage detection settings and view video display.
Alarm and Audio	Configure the alarm and audio settings.

 Table 4-2
 Tabs/Views in the Web-Client Application

Figure 4-3 Web-Client: Administrator User





Live View

Live View shows live video from the selected camera (see Figure 4-4).

Device Settings

The Device Settings tab allows you to view the network settings and firmware details of the camera.

IP and Firmware Settings on the Device Information Tab

Depending on the hardware installation, there is a tab called either **Device Information** or **Device Settings**. In both cases, the IP and Firmware Settings panel mirrors the information available in the Honeywell IP Utility. It provides read–only network settings, firmware settings, and video formats without having to access the IP Utility.

The Device Settings are the same for the Primary and Secondary streams.

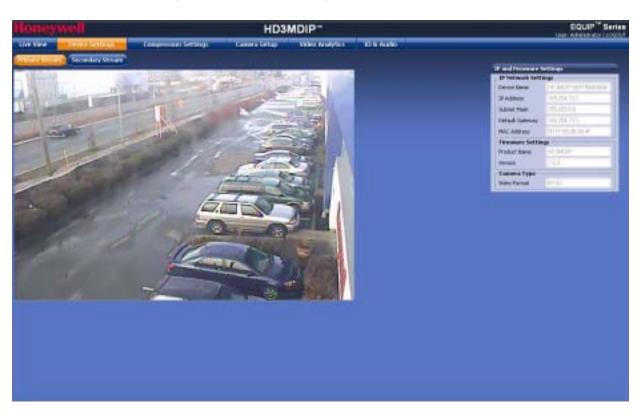


Figure 4-5 Device Settings

Device Name as entered in the IP Utility program	IP and Firmware S	iettings
	IP Network Sett	ings
IP Address on the network	Device Name	HD3MDIP-001F550B004F
(DHCP/Static/APIPA)	IP Address	169.254.73.1
Subnet Mask and Default Gateway	Subnet Mask	255.255.0.0
address that connects the camera to the network	Default Gateway	169.254.73.1
MAC Address is a factory assigned	MAC Address	00:1F:55:0B:00:4F
MAC Address is a factory assigned	Firmware Settin	95
	Product Name	HD3MDIP
Firmware Settings including	Version	7.0.3
product name and version	Camera Type	
Video Format - NTSC or PAL	Video Format	NTSC

Figure 4-6 IP and Firmware Settings: Device Information Tab

Compression Settings

The video signal sent from the camera to the Web-Client has a number of settings that can be edited which affect how the video displays in the Web-Client. The Compression Settings view enables you to configure these settings:

- Stream Type
- Resolution
- Frame Rate
- Priority (Quality or Bite Rate)
- Compression Ratio (if Quality is chosen as the priority)
- Target Bit Rate (if Bit Rate is chosen as the priority)
- Maximum Bit Rate that the camera will provide across the network
- GOP (number of frames)



Figure 4-7 Compressions Settings Tab: Primary Stream

Your HD3MDIP/X camera provides dual simultaneous video streams. Although the Primary stream can support a single MPEG4 SP in real time 30 fps at 720p resolution, it must be set to less than 720P for the second stream to operate. The Secondary stream operates at a lower frame rate than the Primary stream.

Video Codec Settings Tab

Primar	y Stream			Second	ary Stream	
Video Codec Settings			Set the Resolution for NTSC or	Video Codec Settings		
Stream Type	MPEG4		PAL video signals	Stream Type	MJPEG	
Resolution	VGA (640x480)	-	Set the Frame Rate (the number of frames displayed on screen per	Resolution	QVGA (320x240)	~
Frame Rate	30	*	second)	Frame Rate	30	~
Priority Compression Ratio	Bit Rate	1	Set the Priority for Quality or Bit Rate	Priority	Bit Rate	~
Farget Bit Rate (kbps)	2000		Set the Compression Ratio (when	Compression Ratio	N/A	2
Maximum Bit Rate (kbps)	N/A.		Quality is selected) Set the Target Bit Rate (the amount∕	Target Bit Rate (kbps)	2000	
GOP (No. of Frames)	20		of data processed per second)	Maximum Bit Rate (kbps)	N/A	Y
Default settings s	hown		Set the Maximum Bit Rate (kbps)		Default settings s	howr

Configuring the Compression Settings

 On the Compression Settings tab, in the Statistics area, select the Received check box to receive in real time the bit rate and frame rates for the current image. Deselecting the check box disables the refresh rate.

^{2.} Use Table 4-3 to set up the video compression.

	Table	4-3 Compression Sett	ings	
Setting	Options	Description		
Primary Stream Resolution	HD (1280x720) SVGA (800x600) VGA (640x480) QVGA (320x240)	HD is the highest resolution	n; QVGA is the lowest resolution.	
Secondary Stream Resolution	VGA (640x480) QVGA (320x240)	Up to 15 fps supported Up to 20 fps supported		
Frame Rate	1–30 (NTSC) 1–25 (PAL)		yed per second. For NTSC, select from 1 fps (lowest) ., select from 1 fps (lowest) to 25 fps (highest).	
Priority	Quality, Bit Rate		um bit rate and/or target rate value, based on priority s the threshold that you do not want the bit rate to	
	Select this Priori field setting	ty To enable this field	To achieve this	
	Quality	Maximum Bit Rate	If the target bit rate exceeds the maximum bit rate	
	(see <i>Figure 4-9</i>)	The Target Bit Rate field is grayed out.	value, the camera adjusts the picture quality first and then, if necessary, drops frames to meet the maximum bit rate value.	
	Bit Rate	Target Bit Rate and	Set the Maximum Bit Rate—limit the data transfer	
	(see Figure 4-9)	Maximum Bit Rate The Picture Quality field is grayed out.	speed—from 400 \sim 5000 kbps. As the target bit rate exceeds the maximum bit rate value, the camera reduces the bit rate by adjusting the frames dynamically to stay below the threshold that you set.	
Compression Ratio	Minimum, Low, Medium, High, Maximum	When Quality is selected as the Priority, select the Compression Ratio. Minimum is the highest visual quality; Maximum is the lowest visual quality.		
Target Bit Rate (kbps)	400 – 5000 kbps	Enter the Target Bit Rate in kbps (kilobits per second) which represents the amount of data processed per second.		
GOP (No. of Frames)	1-60	Select the GOP (Group of pictures) number from 1 to 100 . (Not available on the Secondary Stream.)		

Note The **Received** check box is disabled by default. When you log out, this check box reverts to the disabled state.

	/	he Resolu C or PAL v	tion for rideo signals.	\backslash	
Video Codec Settings			Video Codec Settings		
Stream Type	MPEG4		Stream Type	MPEG4	
Resolution	VGA (640x480)	~	Resolution	VGA (640x480)	~
Frame Rate	30	~	Frame Rate	30	~
Priority	Quality	~	Priority	Bit Rate	~
Compression Ratio	Medium	~	Compression Ratio	N/A	2
Target Bit Rate (kbps)	N/A		Target Bit Rate (kbps)	2000	
Maximum Bit Rate (kbps)	2000		Maximum Bit Rate (kbps)	N/A	Y
GOP (No. of Frames)	50		GOP (No. of Frames)	20	
	Reset to default	Apply		Reset to default	Apply
Statistics			Statistics		
Received Bit Rate(kbps) Frame Rate			Received Bit Rate	(kbps) ne Rate	
for ti real	istics are received he current image time when eived is enabled.				

Figure 4-9 Video Codec Settings, Quality Priority Selected

- 3. Click **Apply**. Adjustments in your compression settings are captured in the statistics. As you make adjustments, the Statistics field acts as a visual reminder of how your settings affect the bit rate, frame rate, and bandwidth usage.
- When you are satisfied with your settings—that is, that the image quality and bandwidth usage meets your requirements—click **Apply** to save your settings. Settings are not saved unless you click **Apply**.

Statistics: Received Bit Rate and Frame Rate

To view in real time the received bit rate and frame rate statistics of the current image:

- 1. Click the Compression Settings tab.
- 2. In the Statistics area, select the Received check box.

Deselecting the check box disables the refresh rate.

Note The Received check box is disabled by default. When you log out, this check box reverts to the disabled state.

Camera Setup

Figure 4-10

The Camera Setup view provides access to the settings used to configure the camera configurations for both Primary and Secondary streams. The following section explains Auto Exposure and White Balance setup.

Note You must click **Apply** after you make changes to any settings to save those changes. Settings are not saved unless you click **Apply**.

Camera Setup

Auto Exposure

The camera lens, lighting, and true day/night options can be configured as needed using the Auto Exposure settings. Use *Table 4-4* to set up Auto Exposure options.

Note You must click **Apply** after you make changes to any settings to save those changes. Settings are not saved unless you click **Apply**.

	Table 4-4	Auto Exposure Settings
Setting	Options	Description
ALC (Automatic Light Compensation)	DC Iris Level: 1–25	For an automatic iris lens. Adjust the DC Iris Level until the image is neither too bright nor too dark.
AGC (Automatic Gain Control)	Off, 10 dB-40 dB	Adjust the maximum value of AGC gain. AGC can be Off , or set to 20 dB , 30 dB , or 40 dB .
		Note As AGC levels are reduced, the threshold ranges for DayToNight and NightToDay are decreased.
DNR (Digital Noise Reduction)	Off, On	Improves picture performance in low light by reducing video noise. DNR is deactivated if AGC is turned Off .
Flickerless	Off, On	Eliminates the "flicker" that can appear in an image under certain lighting conditions (for example, fluorescent lighting).
Digital Slow Shutter (DSS)	Off, Low, High	Automatically provides a clear image under low-light conditions (increasing magnification may cause noise/distortion).
Day/Night	Auto, Day, Night	Set the moving mechanical IR filter within the camera to ensure true 24-hour surveillance.
Night Mode	B/W or Color	Sets the color mode as B/W (monochrome) or Color in Night Mode. Day/Night must be set to Night .
Detect Time	5-60 seconds	Sets the time (5–60 seconds) before the camera switches to Day or Night mode after detecting a low-light condition.
DayToNight	1–7	Day/Night must be set to Auto . Determines the low light detection level (1–7) when the camera switches to Night mode. The lower the value, the darker the lighting conditions before the camera switches.
		Day/Night must be set to Auto .
		Note The DayToNight threshold level must be set at least 2 less than the NightToDay threshold setting.
		Note The DayToNight threshold range is decreased if the AGC level is reduced.
NightToDay	3–9	Determines the low light detection level (3 – 9) when the camera switches to Day mode. The higher the value, the brighter the lighting conditions before the camera switches.
		Day/Night must be set to Auto .
		Note The NightToDay threshold range is decreased if the AGC level is reduced.

White Balance

White Balance ensures that color integrity is maintained in the camera image by compensating for the temperature color "casts" that different light sources can cause. Use *Table 4-5* to set up White Balance options.

Note You must click **Apply** after you make changes to any settings to save those changes. Settings are not saved unless you click **Apply**.

Table 4-5White Bal	ance Settings
Option	Description
AWC Auto (Auto White Balance Control Mode)	A faster AWB mode with a wide operating range.
MWB (Manual Mode)	Manual white balance mode. Set the Red and Blue gains from 0-255.
AWC Push (Auto White Balance Control Mode)	Automatically adjust the white balance to your specific environment. When selected, the white balance is locked.
	Note This setting is recommended for situations in which the light conditions are constant, so that the specified color temperature does not change.

Video Analytics

The HD3MDIP/X camera can be configured to detect camera sabotage and motion within a scene via the Video Analytics view (see *Figure 4-11*). The Video Analytics tab enables a user to set the tamper detection threshold settings for blur, blinding and scene changes.



Figure 4-11 Video Analytics Tab

Each setting has three threshold levels: high (80%), medium (50%) and low (30%). When these thresholds are exceeded, camera sabotage or motion is detected, and alarm messages appear above the video display and alarm signals are sent to DVRs/NVRs (see *Figure 4-13*).

Sabotage Detection

Set the Blur Threshold . Blur can be affected by elements	Tamper Detection Settings		
such as water, for example	Blur Threshold	Medium (50%)	
Set the Blinding Threshold.	-Blinding Threshold	Medium (50%)	
Blinding applies to obstacles in front of the camera lens	Scene Change Threshold	High (80%)	
		Reset Scene Apply	
Set the Scene Change / Threshold			

Figure 4-12 Tamper Detection Settings on the Video Analytics Tab

There are three types of sabotage detection in the Tamper Detection Setting tab on the Video Analytics tab: blinding the camera, blurring the video display, and tampering with the camera field of view. The user should note that when the following conditions are applicable, the tamper detection features should be manually disabled to avoid raising false alarms:

- During the configuration of the video display
- While text is overlaid on the video
- If the video display becomes too dark





Configuring Video Blur Detection

The video appears blurred when the camera is exposed to elements such as water. When this occurs, video blurring in the field of view is detected and an alarm message appears (see *Figure 4-13*) above the video display. To detect video blurring:

- 1. Click the Video Analytics tab.
- 2. In the **Blur Threshold** list, select one of the following options:

Table 4-6	Blur Threshold Values
Value	To detect
High (80%)	Maximum video blurring. The alarm message appears when the video display is blurred by 80% or more.
Medium (50%)	Medium video blurring. The alarm message appears when the video display is blurred by 50% or more.
Low (30%)	Minimum video blurring. The alarm message appears when the video display is blurred by 30% or more.

3. Click Apply.

Note	To turn off video blur detection, select Disable in the Blur Threshold list. Disable is the default value.
Note	You must click Apply after you make changes to any settings to save those changes. Settings are not saved unless you click Apply .

Configuring Camera Blinding Detection

An obstacle in front of the camera lens can blind the camera. When this occurs, camera blinding is detected and an alarm message appears above the video display (see *Figure 4-13*). To detect camera blinding:

- 1. Click the Video Analytics tab.
- 2. In the **Blinding Threshold** list, select one of the following options:

Table 4-7 Blinding Threshold Values

Value	To detect
High (80%)	Maximum blinding. The alarm message appears when the HD3MDIP/X camera is blinded by 80% or more.
Medium (50%)	Medium blinding. The alarm message appears when the HD3MDIP/X camera is blinded by 50% or more.
Low (30%)	Minimum blinding. The alarm message appears when the HD3MDIP/X camera is blinded by 30% or more.

3. Click Apply.

Note	To turn off camera blind detection, select Disable in the Blinding Threshold list. Disable is the default value.

Note You must click **Apply** after you make changes to any settings to save those changes. Settings are not saved unless you click **Apply**.

Configuring Camera Field of View Change Detection

The Web-Client application can detect tampering of the camera field of view and show an alarm message above the video display (see *Figure 4-13*). To detect a camera field of view change:

1. Click the Video Analytics tab.

2. In the Scene Change Threshold list, select one of the following options:

l able 4	Table 4-8 Scene Change Threshold Values		
Value	e To detect		
High (8	30%)	Maximum change in the camera field of view. The alarm message appears when tampering causes at least an 80% change in the HD3MDIP/X camera field of view.	
Mediur	m (50%)	Medium change in the camera field of view. The alarm message appears when tampering causes at least a 50% change in the HD3MDIP/X camera field of view.	
Low (3	60%)	Minimum change in the camera field of view. The alarm message appears when tampering causes at least a 30% change in the HD3MDIP/X camera field of view.	
3. Click	Apply.		
Note	Note To turn off camera field of view change detection, select Disable in the Scene Change Threshold list. Disable is the default value.		
Note	You must click Apply after you make changes to any settings to save those changes. Settings are not saved unless you click Apply .		

 Table 4-8
 Scene Change Threshold Values

Configuring Video Motion Detection

For motion detection, an Administrator can enable and configure up to 5 zones within a scene. The enabled and configured zones will be monitored for motion.

- 1. Click the Region drop-down menu, then select a region from the five available.
- 2. Click the VMD drop-down arrow, and select **Enable**. The Regions appear in their default positions.
- 3. Click Apply.
- 4. Click and drag the box to resize and place it over the camera image.
- 5. Select the sensitivity level (High, Medium, Low).



Figure 4-14 Video Analytics: Defining a Region

Note To disable a zone, click the VMD drop-down menu, then select **Disable**.

Alarm and Audio

Alarm Settings

Connect external devices such as sirens or flashing lights to the alarm output connector to signal users of the camera that an alarm is activated. Set the **Alarm Output** as **Normally Open** or **Normally Close**. See *Connecting Alarms* on page 20 for more information.

When alarm inputs are connected, the camera triggers an alarm only when the normal state (open or closed) changes. An alarm message appears on the Web-Client screen (see *Figure 4-13*) to notify the operator.

Audio Settings

The network camera supports bi-directional audio. There are two supported voice band channels that function in full duplex mode. Connect industry-standard line level audio input and output to the back of your camera. See *Connecting Alarms* on page 20 for more information.

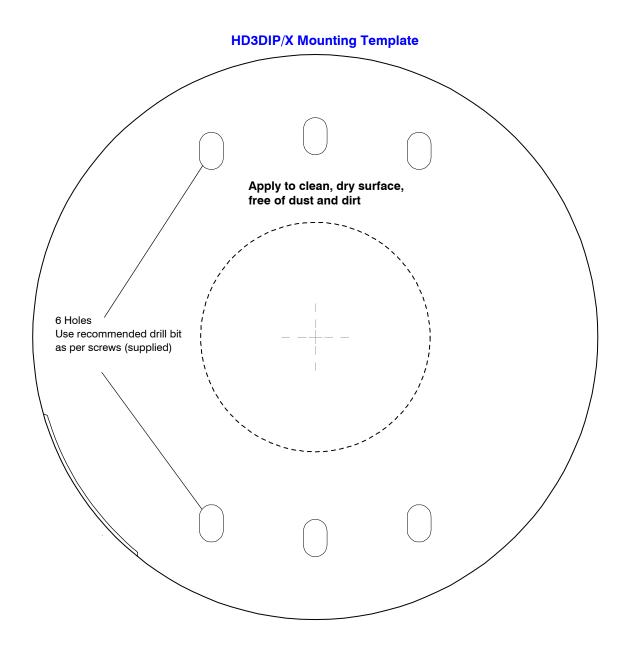
Audio configuration for your network camera is straightforward.



To listen to or capture audio from the camera, enable the **Camera to Client (PC)** check box (Camera to Client (PC). To listen to audio from the client (PC), enable the **Client (PC) to Camera** check box.

IP Camera Web-Client





Δ

Mounting Template

B

Troubleshooting

Technical Support

Prior to calling Honeywell technical support, refer to the following topics for possible solutions to problems with your HD3MDIP/X camera. To contact the Honeywell Video Systems technical support team, call 1-800-796-2288 (North America only) or send an e-mail to HVSsupport@honeywell.com.

Any equipment returned to Honeywell Video Systems for warranty or service repair must have a Return Merchandise Authorization (RMA) number. The RMA number must be clearly marked on all return packages and internal paperwork.

Problem: Lens Out of Optical Focus

Possible solutions:

- 1. Verify that the lens cap has been removed from the camera.
- This can also be caused by dirt, oil, grease, and fingerprints, and so on, that have accumulated on the lens or bubble. Check the lens and bubble, then clean them, if needed.
- Caution Use extreme caution when cleaning the lens and bubble so you do not scratch their optical surfaces. Prepare a washed-out cotton cloth or lens cleaning paper with alcohol or lens cleaning liquid. Clean by moving spirally from the lens center towards its rim. Repeat until the lens is completely clean.

Problem: Live View Does Not Display the Expected Video

Possible solutions:

- Ensure that your web browser settings have been configured to allow ActiveX controls (see *Installing the Honeywell IP Utility and HD3MDIP/X Web-Client Software* on page 29 for information on setting up your browser).
- Ensure that the network cable from the camera is connected to both the camera and the network.
- Ensure that the camera assembly board DIP switch settings are configured correctly.

Problem: Cannot Connect to a Device

When the following message (*Figure B-1*) displays in the status bar of the IP Utility, your device connection is limited. Usually this warning indicates that your PC and the device your are connecting to are on different subnets. Contact your network administrator for help to resolve your network issue(s).



С

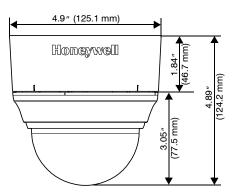
Specifications

Note These specifications refer to all models, except where otherwise noted. Specifications are subject to change without notice.

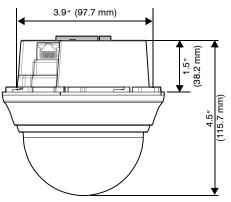
Video Signal Specifications	NTSC	PAL	
Scanning System:	Progre	essive	
Image Sensor:	1/4" C	MOS	
Number of Pixels (H x V):	1280 >	(720	
Minimum Illumination:	1.0 lux color @	50 IRE, F1.2	
Video Output (local):	1.0 Vp-р @	75 Ohms	
S/N Ratio:	50 dB or more (AGC Off)		
Auto Gain Control (AGC):	Off/On, selectable (20 – 40 dB)		
Auto Electronic Shutter (ELC):	1/60 - 1/100,000 sec	1/50 - 1/100,000 sec	
Automatic Lens Iris Control:	DC Iris level 1 – 25		
White Balance (AWB):	AWC, MWB (Manual Mode), AWC Push		
Lens Type:	3.3 mm to 12.0 mm Vari-focal Auto Iris, F1.6		
Audio Signal Specifications			
Audio/Two-Way	Line in/out		
Electrical Specifications			
Input Voltage:	24 VAC, PoE IEEE 802.3af		
Input Voltage Range:	age Range: 17 – 28 VAC		
Surge Suppression	1.5 kW transient		
Power Consumption:	5 W (max)		
Mechanical			
Dimensions (WxH):	See diagrams (<i>Figure C-1</i> , <i>Figure C-2</i> , <i>Figure C-4</i> , <i>Figure C-4</i>)		
Weight:	1.5 lb (0.68 kg) camera only		
Construction: Housing: Polycarbonate Finish: Matte texture, Off-white		-	
Connectors:	Local Video Output: 2- Power Input: Remo Alarm I/O: Remova Audio I/O: Remova Network: RJ4	vable screw block able screw block able screw block	

Environmental			
Temperature:	Operating: 14°F to 122°F (-10°C to 50°C)		
	Storage: -4°F to 140°F (-20°C to 60°C)		
Relative Humidity:		0% to 85%, non-condensing	
IP Specifications			
Video Compression:	MPEG-4, MJ	PEG	
Resolutions:	HD:	1280 x 720	
	SVGA:	800 x 600	
	VGA:	640 x 480	
	QVGA:	320 x 240	
Software Update:	Field Upgradeable		
Frame Rate NTSC/PAL:	Up to 30/25 fps video in all resolutions		
Video Streaming:		al Streaming: MPEG-4 and MJPEG	
		ntrollable frame rate and bandwidth	
		nstant or variable bit rate (MPEG-4)	
Security:	Multiple user access levels with password protection		
Users:	1 Administrator; 1 Guest		
Video access from web	Camera live view for 1 client. Full control of all camera settings available to administrator		
	Pentium IV CPU 3.1 GHz or equivalent AMD		
-		1 GB RAM	
requirements:	Wind		
Installation, Management, and	· · ·		
Maintenance:	•	tatus of the device. Firmware upgrades over	
		vare available at www.honeywellvideo.com.	
Supported Protocols:	HTTP, TCP	, RTSP, RTP, UDP, ARP, DNS, RTCP, FTP,	
	IC	MP, DHCP, Bonjour, IGMP, Telnet	
Regulatory			
Emissions:		EN55022	
Immunity:	EN 50024		
Safety:	EU: 2006/95/EC LVD; UL 60950		
Mounts			
HD3MDIP-PK		Pendant mount bracket	
HD3MDIP-WK	Wall mount bracket		

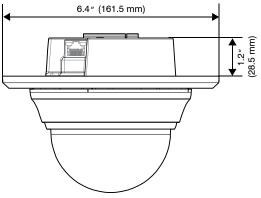


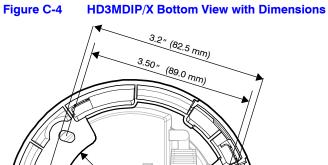


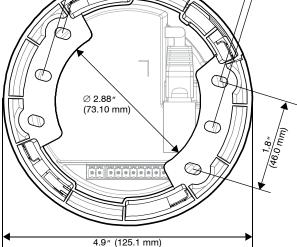












Specifications

D

Glossary

AGC (Automatic Gain Control) Video Amplifier in a camera that boosts the amount of video gain (including the noise) to maintain a 1V p-p (1-volt peak-to-peak) video signal output. It becomes operational when the light level is low. The circuit is designed to compensate for fluctuations in scene illumination which would cause the video output level to be too low. If the video level (scene illumination) is adequate, the circuit does not apply any gain to the signal. As the video level falls, more gain is applied by the AGC circuit to the video signal.

ALC (Automatic Light Compensation) Setting in an Auto Iris lens to control the iris opening. Adjusts between peak and average to respond to the bright part of the scene (peak setting) or the average value of the video signal (average setting).

DHCP (Dynamic Host Configuration Protocol) Allows a server to dynamically assign IP addresses to nodes (workstations) automatically. Provides client information including subnetwork mask, gateway address, and DNS (Domain Address Server) addresses.

DNR (Digital Noise Reduction) Digital Noise Reduction eliminates the "flicker" that can appear in an image under certain lighting conditions (for example, fluorescent lighting).

DSS (Digital Slow Shutter) Automatically provides a clear image under low-light conditions (increasing magnification may cause noise/distortion).

Flickerless Eliminates the "flicker" that can appear in an image under certain lighting conditions (for example, fluorescent lighting). This is usually caused by the interaction of the shutter with the AC frequency of the lighting. The flickerless setting changes the camera shutter speed to a value that will not cause flicker (1/100 sec, NTSC, 1/120 sec for PAL). The side effect is that the camera sensitivity is reduced because the electronic iris feature has effectively been turned off and will no longer control the optimum exposure setting for available light conditions.

FOV (Field of View) The part of the scene visible with a particular lens. The height (horizontal) and width (vertical) picture size at a given distance that can be seen through a lens. Generally, shorter focal length lenses have a wider field of view than those with longer focal lengths.

Gain The amplification a system provides to a signal.

IP Address A unique, 32-bit identifier for a specific TCP/IP host computer on a network.

Iris Adjust Adjusts the iris to either open or close in response to changing light conditions.

NTSC (National Television Standards Committee) A standard of specifications for television transmission in the U.S., Canada, Japan, Central American, and half of South America. The North American system uses interlaced scans and 525 horizontal lines per frame at 30 frames per second.

PAL (Phase Alternate Line) A standard of specifications for television transmission for color TV signals used in West Germany, England, Holland, Australia, and several other countries. It uses an interlaced format with 625 lines per frame at 25 frames per second.

PoE (Power over Ethernet) A system designed to transmit electrical power, along with data, to remote devices over a standard twisted pair cable in an Ethernet network.

Shutter Speed The speed at which the charge is read out from the CCD chip. Adjusts the light sensitivity of the camera. A faster (briefer) shutter speed can arrest the motion of a fast moving object (reduce image blur), rendering it sharp. Fast shutter speeds allow less light to all on the CCD and can darken the image. For fast shutter speeds, ensure there is adequate lighting. Usually selected using DIP switches on the side of the camera.

Subnet Mask A number used to identify a subnetwork so that an IP address can be shared on a LAN.

True Day/Night The incorporation of a moving mechanical IR filter within the camera ensures true 24 hour surveillance, providing high quality color images during the day and similar quality black & white images at night when used with IR lighting.

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