OneHome[™] Management and Control Solutions

Camera Integration Note

Manufacturer:	Panasonic		
Model Number(s):	BB-HCM381A/ BB-HCE481A/ BB-HCM527A		
OneHome Versions:	4.0.1310.0 or higher		
Comments:	Network Camera (EasyConfig.exe version 3.10)		
Document Revision Date:	5/19/2011		

NOTE: This document refers to Camera setup in software versions below 5.2 ONLY. Please see the Rev 5.2 Integration Note for systems running 5.2 or greater.

OVERVIEW AND SUPPORTED FEATURES

Installing the Panasonic camera can be broken down into the following steps:

- 1. Install cameras at desired locations, and pull power and Cat5 cabling as needed. Refer to the Panasonic documentation for mounting details.
- 2. Connect the cameras electrically to the home network and configure the cameras. See **Camera Configuration**.
- 3. Integrate the cameras into the **One**Home system and test proper operation. This step is outlined in **HomeLogic Configuration Details**.

THESE CAMERAS SUPPORT THE FOLLOWING FEATURES:

Pan / Tilt: The camera can be turned to see various locations.

Zoom: The camera can zoom in/out.

Presets: These cameras support presets, allowing the user to store predefined locations such as a driveway or pool.

Built-in Audio: There is a jack for an external microphone. Audio from the Panasonic cameras is supported in version 4.0 and later.

Video Out: The camera includes an analog video output, which can be connected to an analog DVR to provide separate recording, or to a TV modulator to enable camera viewing on a television.

Image Flip: The camera can be mounted with its base up or down, and the image will appear normal.

Motion Detection: These cameras support motion detection to trigger events in the OneHome system.

Outdoor Dome: The BB-HCM381A/ BB-HCE481A cameras can be mounted outside in a protected dome. The dome part number is BBHCH280P, available from HomeLogic.

THESE CAMERAS DO NOT SUPPORT THE FOLLOWING FEATURES:

Input/Output: These cameras include an I/O connector for sensor inputs and alarm outputs. These are not supported by the OneHome system at this time.

2-Way Audio: These cameras include an Audio Out jack so a speaker can be connected for 2-way audio. Sending audio from a touch screen to the camera is not currently supported.

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CAMERA CONFIGURATION

The camera configuration is done with software provided by Panasonic, which must be run from a computer with Windows also connected to the same network as the camera.

The software program from Panasonic is **EasyConfig.exe**: the version we checked is shown at the top.

IMPORTANT NOTES

- 1. **Cameras must be configured one at a time**: If you are installing more than one camera, setup the first one completely before powering up subsequent cameras.
- 2. Setup the camera within 20 minutes: Initial settings must be made within 20 minutes of the camera being turned on. If the camera has been powered up for more than 20 minutes, cycle power to the camera before proceeding.
- 3. **DON'T LOSE THE CAMERA PASSWORD:** During setup you will create a user name and password, which are required to make any other changes in the future. If you lose the user name or password you will have to factory reset the camera and repeat this entire procedure.
- DEFAULT USER NAME / PASSWORD: For Panasonic cameras, our default user name is Administrator and our default password is password. If the username and password are set to something other than Administrator/password then the camera view presets may not be reprogrammable.

STARTING THE PANASONIC CAMERA SOFTWARE

- 1. Insert the CD from the camera into your PC: It should autostart the Network Camera Setup software. If it does not, launch Setup.exe from the Panasonic CD.
- 2. The following Screen appears. Choose Search for Cameras.

etwork Camera	
	About this program
Panasonic	
Search fo	r Cameras
Ma	nual
Update	Firmware
	Firmware
Save Settings to PC/S	

3. Wait a moment to allow the software to find the camera: the following screen appears.

D.	MAC Add	IPv4 Address	Port	Camera Name	Firmware Ver	Boot Version	Model No.	Camera Status
	00-80-F0	10. 11. 80. 84	80	NetworkCamera	1.30	1.30	BL-C30A	Static IP address(8d00)
	00-80-F0	10.11.80.253	80	BB-HCM511A	3.20R01	3.20R01	BB-HCM511A	Local setup completed(c10
	00-80-F0	10. 11. 80. 86	80	BB-HCM581A	3.51R00	3.51R00	BB-HCM581A	Static IP address(8d00)
		-1						7
Be	egin Search			A	ccess Camera	Net	work Settings	7
70.5	egin Search		Se	A	ccess Camera	Net	work Settings	7
IF]			ccess Camera	Net	work Settings	Search by MAC Addres

4. Select the desired camera, and then click the **Access Camera** button. After a short delay you will see a new browser window with the password settings shown below:

Security: Administrator - Microsoft Internet Explo								
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(http://192.168.0.80)Cgillantar/Mode=Local 💉 🖻								
Security: Administrator								
Please enter the Administrator's User Name and	Password.							
Security: Administrator								
New User Name (6 to 15 characters)	Administrator							
New Password (6 to 15 characters)	•••••							
Retype new password	******							
Rebyte new password •••••••• Note :(1)You'll be saked for User name and password to open camera's web page. Please keep your User Name and Password securely. (2)Alphabet and number only. [Space],[7][1,8][1,1] (7) r [>] are not allowed. (3)A.capital letter/small letter is distinguished. (4)User Name and Password must be different from each other. (5)It is strongly recommended to change password regularly for security.								
St	we							

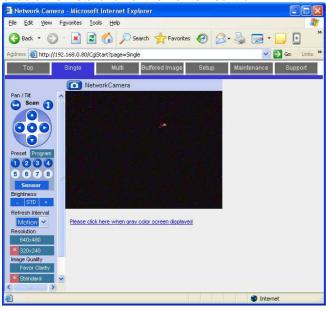
- 5. Type in your desired user name and password and click Save. By default we set the user name to **Administrator** and the password to **password**.
- 6. You will be prompted to enter your user name and password again, as shown in the image below. Type in the user name and password you just set, and click **OK**.

210				
Administrator				
User name:	🖸 Administrator 💌			
Password:	•••••			
	Remember my password			

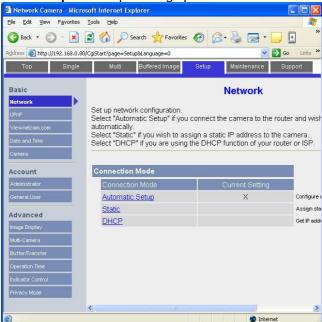
7. After a short delay, you should see a new browser window, similar to that shown under Camera Settings below.

CAMERA SETTINGS

- 1. After typing in your user name and password, you will be shown the standard browser interface to the camera.
- 2. The system will attempt to install an ActiveX control to show the camera image in the browser window. This control is not needed for proper **One**Home operation, but is needed if you wish to see the camera image on that computer. If any dialogs appear, close them or accept the ActiveX control as appropriate for your situation.
- 3. On Windows computers with popup blocking enabled, you will need to click the appropriate bar to enable the installation of the ActiveX control.



4. Click Setup at the top to bring up the screen shown below:



5. Click **UPnP** on the left, then click **Disable** in the both parts of the screen, as shown below. Click **Save** to store your settings.

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Address 🙆 http://192.168.0.80/	/CgiStart?page=Setup&Language=0	🔽 🛃 Go 🛛 Links 🎽		
Top Single	Multi Buffered Image Setup Maintenance Sup	port		
Basic	UPnP	Ĩ		
Network	K	a an anda ana farrana farrana an atao		
UPnP 🕨	If your router supports UPnP, you can automatically configure the the camera can be accessed from the Internet by enabling UPnF			
Viewnetcam.com	Note: When a global IP address is assigned to the camera, UPn	P function doesn't work.		
Date and Time				
Camera	Auto Port Forwarding By enabling "Auto Port Fo			
Account	OEnable	can automatically configure the router's port forwarding so that the camera can		
Administrator	⊙ Disable	be accessed from the Internet. Note:Effective only when network		
General User		configuration is set to "Static" or "DHCP".		
	Display Shortcut Icon in My Network Places	By enabling this function, the camera's		
Advanced	OEnable	shortcut icon is displayed on your computer's "My Network" folder.		
Image Display	Disable	Note: This function is only available with Windows XP or Windows Me.		
Multi-Camera	[Optionic			
Buffer/Transfer	Save			
Operation Time	Jave			
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Privacy Mode				
<u>.</u> ළි	×	Internet		

6. Under Accounts to the left, click **Administrator** to bring up the screen below. Click **Permit** access from guest users, as shown below. Leave the **Password** boxes blank to prevent changing your password, then click **Save** to store your changes. Click **OK** on any warning messages.

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ddress 🕘 http://192.168.0.80	/CgiStart?page=Setup&Language=0		Go Links
Top Single	Multi Buffered Image	Setup Maintenance	Support
Basic		Security: Administ	rator
Network	_	12	
UPnP	For security management, you Only the administrator can ac		
Viewnetcam.com			
Date and Time	General Authentication		Select if you allow guest users to
Camera	Annual of the second second	access the camera or not.	
	Permit access from gu	Leave "Password" column blanked if you do not wish to change the	
Account	O Do not permit access fi		
Administrator	Administrator Authenticatio		
General User	User Name (6 to 15 Characters)	Administrator	password. Please refer here for the instructions how to assign user name
Advanced	Password		and password. Note(1)User Name and Password must
Image Display	(6 to 15 Characters)		be different from each other. (2)It is strongly recommended to
Multi-Camera	Retype Password		change password regularly for security.
Buffer/Transfer			
Operation Time		Save	7
Indicator Control		Save Cancer	
Privacy Mode			
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7. Under Accounts to the left, click **General User**, select **Guest User** and click **Modify** to bring up the screen below. Click on all check boxes and set the **Limit time of Continuous Motion JPEG** to **Unlimited** as shown below. Click **Save** to store your changes.

Network Camera - Micr		
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Top Single	Multi Buffered Image Setup Maintenance Support	
Basic	Modify General User	
Network(IPv4)	Modify General User registration information	
Network(IPv6) IPsec		
UPnP	Access Level You can set Access Level for Guest	
Viewnetcam.com	Limit time of Continuous Unimited Unimited User. Use	
Date and Time	Refresh Interval 3s 💌	
Camera	Pan / Tilt Control	
Account	Zoom Control	
Administrator	✓ Focus Control	
General User	Preset Control	
Advanced	Click to Center Control	
Image Display	☑ Brightness Control	
Muti-Camera	External Output Control	
Butter/Transfer	Change Refresh Interval	
Operation Time	Change Resolution	
External Output	Change Quality	
Indicator Control	Capture Image Button	
	View Multi-Camera page	
	☑ View Buffered Image page	
	Save Cancel	
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8. Click Network(IPv4) to bring up the network settings screen shown below.

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Top Single	Multi Buffered Image	Setup Maintenance Su	ipport					
Basic Hetwork(IPv4) Network(IPv6) Psec UPhP Viewnetcam.com	Set up network configuration. Select "Automatic Setup" if you co automatically. Select "Static" if you wish to assig Select "DHCP" if you are using the	n a static IP address to the c	amera.					
Date and Time	Connection Mode							
Camera	Connection Mode	Current Setting						
Audio	Automatic Setup	X	Configure network settings automatically					
Account	Static		Assign static IP address to the camera.					
Administrator	DHCP		Get IP address from DHCP server					
General User								
Advanced								
Image Display								
Multi-Camera								
Buffer/Transfer								
Operation Time								
External Output								
Indicator Control								
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9. Click **Static** in the Connection Mode to bring up the screen below.

	Single	Multi Buffered Imag	ge Setup Maintenance	Support
Basic Ietwork(IPv4) Vetwork(IPv6)	Y	S ou can configure network	tatic IP Address Cor	nfiguration
Psec JPnP /iewnetcam.com		Network Configuration 1	from Setup Program	After setting network configuration, you must set disable for network security.
Date and Time		nternet Connection		Configure Port Number, IP Address, and Subnet Mask assigned from your ISP
Camera		Port No.	80	(Internet Service Provider) or Network Administrator, When you connect two of
Audio		IP Address	192.168.0.253	more cameras to the router, you need to assign different Port Number for each
Account		Subnet Mask	255.255.255.0	camera.
Administrator		Default Gateway		In case of communication over the
General User		Default Gateway	192.168.0.5	gateway, you must enter the proper address.
dvanced	6	ONS		In case of using DDNS, FTP, E-mail or
mage Display		DNS Server 1	192,168.0.5	Multi-Camera, you must enter the proper address.
Multi-Camera		DNS Server 2		
Buffer/Transfer	- C 17	Max. Bandwidth Usage		
Operation Time		Unlimited V		It can restrict the transmit bandwidth.
External Output	_	Connection Type		Note: Use "Auto Negotiation" in most
		Auto Negotiation	cases.	

- 10. Set the IP address to the desired value: we suggest setting the first camera to 192.168.0.80, the second to 192.168.0.81, and so forth. Check the other settings so they match the screen above, then click **Save** to save the settings.
- 11. If prompted, click to **Restart** to restart the camera, this may take a minute or so. When finished the camera's homepage will display.
- 12. Note that the camera is now at a different IP address, so if after a few minutes the browser window does not show the camera homepage then go to the address line in the browser, and put in the new IP address as shown below:



- 13. The camera is now at the correct IP address with the correct settings.
- 14. Close the browser.

MOTION DETECTION FOR HOMELOGIC DVR CONFIGURATION

To use Panasonic IP Cameras with the HomeLogic DVR tab, enter the web configuration by typing the camera IP into the browser and logging on using your username and password. Click Setup, and then below Buffer/Transfer click **Motion Detection**. Threshold is the measure of the camera's sensitivity to change—a lower setting will cause it pick up smaller changes. Sensitivity affects the light sensitivity—a higher setting will result in more frequent detections of lighting changes.

Typically, the **Threshold** should be set to the LOWEST setting and **Sensitivity** should be set to the HIGHEST.

Тор	Single	Multi	Buffered Image	Setup	Internet	Mainter	nance	Support
Basic Network (Pv4)	_			Moti	on Detec	tion		
Network (IPv4) Network (IPv6)		Setup Motion	Detection.					
UPnP		-						
DynamicDNS Date and Time	_	Motion Det	ection				Fachler	ob en Televis is the metion
Camera		Thresh	old				detection	
Audio		Low				High		st the threshold. If the threshold
Video Streaming						;		t low, this software sensitively cts changes.
Account		Sensiti	-		Ulah san		(Defa Sensitiv	ault:Third blocks from the left)
Administrator		LOW S	ensitivity		High sen	ISILIVILY	If you	set sensitivity high, amplitude
General User	_	-						otion detection bar gets jumpy. ault:Center)
Buffer/Trans	fer							
Trigger Motion Detectio	n			S	ave Cance	1		
Alarm Log								
Advanced								
Image Display								
Multi-Camera								
Operation Time								
External Output	11/44							
Analog Video Out	put							
Indicator Control								

Please see the **DVR Integration Note** for full details on setting up the DVR tab in HomeLogic.

HOMELOGIC CONFIGURATION DETAILS

The following table provides settings used in the HomeLogic Configurator. Please refer to the Configurator Reference Guide for more details. In the table below:

• "<User Defined>", etc. Type in the desired name for the item.

Devices	Variable Name	Setting	Comments
Communication Device	N/A (See Note 1)	N/A (See Note 1)	
Video Cameras	Name	<user defined=""></user>	
	Device Type	Panasonic BB-HCM381A	
	Location	<user defined=""> (Not Required)</user>	
	IP Address	<user defined=""> (Default: 192.168.0.80) (See Note 2)</user>	
	Port	80	Typically left at 80
UserName		<user defined=""> (Default: Administrator)</user>	
	Password	<user defined=""> (Default: password)</user>	
	Low-Res Panning	<select> (Default: <No>)</select>	
	Flip Image 180	<select> (Default: <No>)</select>	Set to YES if camera is inverted
	Hide Resolution Control	<select> (Default: <No>)</select>	
	Hide Full Screen Control	<select> (Default: <No>)</select>	
	Default Resolution	<select> (Default: <auto>)</auto></select>	
	Goto Preset when Idle	<select> (Default: <none>)</none></select>	Camera will Pan/Tilt/Zoom as applicable to a certain preset when no streams active.
	Record Resolution	<select> (Default: <don't change="">)</don't></select>	Don't Change will default to last active resolution, or set a specific resolution for recording
	Record Tolerance	<select> (Default: 0% (Keep All Frames))</select>	Higher will discard frames with no motion to conserve disk space
	Motion Detect	<select> (Default: Disabled)</select>	Enable to trigger event maps when motion detected (DVR)
	Software Motion Trigger	<select> (Default: 50%)</select>	Lower is more sensitive.

Notes:

1. No Communication Device is needed: just add Video Cameras.

2. By default, set the first camera to 192.168.0.80, the second to 192.168.0.81, and so on.