MegaVideo® Compact Camera Installation Manual

Arecont Vision

megapixel technology...
beyond imagination

PSIA ONVIF

MegaVideo® Compact Camera Installation Manual

Inside the box:

A. MegaVideo® compact camera
B. Rubber gasket (preinstall on the camera)
C. CD with AV100 software and user manuals (license key required for recording)
D. C to CS lens adapter
E. 0.5mm lens spacer ring
F. 6-position external power & IO plug
G. 0.05" hex L-Key

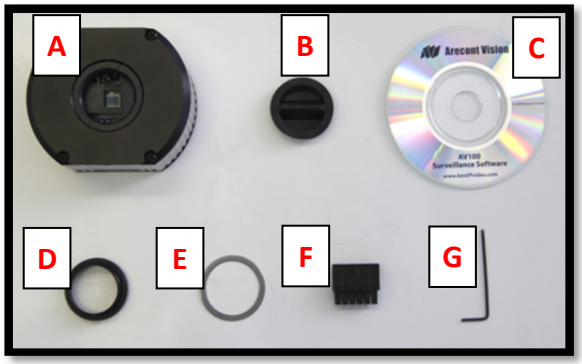

Image 1

Camera Power Up:

1. Remove the camera and hardware from the box.
2. Attach the camera to the mounting bracket.
3. Connect the MegaVideo® Compact Camera to a PoE port on 100Mbps network PoE switch using an Ethernet cable as shown in **Image 2**, if using a PoE solution.

Image 2

4. Connect the PoE switch to your computer's network port using an Ethernet cable. *If the camera will be powered via PoE, please skip to step 5.*

   NOTE: A yellow LED on the rear of the camera will turn on after a few seconds.

   a. The flashing yellow LED indicates that a link to your computer has been established.
   b. A green LED will blink when the camera has been accessed.

5. If the camera is powered by an outside power supply, connect the power wires to the appropriate contacts of the 6-postion connector using a small flathead screwdriver and connect the 6-position plug to the camera as shown in **Image 3-1.**

*NOTE 1: Ensure that the polarity of the DC input on the camera matches the way that wires are installed in the connector shown in **Image 3-2**.*

NOTE 2: AC power does not have polarity.

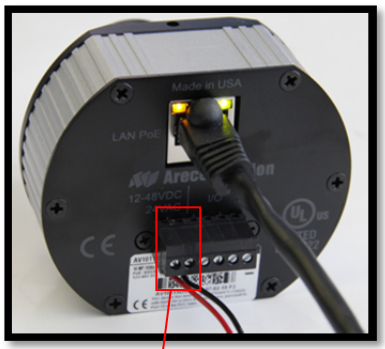

Image 3-1

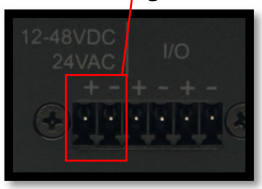

Image 3-2

<u>Camera Installation:</u>

6. Install the AV100 application manager software as shown in **Image 4**. (found on the CD)

7. Run the AV100 application manager by double clicking on the icon as shown in **Image 5**. (found on your desktop)

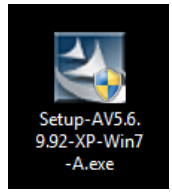

Image 4

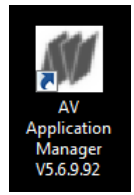

Image 5

8. Select “Run” next to “Setup Cameras” from the AV100 application manager as shown in **Image 6** and wait for “Arecont Vision Camera Installer” window to appear as shown in **Image 7**.

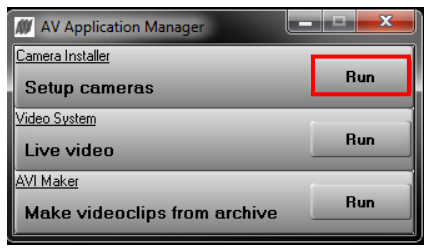

Image 6

9. Click “Mode” tab to select desired install mode on the Arecont Vision Camera Installer as shown in **Image 7**.

NOTE 1: Basic Mode (default setting): software will automatically discover and change / assign IP address to match PC subnet.

NOTE 2: Advanced Mode: software will automatically discover but allow manual update of the IP address. See “AV100 Installation Manual” (found on the CD) for details on Advanced Mode.

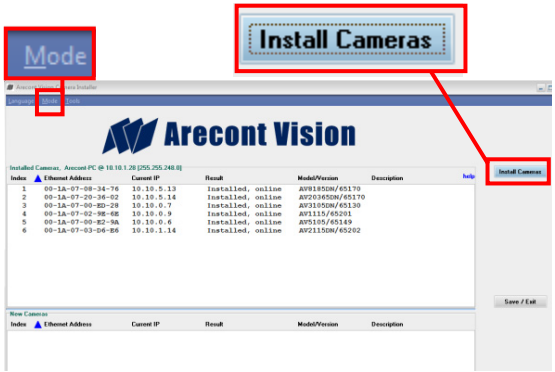

Image 7

10. Select “Install Cameras” on the Arecont Vision Camera Installer as shown in **Image 7**.

11. Confirm all cameras connected to the network switch appear in the upper window.

12. Repeat **Step 10** if all of the cameras do not appear in the upper window.

    CAUTION: If the software does not find a camera, the software utility may be blocked by the anti-virus or Windows® firewall. Before turning them off, please consult your IT manager.

    *NOTE : Double click the camera model on the Camera Installer as shown in **Image 8** to access the camera web interface. See “AV Camera Web Page User Manual” (found on the CD) for details on the web interface.*

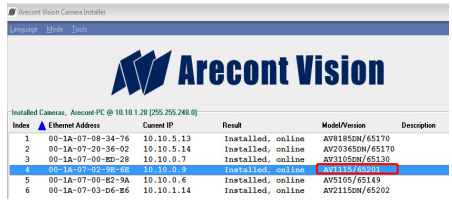

Image 8

13. When all cameras appear, select “Save/Exit.” The AV100 application manager will appear.

14. From the “AV100 Application Manager” menu, select “Run” to view live images.

    NOTE : See “AV100 Installation Manual” (found on the CD) for details on camera configurations.

<u>Camera Focus:</u>

15. Install the C/CS lens adapter ring for a C mount lens. If unable to properly focus, add the 0.5mm spacer <u>before</u> attempting to adjust the back focus.

    *NOTE: All MPL series lenses except MPL6.0 are CS mount and do not require the C/CS lens adapter ring to focus the camera as shown in **Image 9**.*

Image 9

Image 10

*NOTE: The Ultra HD Lens series is C mount and will require the C/CS lens adapter ring in order to adjust the back focus as shown in **Image 10**.*

16. Loosen the set screws on the lens.

17. Fully open the lens iris aperture.

18. Focus the camera lens (Skip **Step 19-21** if correctly focused).

19. If needed, adjust the back focus by using the provided Hex L-Key, loosen the set screws on the top and bottom of the camera, adjust back the focus as shown in **Image 11**.

    NOTE: Some lenses will require back focus adjustment in order to properly focus the camera.

Image 11

20. Focus the camera again.

21. Secure the camera back focus ring with the set screws.

22. Close the lens aperture as necessary to obtain depth of field.

23. Tighten the set screws on the lens.

    NOTE: For more information on proper focusing technique, please watch the "Focusing Arecont Vision Megapixel Cameras" Best Practices Training Video at http://www.arecontvision.com/trainingvideo.php

<u>Auto Iris Camera: (-AI models only)</u>

24. Connect DC auto iris lens cable to the camera as shown in **Image 12 and Image 13**.

25. Repeat **Step 14-22** to focus the camera.

Image 12

Image 13

MegaVideo® Compact Camera I/O Cable Connection

Required Tools:

- Flathead screwdriver

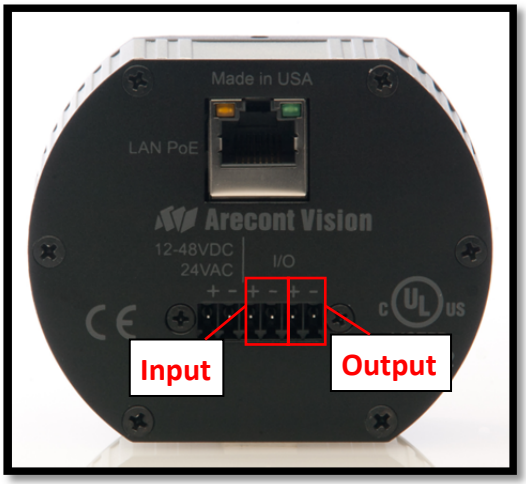

Image 14

1. To use the I/O ports of the MegaVideo® Compact Camera, insert the connector into the camera and locate the "I/O" ports as shown in **Image 14**. *NOTE: There are six connectors that look identical, be sure to use the correct I/O ports as shown in **Image 15**.*

Image 15

Electrical Characteristics:		**Min**	**Max**
Input voltage (V) (measured between + and – terminals)	ON	2.9	6.3
	OFF	0	1.3
Output current (mA) (measured between + and – terminals) Applied Voltage Rage: 0 - 80V	ON	-	50
	OFF	-	0.1

Table 1

NOTE: Both the input and the output are electrically isolated from the rest of the camera's electrical circuitry via general-purpose photo couplers. The input is additionally protected with a serial 250 Ohm resistor and a debouncing circuit. Duration of any input signal should be at least 5ms to comply with the requirements of the debouncing circuit.

Leading the **way** in **Mega**pixel **video**

Arecont Vision
425 E. Colorado Street, 7th Floor
Glendale, CA 91205
support@arecontvision.com
www.arecontvision.com
+1.818.937.0700
877.CAMERA.8

Arecont Vision
megapixel technology...
beyond imagination

R. 01.10