

JKW-IP

IP Video Entry System

JKW-IP Installation Video: http://www.aiphone.com/JKWIP_Video_Inst.htm

Register for FREE Product Updates: http://www.aiphone.com/JKWIP_Reg.htm

QuikStart Guide



This is an abbreviated instruction manual for installation purposes. Please see the JKW-IP Installation Manual and JKW-IP Operation Manual for complete system information.

1 GENERAL OVERVIEW AND WIRING

The following steps will be outlined in this QuikStart guide for setting up your PC and each JKW-IP adaptor. Please ensure that you follow these steps in order.

- JK Door JK-1MED / JK-1MD JKW-IP Option output A1 1A1 B1 B1 Sensor IN 4 A2 1A2 B2 B2 Sensor IN 3 Sensor IN 2 LAN L + -Sensor IN 1 L PT PS-1820U Email AN / WAN
- Step 1: Configure your PC's IP address (pg. 3)
- Step 2: Configure the JKW-IP adaptors(s) IP address (pg. 4)
- Step 3: Install the JKW-IP software (pg. 5)
- **Step 4:** Register each adaptor (pg. 5)
- **Optional:** Optional features (pgs. 6-8)

2 SOFTWARE SYSTEM REQUIREMENTS

Your computer must meet the following system requirements to use the PC Application. For a complete list of precautions, notes on usage, and notices, please see the JKW-IP Operation Manual. Please refer to the JK-1MD or the JK-1MED instructions for other specification requirements, such as cabling type and method.

OS	Software v 1.0.0 32-bit Microsoft Windows [®] XP (SP3), 32-bit Windows Vista	ı® (SP1)
	Software v 1.2.0 32-bit and 64-bit Windows® XP (SP3), Windows Vista® (SP1), a	nd Windows [®] 7
	Software download available at: http://www.aiphone.com/JKW-IP.htm	
PC system		
Requirements	Processor: 2 GHz or faster	
	System memory (RAM): 1 GB RAM or more	
	Hard disk: 10 MB or more (additional space is needed for recording)	
	Sound card: 8-bit full duplex, Direct Sound compatible	
	Display: 1024 x 768 or greater	
	Run-time: Microsoft(R).NET Framework 2.0 or later	
	Network: 10BASE-T/100BASE-TX Ethernet	
Protocol	TCP/IPv4, UDP/IPv4, SIP, SMTP, Others	
Network bandwidth	320 k to 8 Mbps (per IP Video Intercom Adaptor)	
Language	English, French, Spanish, German, Dutch, Italian, Japanese	
Browser	Internet Explorer 6.0 or later (with Internet Options SSL 3.0 enabled)	

Note: Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

3 SPECIFICATIONS

Power	18V DC, Shares power with the JK master monitor
Current consumption	Standby 110 mA, Maximum 200 mA
Communication	Hands-free / Priority transmission
Image Format	JPEG
Image Resolution	320×240 (QVGA)
Network Interface	10BASE-T/100BASE-TX Ethernet
Network Protocol	TCP/IP, UDP/IP
E-mail Authentication	CRAM-MD5 hash, or CLEAR (unencrypted). Does not support SSL authentication.
Network Bandwidth	320 K to 8 Mbps (per IP Video Intercom Adaptor)
Operating Temperature	0°C to 40°C (+32°F to +104°F)
Dimensions	200 (H)×150 (W)×35.5 (D) mm
	7-7/8 (H) x 5-15/16(W) x 1-7/16 (inches)
Weight	Main Unit: Approx. 370 g (0.82 lbs)
Color	White

Note: The PC Application is protected by intellectual property rights owned by International Systems Research Co.

4 WINDOWS NETWORKING BASICS



Step 1: Connect a PC to a hub, switch, or router and verify the computer's IP address.

- a. Open Control Panel and then open Network Connections, (see Figure A above "Network Connections") double click the Local Area Connection (or Wireless Connection if using one) to open the "Connection Status" window (see Figure B to the right "Connection Status")
- b. Left click the Support tab and check the IP address for this connection. If the IP address starts with 192.168.0 and the subnet mask is 255.255.255.0 then skip to Step 2, otherwise continue to step "c" following:
- c. In the Connection Status window, left click the General tab and then click the Properties button to open the "Connection Properties" window (see Figure C to the right "Connection Properties")
- d. Scroll down and left click the "Internet Protocol (TCP/IP)" line and click the **Properties** button to open the Internet Protocol TCP/IP Properties window (see Figure D to the right "Internet Protocol TCP/IP Properties")
- Select the radial button 'Use the following IP address' and then type in the IP address 192.168.0.100 (the last number can be any valid host address except 30) and change the subnet mask to 255.255.255.0, then click OK in the Internet Properties (TCP/IP) Properties window
- f. Click OK in the Connection Properties window to accept these changes. Verify the new settings have been applied by viewing the Connection Status window's Support tab

The computer is now ready to setup each JKW-IP from the factory default settings.

4 Local	Area Conn	ection Status 🛛 🛛 🔀
General	Support	
Connec	tion status	
1	Address Type:	Alternate Manually Configured
~ <u>~</u>	IP Address:	192.168.1.100
	Subnet Mask:	255.255.255.0
	Default Gateway:	192.168.1.1
	Details	
Windows connecti Repair.	did not detect proble on. If you cannot conr	ms with this Repair nect, click

🗕 Local Area Connection Prope ? 🔀
General Advanced
Connect using:
VIA Compatable Fast Ethernet Adapt Configure
This connection uses the following items:
🗹 🚚 QoS Packet Scheduler 📃 🔼
✓ % Network Monitor Driver
Internet Protocol (TCP/IP)
Install Uninstall Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
 ✓ Show icon in notification area when connected ✓ Notify me when this connection has limited or no connectivity
OK Cancel

nternet Protocol (TCP	/IP)Properties <table-cell></table-cell>
General	
You can get IP settings assigned autor this capability. Otherwise, you need to a the appropriate IP settings.	natically if your network supports ask your network administrator for
🔘 Obtain an IP address automaticall	y .
Ose the following IP address: —	
IP address:	192.168.0.100
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	
Obtain DNS server address autom	atically
○ Use the following DNS server add	resses:
Preferred DNS server:	
Alternate DNS server:	
	Advanced
	OK Cancel

5 HARDWARE CONFIGURATION

- Step 2: Configure the adaptor by connecting it to the hub, switch, or router and doing the following:
- a. Open a web browser and point the address bar to <u>https://192.168.0.30</u> and hit Enter.
- b. Click [OK] or [YES] for any Security Alert messages (the wording will vary, see Figure 1 to the right "Certificate Error"), then use the default Admin ID "aiphone" and Password "aiphone" at the login prompt.
- c. Click the Admin tab and click on the [Setting] button next to Network (see Figure 2 to the right "Web Interface, Admin tab").
- d. Change the IP address, subnet mask, and default gateway. Turn OFF UPnP and specify the WAN / Global IP address to be the same as the IP address field above (this is considered the 'Public' IP Address for the adaptor, in most networks it will be the same as the adaptor's 'Local' IP address).
- e. Optional changes:
 - Add a Primary DNS Server if using the e-mail feature.
 - When using network masquerading (or IP masquerading), specify the WAN / Global IP Address to be the Public IP Address for the adaptor and change the Connection, Web, Audio or Video ports as directed by the network administrator.
 - Change Adaptor Name and note that the "_" character can be used to create a space in the software's adaptor list.
- f. Click the [Save] button and then the [OK] button to restart the adaptor. The adaptor will power on with the new settings.

Repeat these steps with the next adaptor until every adaptor has a unique IP address and valid subnet mask.

	Status	lights o	on JKW-IP
Note: Changes to the adaptor in Step 2 a-f can be made as long as the LAN ACT light is	UN AT UT	Lit Blinking Off	Normal Acquiring IP Bad physical network connection
lit solid. Intercom functions will	UN ACT	Lit Blinking	Normal Starting up, seeking JK Master
wired per the diagram on page 2.	STATE OF COMPANY	Lit Blinking Off	On No JK Master detected Off

Figure 1: Certificate Error



Figure 2: Web Interface Admin tab

Favorites	# FrontDoor		a • 6	- 🗆 🖶 •	Page •	
		1.1.1.1.				
Use		Admin				
dministrat	or Registration			Setting		
ser Regis	tration			Setting		
Imail				Setting		
ensor IN /	Option OUT			Setting		
Network				Setting		
.og / Firmw	are Update			Setting		

Figure 3: Network settings

FrontDoor - Windows In	ternet Explorer		×
https://192.168.0.30/cgi-bin/SetTush	nin.cgi	Certificate Error	2
Network			^
O Static IP Address by DHCP			
Static IP Address	400		
IF Address Submet Mask	192 . 100 . 0	. 30 .	
Default Cateway	102 169 0		
Primary DNS Server	152 . 166 . 10		
Secondary DNS Server			
	· · ·		
O UPnP ON	OFF		
WAN / Global IP Address	192 . 168 . 0	. 30	
Connection Port	5060		
Connection Password	•••••		
Audio Port	65002		
Video Port	65202		
Web Port	443		
Update Encryption Key File		UPDATE	
MAC Address	00:0B:AA:06:01:F0		
Adaptor Name	Front_Door		
Adaptor Language	English 💙		
Video Setting			
Frame Rate	15fps 💌		
Quality	10(High) 🔽		
		0.01/5	
Deheat		SAVE	
Repool			
			~
	🥬 Internet	🖓 🔹 💐 100% 🔹	.:

Step 3: Install JKW-IP software on an Admin or User PC, using the supplied CD or download it from http://www.aiphone.com

Follow the prompts during installation. The exact prompts will vary depending on the existing software on the PC. When you see the "Browse for Folder" window, specify a valid folder to save recorded files to, such as Shared Documents (see Figure 4 to the right "Saved Recordings").

After installation is complete, launch the program.

Step 4: Register each adaptor with the JKW-IP software. **Right-click** an empty slot in the Adaptor display and choose **Connect** from the drop down menu (see Figure 5 to the right *"Right click drop down menu"*).

This will open the Adaptor Registration window (see *Figure 6, to the right "Adaptor Registration"*).

- a. In the Adaptor box, enter:
 - IP address of the adaptor (or WAN IP address if one was specified in step 2)
 - Connection Port (if changed in step 2)
 - Connection Password (default is "aiphone")
 - Web Port (if changed in step 2)
- b. In the **Admin User** box, enter Admin **or** User ID and password (defaults for Admin ID are both "aiphone").
- c. In the **Network Interface Card: NIC** box, select the wired or wireless network interface card that connects the PC to the network containing this JKW-IP adaptor.
- d. In the **PC Application** box, *leave UPnP ON* unless using a network with NAT or IP Masquerading. If UPnP is turned off, enter the following for incoming data to use:
 - PC local (LAN) IP Address and any 3 ports not blocked by any firewall and not used by any other adaptor registered to this PC.
 - PC Public (WAN) IP Address and ports should be **the same as the above** unless the network admin says otherwise.

Click [OK] and repeat step 3 for each computer and step 4 for each adaptor. Each adaptor's name should appear on the list for the slot registered, and a status icon indicates the adaptor is ready to use.

Figure 7: Status Icon

No	Adaptor	Status
1	Front Door	
2		

Figure 4: Saved Recordings



Figure 5: Right click drop down menu

No Adaptor Status 1 Connect 2 Disconnect 3 Encryption Key 4 Delete

Figure 6: Adaptor Registration

Adaptor Registration	
Adaptor	
IP Address	192.168.0.30
Connection Port	5060
Connection Password	*****
Web Port	443
Admin User	
Password	
Network Interface Card (N	IC):
AMD PCNET Family PCI Et	hernet Ac 💙
PC Application	
OUPnPON ⊙UPnPOFF	:
PC Local (LAN) IP Address	192.168.0.100
Connection Port	10000
Audio Port	20002
Video Port	30002
PC Public (WAN) IP Address	192.168.0.100
Connection Port	10000
Audio Port	20002
Video Dert	20002
video Port	30002
Remember these settings	
	CANCEL OK

6 OPTIONAL FEATURES

Optional Feature: Door Release. Select an adaptor from the Adaptor display list and do the following:

- a. Click the settings button and accept any security warnings.
- b. In the User tab, next to **Encryption Key Down Load** click the [Download] button (see Figure 8 to the right, "Web Interface, User tab").
- Click the [SAVE] button in the File Download window that opens (see Figure 9 to the right "File Download window"). Choose a memorable destination location on the user's hard drive and click [SAVE] and then close the browser.
- d. In the JKW-IP program's window, right click the adaptor in the Adaptor display and choose the **Encryption Key** option from the drop down menu (*see Figure 5 on page 5 "Right click drop down menu"*).
- e. Click the [.....] button and navigate to the location saved in step "c" and choose the file and click [SAVE] button (see Figure 10 to the right "Encryption Key dialog").

Optional Feature: User IDs. Configure user PC's to have limited access to adaptor's configuration via Admin tab of web interface. Select an adaptor from the Adaptor list and do the following:

- a. Click the [Settings] button and accept any security warnings (see Figure 1 on page 4 "Certificate Error")
- b. Click the Admin tab, next to **User Registration** click the [Setting] button (see Figure 11 to the right *"User Registration window"*).
- c. Add (or modify) a User ID and a Password. Click the [SAVE] button to save and close this window.
- Close the web browser and go back to the JKW-IP Program, right click the adaptor's name and click
 Disconnect from the drop down menu (see Figure 5 on page 5 "Right click drop down menu").
- e. Wait a few seconds and right click the adaptor's name and click **Connect** from the drop down menu.
- f. Change the Admin User ID field to the new User ID and password added or modified in step "c", and click [OKAY] button to finish (see Figure 6 on page 5 "Adaptor Registration").

Figure 8: Web Interface, User tab

🖉 FrontDoor - Windows Internet Explorer 🛛 🗌	. 🗆 🔀
🕙 🕤 🔻 🙋 https://1 🔜 😵 😣 🗲 🗙 🧖 Live Search	-9
🖕 Favorites 🛛 🎉 FrontDoor 👘 🔹 🗟 🔹 📾 🝷 Page	• * *
Heer Admin	~
Email Setting Setting	
Encryption Key Down Load Download	

Figure 9: File Download window

Do you	want to save this file?
-	Name: 0008AA0601F0 Type: Unknown File Type, 16 bytes From: 192.168.0.30
	Save Cancel
	While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not

Figure 10: Encryption Key dialog

Encryption Key File Setting		×
Adaptor MAC address	00:0B:AA:06:01:F0	
	CANCEL	SAVE

Figure 11: User Registration window

Front_Door - Windows Internet	Explorer		
🐔 https://192.168.0.30/cgi-bin/RegisterUser.cgi		😵 Certificate Error	
User Registration			^
User 1 ID	user		
Password	•••••		
User 2 ID			
Less 2			
User 5 ID Password			
User 4 ID			
Password			
User 5 ID			
Password			
User 6 ID			
Password			
User / ID Password			
User 8 ID			
Password			
User 9 ID			
Password			
CA	NCEL	SAVE	
			~
Done 😽 Internet		🐴 🔹 🔍 100%	•

7 OPTIONAL FEATURES (continued)

Optional Feature: E-mail. Select an adaptor from the Adaptor display list and do the following:

- a. Click the <u>I SETTINGS</u> button and accept any security warnings.
- b. In the Admin tab, next to **E-mail** click the [Setting] button (see Figure 2 on page 4, "Web Interface, Admin tab").
- c. When the E-mail settings window opens (see Figure 12 to the right, Admin tab, E-mail window"), enter:
 - Adaptor E-mail Address (sender address)
 - **SMTP Server** (Fully Qualified Domain Name, see Step 2 "e" on page 4 for DNS servers)
 - E-mail login ID and SMTP Password
 - **SMTP Server Port** (*default 25 when SSL is OFF; or use 465 when SSL is ON*).
 - **SSL** (turn ON only when SMTP authenticates using SSL, turn OFF when SMTP uses STARTTLS or is unencrypted).
- d. Click [SAVE] and then click the User tab.
- e. Press the [Setting] button next to E-mail Setting
- f. When the E-mail Setting window opens (see Figure 13 to the right "E-mail Setting window"), enter:
 - E-mail Address (the destination address)
 - Next to Door Call click the radial button for ON
 - The other two events are optional
- g. Click [SAVE] and then close the browser.

Optional Feature: Auto Recording. Click the

I to the right "PC Settings window") and do the following:

- a. Click the radial button for Video next to Picture Recording Mode
- b. Change the Max Recording Space field to 10GB (or less)
- c. Click the radial button for ON next to Auto Recording (Optional) Click the radial button for ON next to Audio Recording to record audio during a manual recording (Optional) Click the check box next to Maximize Application, Balloon Notification, Sensor Detection Tone and Call Tone
- d. Click [SAVE] to save settings and close the window.

NOTE: Press the [?] button for help and operating instructions.

Figure 12: Admin tab, Email window

https://192.168.0.30/cg-bin/SetHal-	ф.	Certificate Error
Email		
Adaptor Email Address	front_door@yourname.com	
SMTP Server	smtp.yourname.com	
(Email) login ID	front_door	
SMTP Password	•••••	
SMTP Server Port	465	
SSL	• ON C	OFF
		CAVE
	CANCEL	SAVE

Figure 13: User tab, Email Setting window

•	, U		
Front_Door - Windows	s Internet Explorer	· 📃 🛙	
🙆 https://192.168.0.30/cgi-bin/SetV	1ailTriger.cgi	😵 Certificate Error	
Email Setting			^
Email Address	user@yourname.com	n	
Door Call	• ON	O OFF	
Sensor Detection	O ON	• OFF	
System Start	O ON	● OFF	
	CANCEL	SAVE	
			~
ione	😜 Internet	- 🐴 🔹 🔍 100%	•

Figure 14: PC Settings window

Language Selection	n	English	*
	Ma Ma	ximize Application	
Event Notification	🗹 Bal	loon Notification	
	Ser Ser	nsor Detection Tone	
	Ca	II Tone	
Picture Recording Mode	O Snapshot	● Video	
Max. Recording Space	01.00 GB		
Auto Recording	ON ON	O OFF	
Audio Recording	OON	OFF	

7 OPTIONAL FEATURES (continued)

Figure 15: Sensor Event



Figure 16: Sensor Detection

Front_Door - Wind	ows Internet E	xplorer			7 [
192, 168, 0, 30	g-bm/SetGpio.cg	(Certificate Error	1
Sensor IN / Opt	ion OUT				
Input latch	0	30 sec.	۲	Continuous	
Sensor IN 1	0	N.C.	۲	N.O.	
Sensor IN 2	0	N.C.	۲	N.O.	
Sensor IN 3	0	N.C.	۲	N.O.	
Sensor IN 4	0	N.C.	۲	N.O.	
Option OUT					
Ou	tput Duration	3	seconds		
		CAL		SAVE	
			ICLL	GRVL	
		🐻 🌍 Interne	et	🖓 🔹 🍕 100%	. •

The four programmable Sensor inputs of a JKW-IP adaptor can receive a trigger from an external device such as an alarm. An admin can enable this feature in the web interface and change the Input latch notification duration from Continuous to 30 seconds.

- If enabled the Sensor Detection Tone will sound. To enable this feature click the Server button and in the Preference tab put a check box next to Sensor Detection Tone.
- The status icon for the input will turn blue.
- The Message display will read Adaptor Name EXTERNAL INPUT No.
- An e-mail will be sent, if this feature is on (see page 7 E-mail).
- Investigate the cause of the sensor notification (there may be an external alarm system), and then highlight the adaptor in the display and press the Off button to end the sensor notification.

8 BASIC OPERATIONS

Figure 17: PC Settings, Volume tab Volume Preferences Microphone Volume Speaker Volume **Tone Volume** CANCEL SAVE

Press the call button on the JK door station. When you see the video of the guest, the following controls are available:

- To answer the call click the [Talk] button momentarily and you can speak hands free. The JK master station and any other computers will go back to standby, indicating the call has been answered.
- Display Adjustments The Zoom/Wide, Adjust, and Pan and Tilt arrows can change the view as desired.
- Door release Release the door by clicking the -0 (Key) button. If the key turns -0, it worked.

NOTE: If door release does not work, follow Steps a-e on page 6 to download and match a new Encryption Key.

- Off - When the conversation is complete, click [OFF] to return the door station back to Standby so it is ready for the next guest.

Press the Setting button to adjust the volumes for the Chime Tone, the Microphone for your PC, and the Speakers for your PC.

Press the [?] button for help and for additional operating instructions.

FAX (425) 455-0071

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http://www.aiphone.com/JKWIP Reg.htm