

CROW RUNNER LINK INSTALLATION AND PROGRAMMING MANUAL



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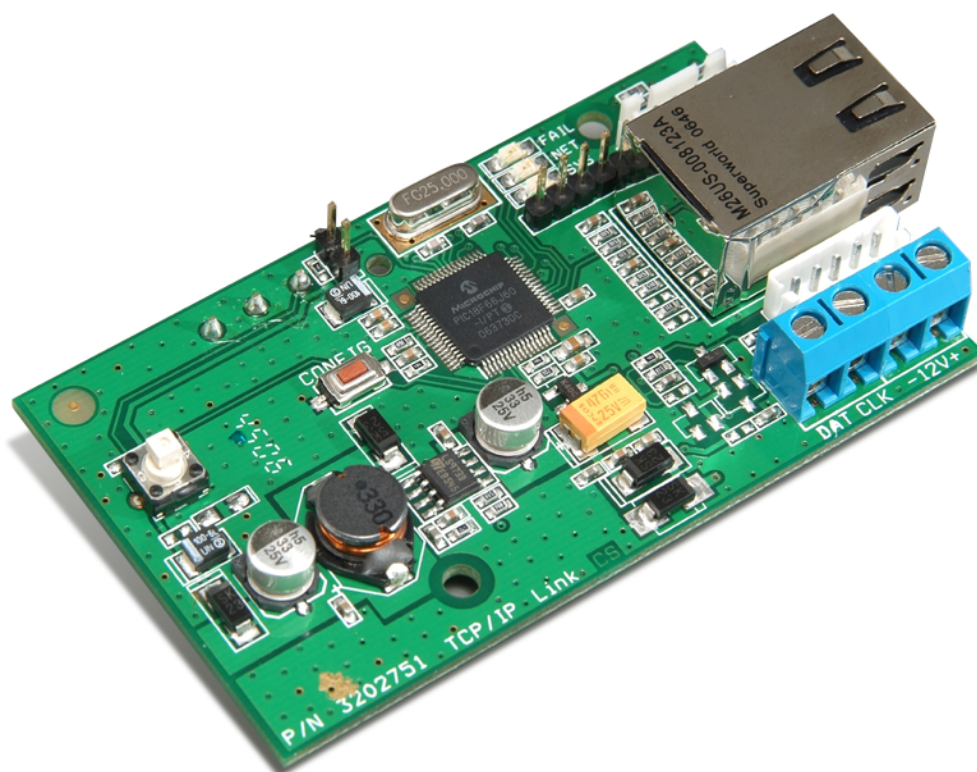
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ELECTRONIC ENGINEERING LTD.

Runner Link *Gateway*

ADD-ON INTERNET ALARM COMMUNICATION BOARD (TCP/IP)



Installation and Programming Guide

P/N 7111751

March 2007

Crow Limited Warranty

(Crow) warrants this product to be free from defects in materials and workmanship under normal use and service for a period of one year from the last day of the week and year whose numbers are printed on the printed circuit board inside his product.

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Print Version 016

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Introduction

The **RUNNER LINK Gateway** is a small external hardware addition to Crow's Runner Control Panel Series. It is connected to the Alarm System using a special cable supplied and also connected to the Internet or LAN using the standard RJ-45 connector.

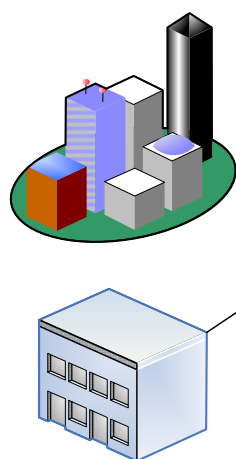
Today the majority of businesses and domestic households that have an intruder alarm installed already have an open connection to the Internet. The **RUNNER LINK Gateway** connects itself to the LAN therefore establishing a very low cost communication link with any Monitoring Service of their choice.

When connected to a central monitoring station over the Internet the alarm system has the ability to ensure professional protection 24/7. This is because a watchdog timer ensures that the communication link from the control panel to the central monitoring station is always intact and if there is a break in communication an alarm is triggered immediately to cause an alarm.

When you are connected to a Monitoring Service you are able to get them to send commands and send you a status report of your Alarm System whenever you ask. For example, arm or disarm your Alarm System using the Internet connection.

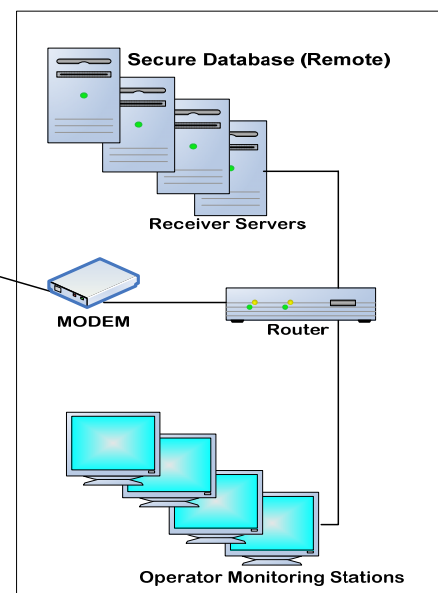
System Overview

Customer Premises



Internet

Monitoring Service Provider



Benefits

- ❑ Connecting intruder alarm equipment to the Internet
- ❑ Supporting standard alarm protocols (SIA/CID)
- ❑ Dedicated servers for secure polling
- ❑ Real-time remote access to the system for the alarm owner (virtual keypad)
- ❑ Event log on demand
- ❑ Add-on Internet gateway from Runner Series control panels
- ❑ Continuous line supervision
- ❑ Alarm signals transmitted via the Internet to remote PCs or Central station
- ❑ Uploading and downloading software for showing status and sending commands over the Internet
- ❑ Back-up line using GPRS (option)
- ❑ Distribution of messages triggered by alarms to cellular and emails

How it Works

The events from your alarm system are automatically transferred via the **RUNNER LINK Gateway** to a remote dedicated server located on the secure and tamper proof premises of your Monitoring Service Provider.

When an alarm is triggered on your premises the signal is immediately received on one of the many monitoring stations. Depending on how you have configured the system the alarm can propagate the alarm via SMS messaging and voice messages to multiple recipients. At the same time the operator can intervene and escalate the alarm if required.

The **RUNNER LINK Gateway** is a true Plug & Play device and only has to be connected to the bus of an existing alarm controller.

Customers Premises

Any Crow **Runner** Alarm System version 9.03 or later is able to install the **RUNNER LINK Gateway**. The installation is relatively minor as only two cables are connected to the Runner Link box.

Bus cable

The bus cable is a special cable supplied with the Runner Link and connects the unit to the controller.

Internet Connection Cable

Most domestic households and businesses today have an open connection to the Internet. To take advantage of this fact there is an RJ-45 plug on the Runner Link box that plugs directly into a router that is already connected to the Internet.

Monitoring Service Provider

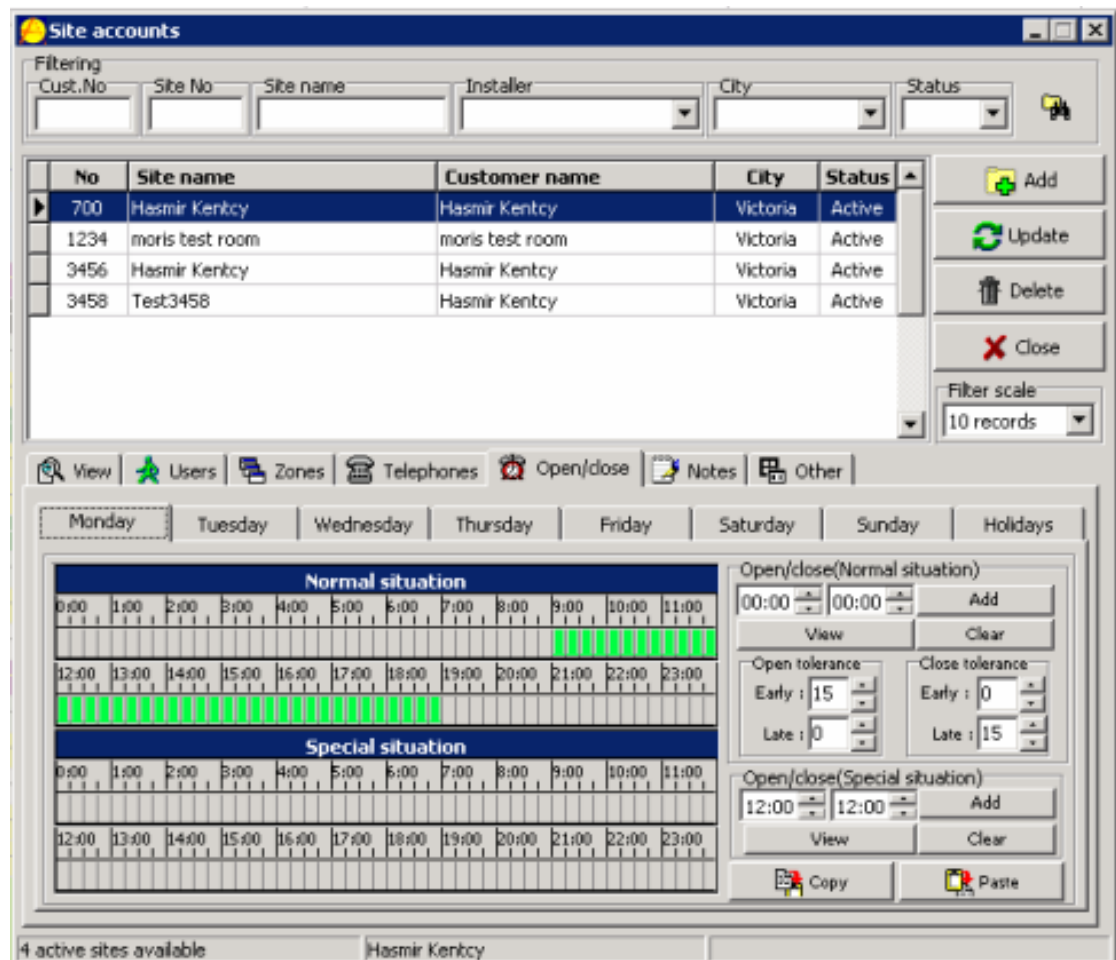
The Monitoring Service Provider is located in a tamper proof environment and uses multiple redundant secure receiver servers.

Redundancy means that the servers take over from one another if one fails. When the repaired server is put back online it automatically updates itself with any new information from the working servers until it is synchronized.

Monitoring Software Tools

It is recommended that you choose a service provider that uses modern sophisticated software tools and able to monitor your alarm system events.

An example of one of the basic A-Traq screens



Shipping Contents

Hardware

- ❑ **RUNNER LINK** Gateway module
- ❑ RJ-45 Ethernet cross Cable
- ❑ Fast Bus connection cable
- ❑ Software Installation CD

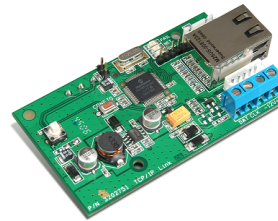
Bus cable



RJ-45 Ethernet (LAN) cable



Runner Link board



Installation CD



Software

There are two software installation files on the CD:

IP Link.exe

This file contains two programs and when installed places two icons on your **Desktop**.

- ❑ **IP Configuration** (Runner Link) – This program is used by the installer to setup the unit in the field
- ❑ **Upload Download** (Virtual Keypad) – enables someone to use it as a remote Internet keypad to access your Alarm System

ReveiverServer.exe

This is a service that must be installed on the **Receiver Servers** at the premises of the Monitor Service Provider.

For details see **Installing the Receiver Server Configuration Program** on page 22.

Installing the Unit

Installing the Software

Installing the Installer Configuration Software

Installing the Runner Link™ On your PC

This software program enables the installer to configure the **Runner Link** unit in the field.

1. Place the installation CD in your CD reader.
2. Copy the IP Link.exe file onto your **PC** and then double click it.
3. Ensure that you now have both the  (**Pconfig.exe**) and the  (**Upload Download.exe**) icons displayed on your Desktop.

Installing the Hardware

The Runner Link unit is shipped inside a protective plastic box and is connected with two cables.

- ❑ The Bus cable connects unit to the Runner alarm system
- ❑ The RJ-45 cable connects the unit to the LAN or WAN

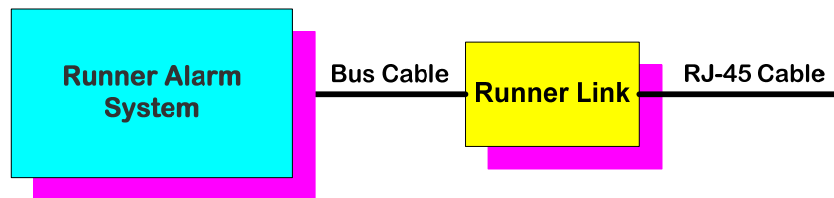


Figure 1 Cable Connection Diagram

Connecting Cables

1. Connect one end of the bus cable to the bus on the control panel main board.

You can also use the bus terminal block to connect the bus using discrete wires, see Figure 4 on page 7.

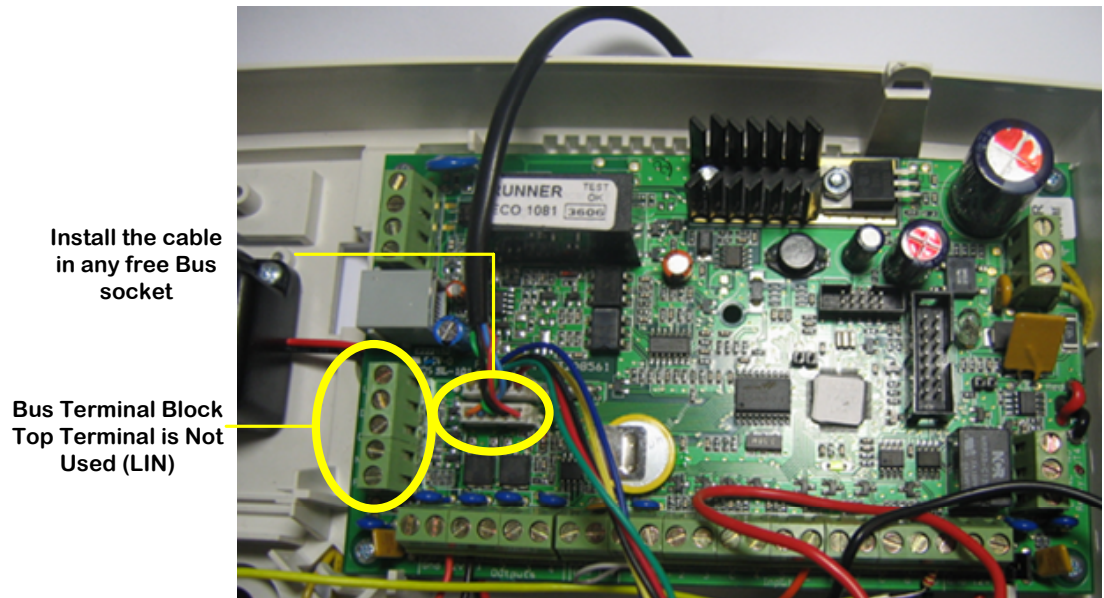


Figure 2 Main Board Bus Connection

2. Connect the RJ-45 LAN cable to the Runner Link board as shown in Figure 2 and Figure 3.

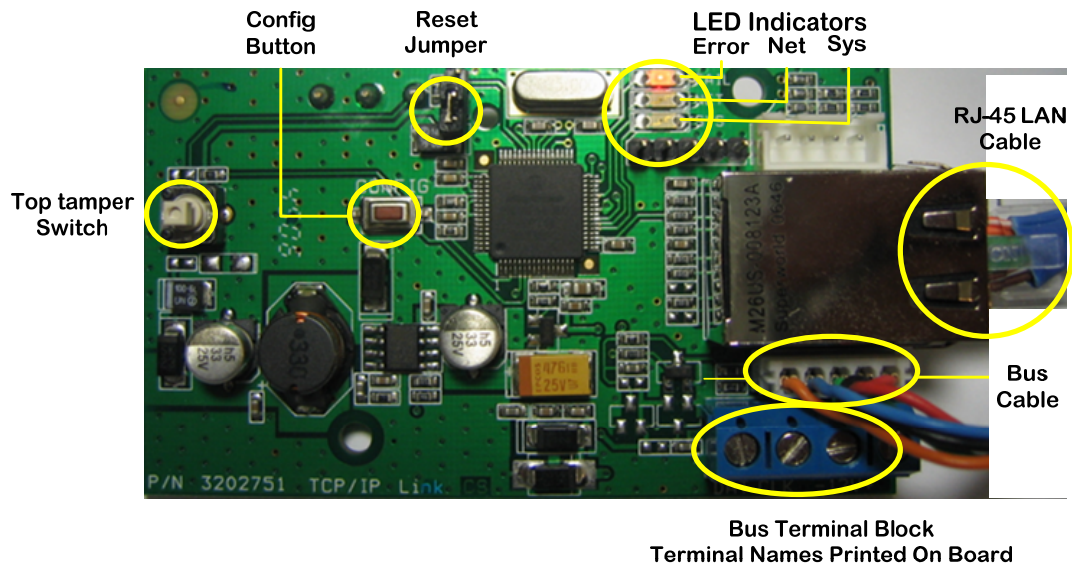


Figure 3 Runner Link Board Connections and Locations

Table 1 LED Description Table

LED	Description
Fail	Solid Red when pressing the Config button or when there is an error.
Net	Solid green when finding the network.
Sys	Blinks green when the bus is active.

3. Connect the other end of the Bus cable onto the board as shown in Figure 3.

Power is supplied to the board via the Bus cable and the red LED is lit.

Using the Bus Terminal Block

You can also connect discrete wires as shown in the figure below. See also Figure 2 and Figure 3.

The **LIN** terminal is NOT used.

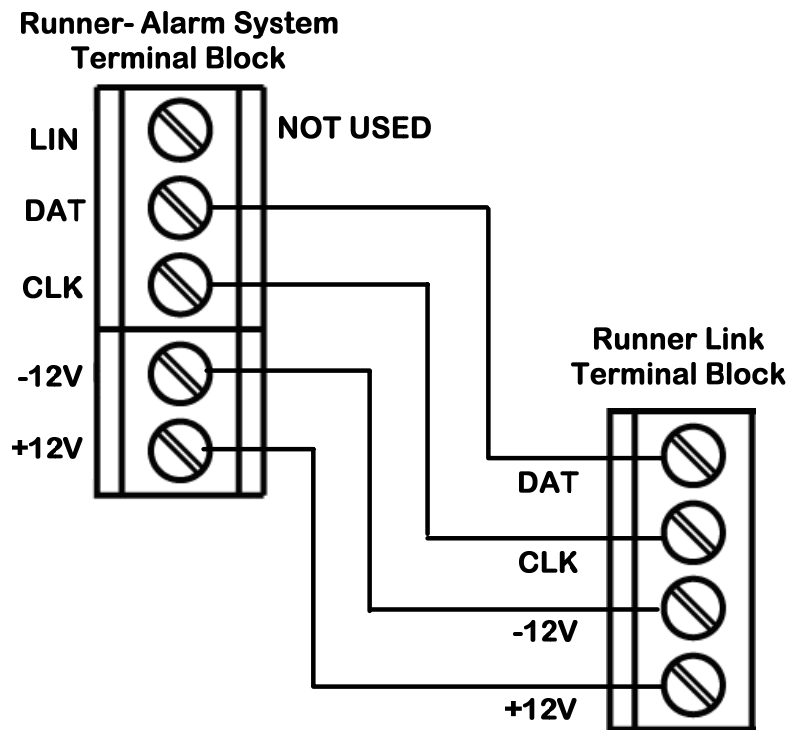


Figure 4 Using the Bus Terminal Block

Configuring the Runner Link

In order to configure the **Runner Link** you must first communicate with it using the initial setup IP of **192.168.0.5** and a Subnet Mask of **255.255.255.0**.

These are the factory defaults.

Changing the PC IP Address to the Initial Setting

To perform the initial communication with the Runner board connect the cables as shown in the diagram below.

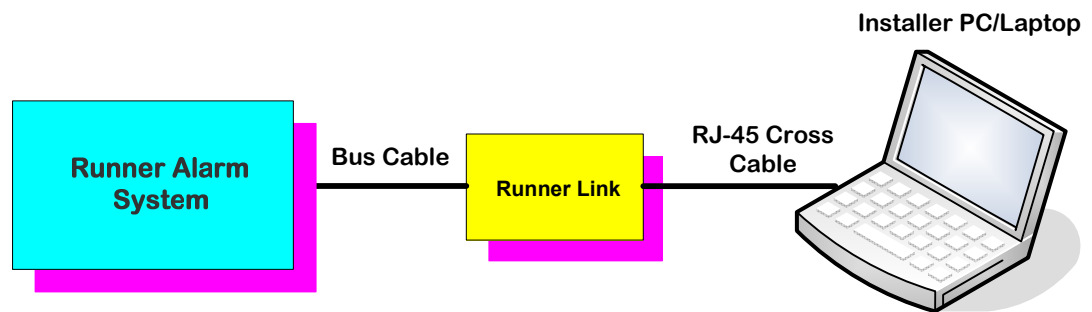
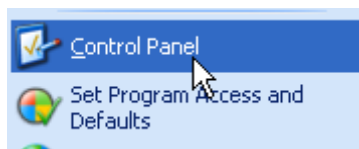


Figure 5 Installer Cable Connections

1. Click the  button

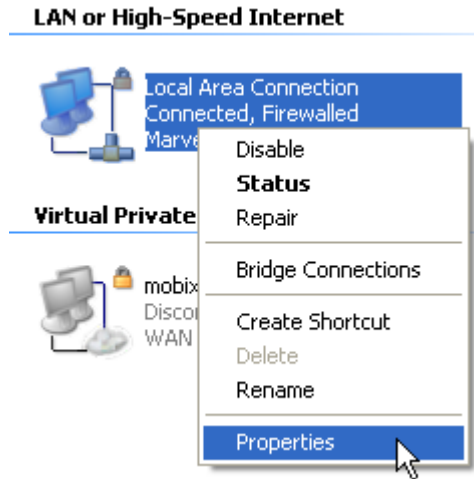


2. Click **Control Panel**.
3. Click the **Network Connections**  icon.

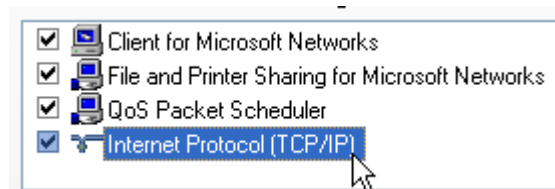
LAN or High-Speed Internet



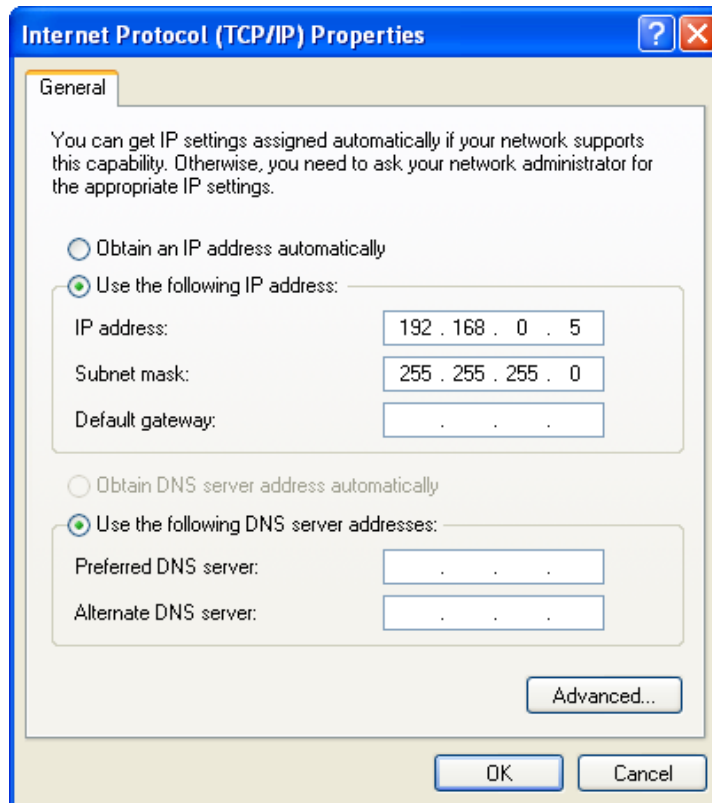
- Right-click the active **Local Area Connection** icon



- Click **Properties**.

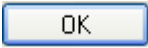


- Double-click **Internet Protocol (TCP/IP)**.



7. Select **Use the following IP address** radio button.
8. Enter an IP address of **192.168.0.5**.
9. On the PC keyboard, press the **[Tab]** key, or click the **Subnet Mask** field (underneath the IP address).

A value of **255.255.255.0** is inserted automatically.

10. Click the  button twice and close the open screens.

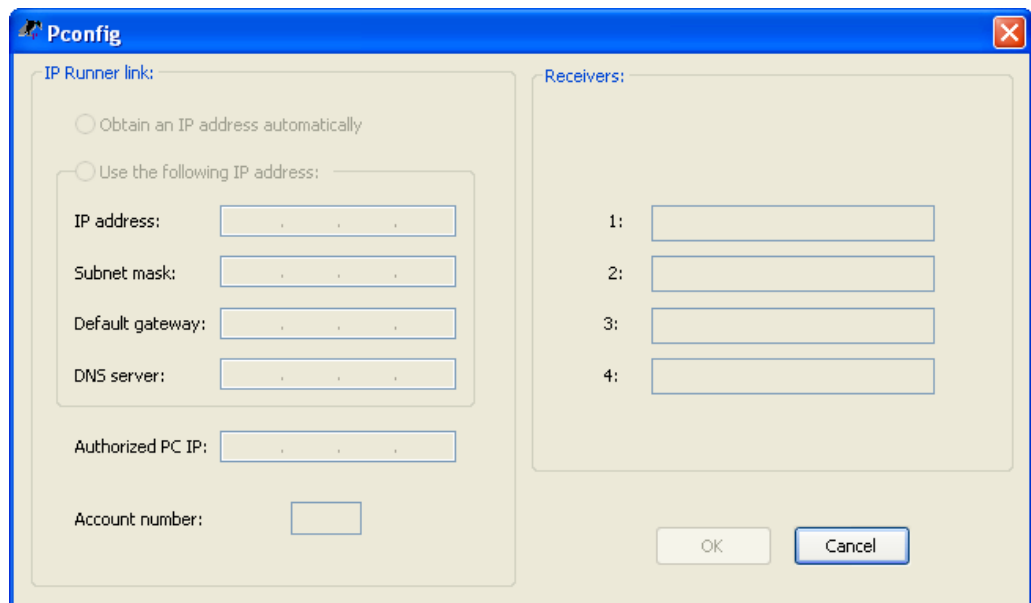
Changing to the Authorized PC IP Address

This section requires that you have already installed the Configuration software. See **Installing the Installer Configuration Software** on page 5.

The **Authorized Address** is the name given to the IP address of your computer that you use for configuring the alarm systems. It is a static address of your choosing and makes maintaining the equipment you have installed much easier.

1. Ensure that the PC you are using to change the IP address has been set to **192.168.0.5** and a Subnet Mask of **255.255.255.0**.

2. Double-click the **Configurator**  icon.



The **Pconfig** screen opens.



NOTE

For security concerns the screen and CONFIG button are disabled after approximately 45 seconds. To continue, close the screen and open the program again.

- On the **Runner Link** board, press the **Config** button for minimum of 3 seconds.

The red **FAIL** LED lights and then after 3 seconds the green **NET** LED lights as well and the green **SYSTEM** LED starts to blink. There is an audible beep from your PC (acknowledgment) and the **FAIL** and **NET** LEDs turn off. The screen then is populated with the default IP addresses from the board.

- Change the **Authorized PC IP** address to the normal working IP of your PC.



NOTE

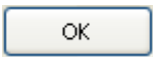
This IP address MUST be used for maintaining the alarm system.

- In the **IP Runner link** pane, select the radio button required for the network the **Runner Link** is connected to.

If a static address is needed all the required information must be entered manually.

- In the **Receiver** pane, change the IP addresses of the **Receiver** servers to those of the Monitor Service Provider.
- Enter the correct account number given by the Service Provider so that the unit can be found rapidly when the operator needs to contact it.

The Monitor Service Provider is able to contact the unit by using the **Account number**, which is the actual address of the unit.

- Click the  button.

The screen closes and only the green **SYS** LED continues to blink. The other two LEDs are **OFF**.

- Set the IP of your laptop back to your normal working IP.
- Disconnect the cross cable from the Runner Link and connect the Runner Link to the LAN or WAN.

Setting the Board to the Factory Default IP Address

1. Using Figure 3 on page 6 as a guide, short the **Reset** jumper pins using the jumper installed on one of the pins.
2. Press the **CONFIG** button.

The board is now reset to the factory defaults.



NOTE

You can also reset the Runner Link by turning on power to the board when the pins are shorted using the jumper. You can then remove the jumper and plug it onto one of the pins for safe keeping.

Upload/Download Program (Virtual Keypad)

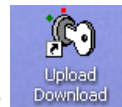
The program enables the Monitoring Service Provider to control your Alarm System in real time over the Internet.

Using the Virtual Keypad



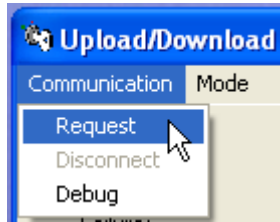
NOTE

This program can only be used after configuring the Runner Link.



1. From the desktop, click the icon.

- Click the **Communication** menu.



- Click **Request**.

 A screenshot of a dialog box titled 'Request connect'. It is divided into two main sections. The left section, titled 'Direct to unit:', contains a 'Unit:' label followed by a text input field with four dots (· · · ·) and a 'Search' button below it. The right section, titled 'Search on reseivers:', contains an 'Account:' label followed by a text input field, and four 'Reseiver' labels (Reseiver1 through Reseiver4) each followed by a text input field containing '0 . 0 . 0 . 0'. Each 'Reseiver' input field has a 'Search' button below it. At the bottom center of the dialog is a 'Cancel' button.

There are two ways to communicate with the unit (See Below)

Initiating Communication with the Unit

Using the Unit IP Address

1. In the **Direct to unit** pane, enter the unit IP.

The 'Request connect' dialog box is shown. It has two main panes: 'Direct to unit' and 'Search on reseivers'. In the 'Direct to unit' pane, the 'Unit' field contains the IP address '192 . 168 . 0 . 130'. In the 'Search on reseivers' pane, there is an 'Account' field and four 'Reseiver' fields (Reseiver1, Reseiver2, Reseiver3, Reseiver4), each with a search button. A 'Cancel' button is located at the bottom center.

2. Click the **Search** button.
3. **ONLY** if the connection to the Alarm System is successful is the following screen displayed.

The 'Connected to 192.168.0.95 : 1048' window is shown. It displays the 'Communication Mode' and 'Command mode' sections. The 'Failure' section includes POWER, BATTERY, FUSE, and LINE. The 'Status' section includes READY, TROUBLE, STAY, BYPASS, CONTROL, PROGRAM, and AUX. The 'Zones' section shows 16 zones, all with green status indicators. The 'Output' section shows 8 outputs, all with green status indicators. A legend at the bottom identifies the status indicators: Alarm (red), Tamper (yellow), Open (green), Close (dark green), Bypass (blue with X), and Unknown (grey).

You are now connected to the Alarm System.

Using the Account Number and Receiver Server IP Address

1. In the **Search for Receivers** pane, enter the account number and at least one receiver IP address.

2. Click the **Search** button.
3. **ONLY** if the connection to the Alarm System is successful is the following screen displayed.

You are now connected to the Alarm System.

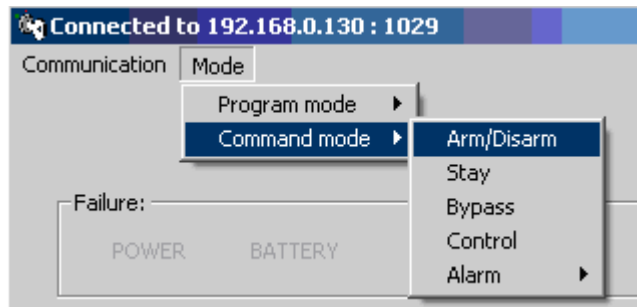
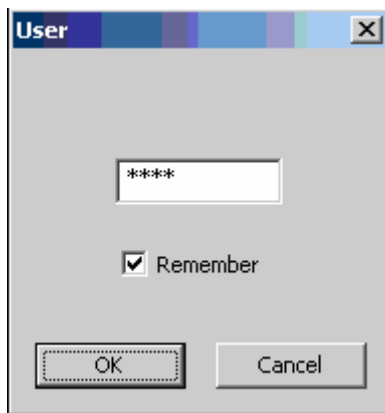
Example 1 - Taking Control of the Unit (Alarm/Disarm)



NOTE

Using this program you can perform the same functions as if you were using the keypad (local) connected to the Alarm System. Below you will find examples on how this is achieved...

1. Click the **Mode menu**, **Command mode** and then click **Arm/Disarm**.

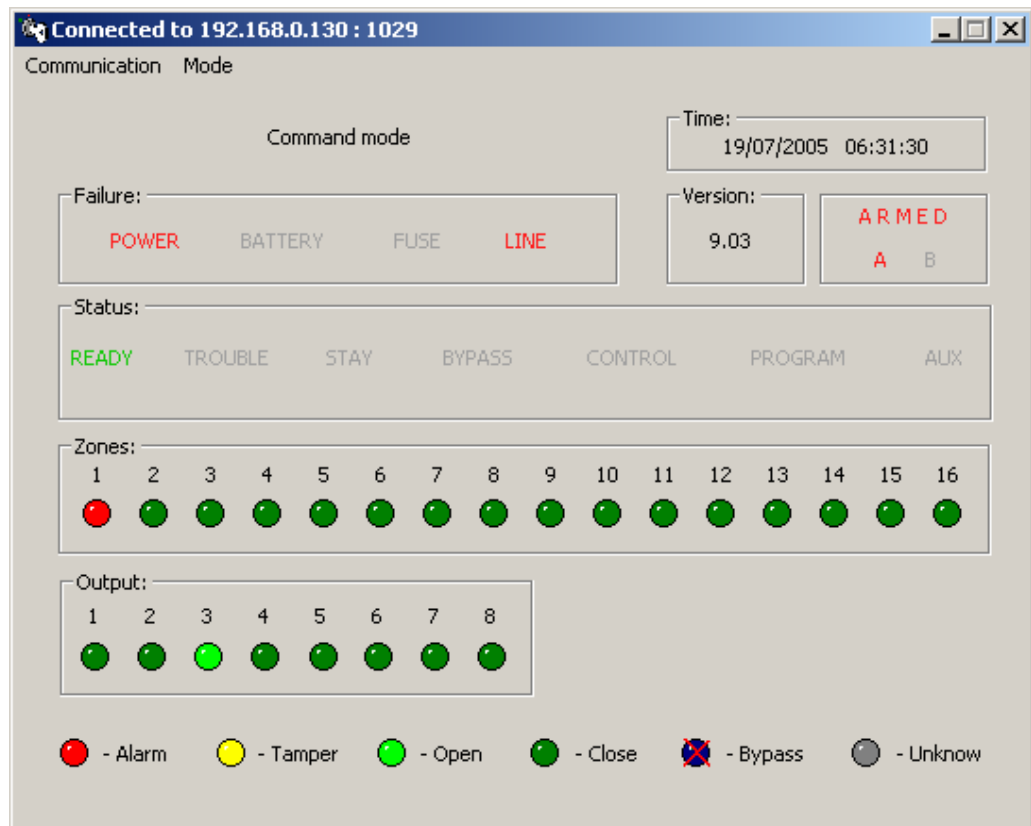


The **User** password window opens

2. Enter the password.

The default **User** password is 1234.

This password allows limited access only. If you need complete access, see installer password, **Example 2 - Changing the Password (Installer Mode)** on page 19.

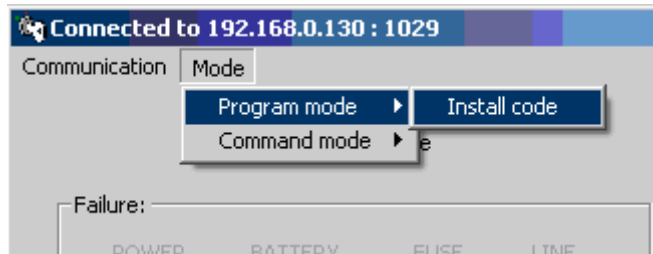
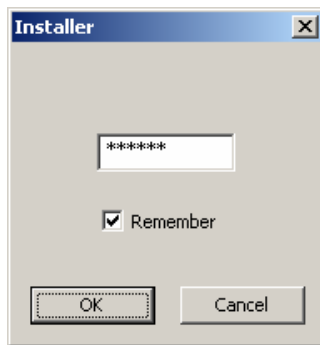


For information on how to configure the unit, see the **Upload/Download** manual via PSTN.

Example 2 - Changing the Password (Installer Mode)

This section explains how to change the password.

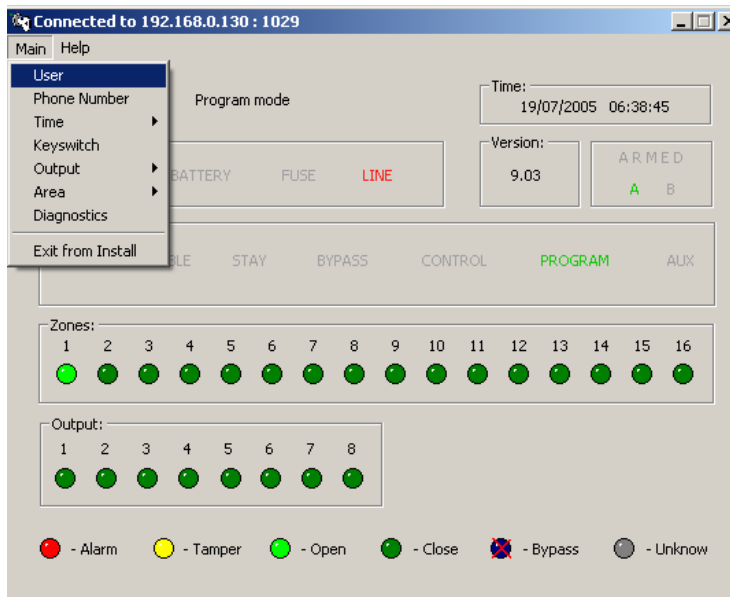
1. Click the **Mode** menu, **Program mode** and then click **Install code**.



The **Installer** password window opens

2. Enter the installer password

The default installer password is **000000** (six zeros) and gives full access.



The User screen is shown above with the **Main** menu open.

3. Click the **Main** Menu and click **Exit from Install**.

4. Click **Users**.

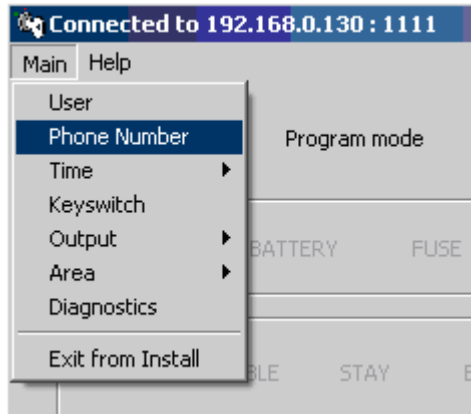
5. In the **Code** field (password), enter a new password.

6. Click the  button.

Example 3 - Changing the Phone Number

This section explains how to change the phone number.

1. Click the **Main** menu.



2. Click **Phone Number**.

The screenshot shows the 'Phone number' configuration window. It has a title bar with 'Phone number' and a multi-colored gradient. The window contains the following elements:

- Phone:** A section with a dropdown menu showing '1' and a text input field containing '55834567'.
- Format:** A dropdown menu showing 'Domestic Dial'.
- Maximum dial retries:** A text input field containing '3'.
- Options:** A tabbed interface with tabs for 'Options', 'Reporting "A"', 'Reporting "B"', 'Reporting "C"', and 'Reporting "D"'. The 'Options' tab is active, showing a list of checkboxes:
 - ☐ Stop Dialling if Kissed Off
 - ☒ Monitor Call Progress
 - ☐ Blind Dial
 - ☐ Use Group Numbers for Contact ID Reporting
 - ☒ Auto Kiss-off for Voice/Domestic Reporting
 - ☐ Use the Dial Pre-fix Number
 - ☐ Used as the Call-back Number

Installing the Receiver Server Configuration Program

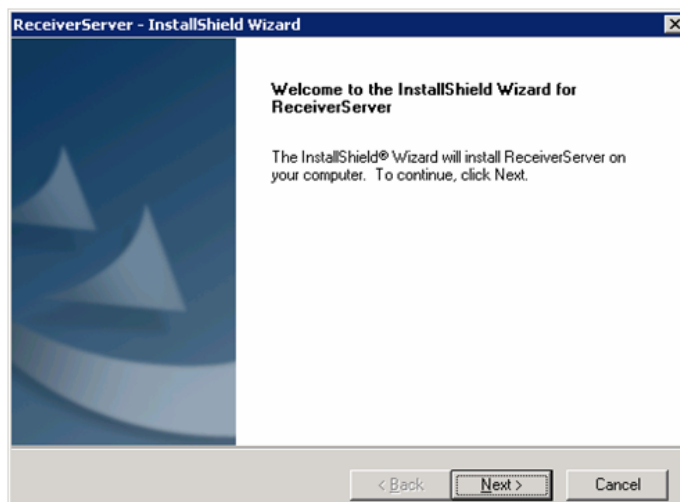


NOTES

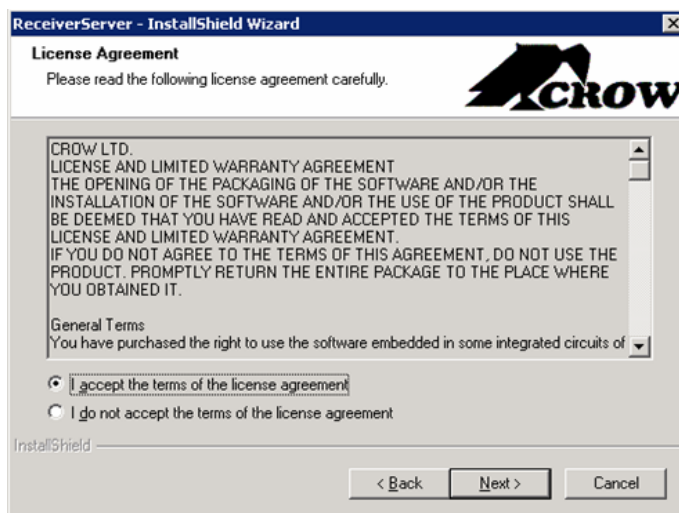
The Receiver servers are installed on the premises of the Monitor Service Provider.

This program must be installed once on each of the servers in order to maintain communication with the units in the field. This is the actual service and must run continuously whenever the server is powered on

1. On the installation CD, double-click the **ReceiverServer.exe** file.



2. Click the  button.

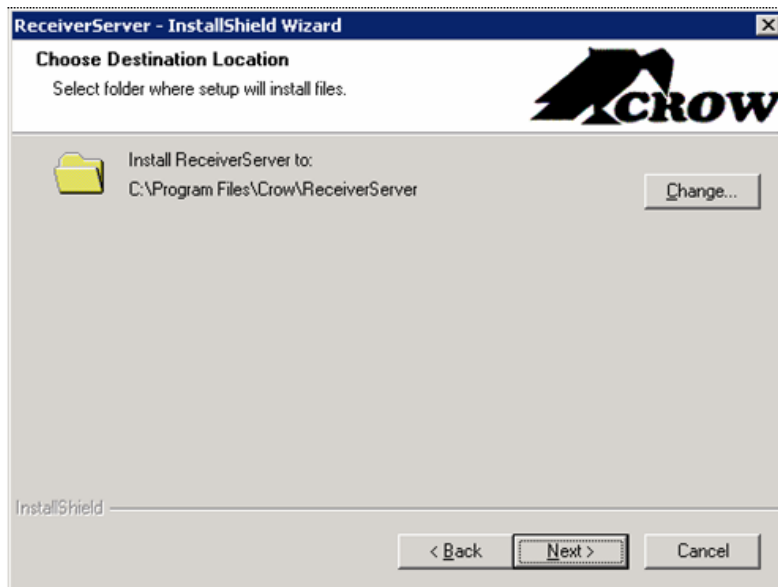


3. Select the **"I accept" the terms of the license agreement** radio button.
4. Click the  button.



The screenshot shows the 'ReceiverServer - InstallShield Wizard' window. The title bar includes a close button. The main area is titled 'Customer Information' with the instruction 'Please enter your information.' and the Crow logo. Below this, it says 'Please enter your name and the name of the company for which you work.' There are two text input fields: 'User Name:' with 'Crow' entered, and 'Company Name:' with 'Crow' entered. At the bottom, there is an 'InstallShield' label and three buttons: '< Back', 'Next >', and 'Cancel'.

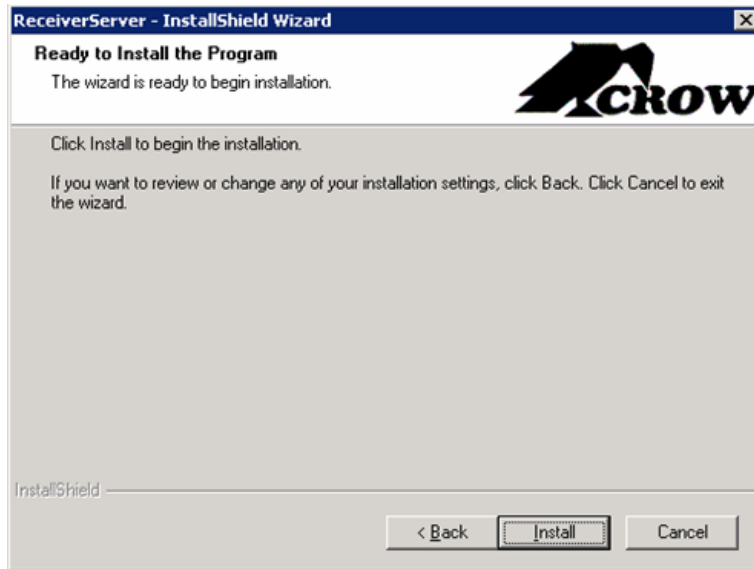
5. Enter a user name and the name of the company.
6. Click the  button.



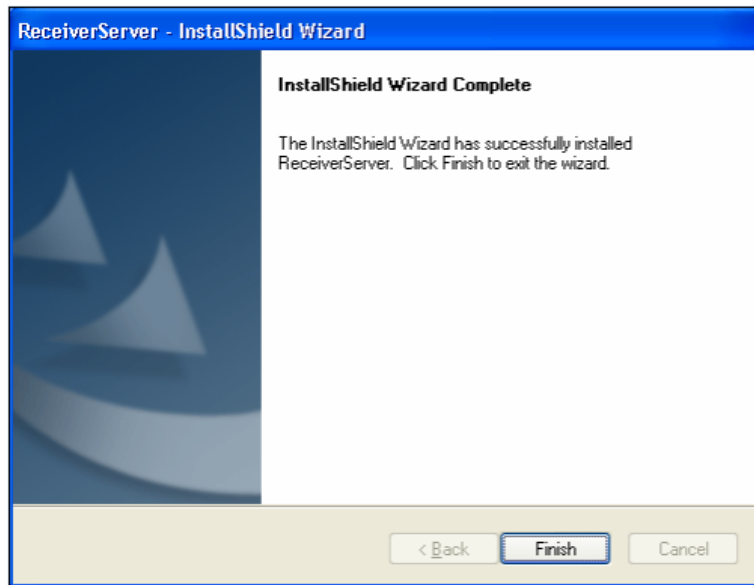
The screenshot shows the 'ReceiverServer - InstallShield Wizard' window. The title bar includes a close button. The main area is titled 'Choose Destination Location' with the instruction 'Select folder where setup will install files.' and the Crow logo. Below this, it says 'Install ReceiverServer to:' followed by a folder icon and the path 'C:\Program Files\Crow\ReceiverServer'. There is a 'Change...' button to the right of the path. At the bottom, there is an 'InstallShield' label and three buttons: '< Back', 'Next >', and 'Cancel'.

7. If you want to change the default installation folder, click the  button and select another folder.

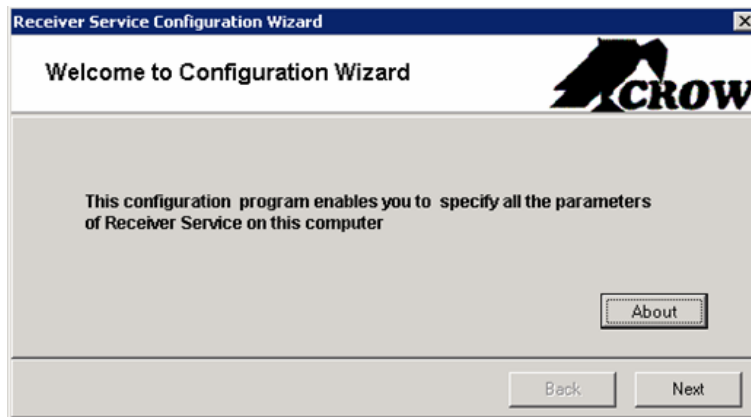
8. Click the  button.

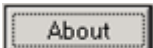


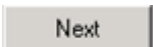
9. Click the  to install the program.

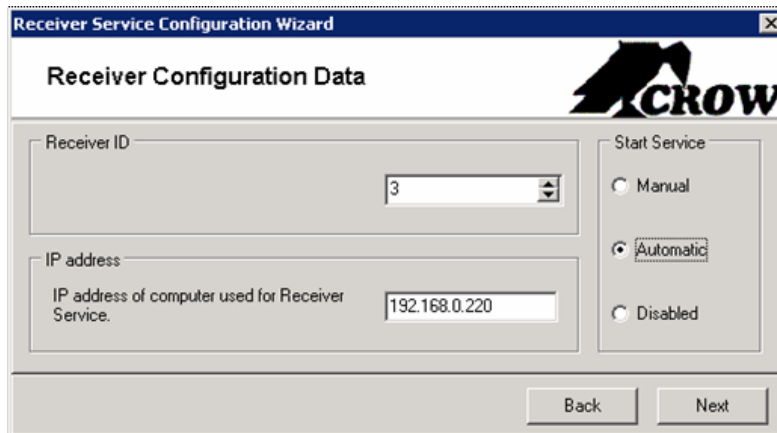


10. Click the  button to exit the wizard.



11. Click the  button to get a brief description on what this program does.

12. Click the  button.



13. Enter the Receiver Server IP address and the ID number.

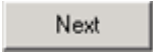
Give the ID numbers in the same sequence as the IP addresses so that it is easier to remember them.

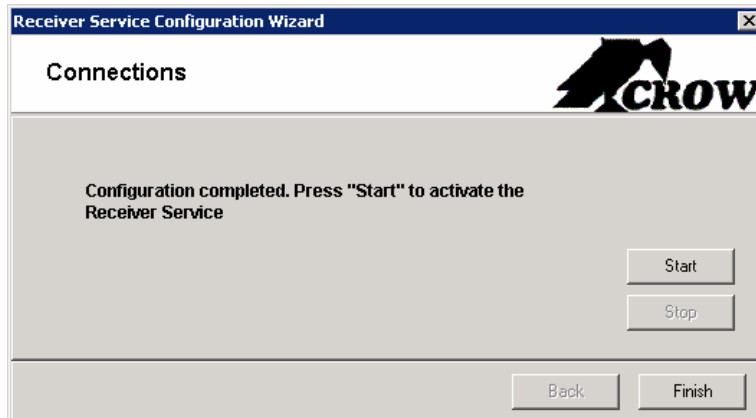
14. In the Start Service pane, select either **Manual**, **Automatic** or **Disable**.

Manual - requires that you start the service manually.

Automatic - the service is started automatically when the program opens.

Disable - puts the server offline so that it cannot be accessed.

15. Click the  button.



16. Click the  button to start the service.

17. Click the  button to stop the service.

18. If you have stopped the server, you can click the  button to close the window and the program.

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