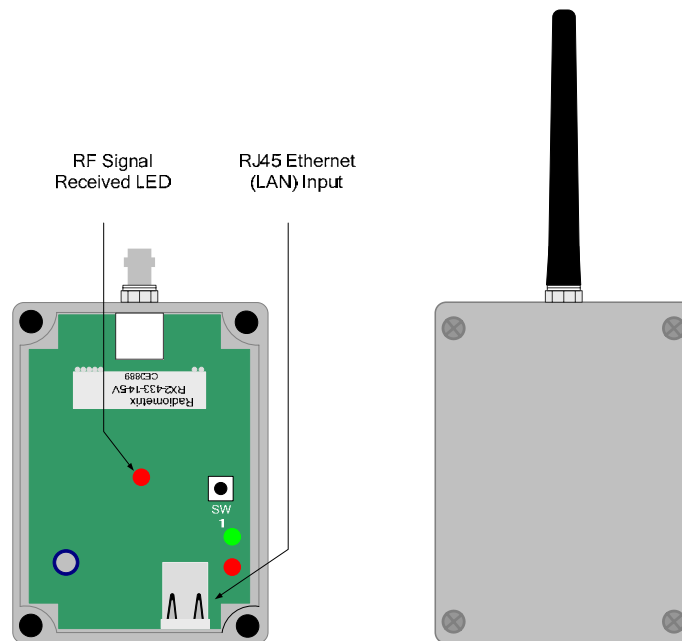


ARFX5 IP16 TCP/IP RF Receiver

The Guardian **ARFX5 IP16** External TCP/IP RF Receiver is a standalone RF Receiver Unit that can receive Staff Attack/Duress Call signals from a Guardian STC* Personal Activation Device and transmit the Call Data directly to a variety of devices, including computers and Guardian systems, via a Local Area Network connection.

The RF range can be affected by many factors including the weather and local conditions (e.g. location of buildings, large metal objects, cars, vans, chain link fences etc) and it is strongly recommended that a site survey is carried out to ascertain the correct number and locations of ARFX5IP16 units required.



The ARFX5IP16 has one RJ45 Ethernet (LAN) connection input located on the bottom of the unit. The unit derives power from the LAN via a Power Over Ethernet (POE) IEEE 802.3af Switch or Router.

Configuration and set up of the ARFX5IP16 is done through the embedded Web Server, using an Internet Browser Application (see page 2).

LOADING FACTORY DEFAULTS:

To load the factory default settings, press and hold SW1 (Button on p.c.b.) and Power Up the unit.

Keep the button held down until only the red led is flashing.

The default LAN settings are IP **192.168.0.192** subnet mask **255.255.255.0**.

Note: DHCP is not enabled when the unit is powered up in this way (**for this session ONLY**) to allow device discovery (using Intersniff). However, DHCP is enabled on subsequent power cycles **unless disabled** by the user via the embedded web server.

DC Input supply: - 9-15VDC Power Over Ethernet (Max Current Draw 0.5A)

Antenna: - 50 Ohm BNC 433MHz

Red Test LED: - Flashes once when valid RF signal is received. (does not latch)

Distance between: - Always site test before deciding on units distance apart inside. Never locate unit underground.

Site Survey: Always carry out a site survey with an STC6 IR/RF Personal Activation Device before committing to the number and location of ARFX5IP16 RF Receiver Units. There is a red LED fitted to the p.c.b of the ARFX5IP16 which flashes once when the radio code is received. This will occur whether the unit is connected to a 12v battery or the Guardian system network.

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Configuring the ARFX5IP16 for Fixed IP Address

1. Connect the ARFX5IP16 to the POE LAN via the RJ45 connector.
2. Set your laptop/pc to the fixed IP address **IP 192.168.0.100**, with a Subnet mask of **255.255.255.0**
3. Connect from the laptop/pc to the ARFX5IP16 on the RJ45 Jack connector using a **Cross-Over** cable.
4. Wait until the ARFX5IP16 is powered up and only the Red LED is flashing.
5. Using your browser, connect to IP Address **192.168.0.192**. You will see the ARFX5IP16 web interface as shown below left.

The screenshot shows the 'System Status' page of the Guardian Radio-IP web interface. It includes a navigation bar with 'Home' and 'Logout' links, and a menu with 'Status', 'Activity Monitor', 'Datalog', and 'Setup'. The main content area is divided into 'System Status' and 'Additional Info'. The 'System Status' section displays firmware and serial numbers, a summary of current events and network activity, and a table of system parameters. The 'Additional Info' section provides links to 'Activity Monitor', 'Datalog', and 'Setup'.

Parameter	Value
Current Event	128: Reset
Current User	000
Unit IP	10.0.0.114
Unit Address ID	0
Unit Channel ID	1
Hold Off Time	0 secs
Transmitting Broadcasts	YES
Receiving Broadcasts	YES
Broadcast Port	6345
Control Channel Lower	0
Control Channel Upper	0
Only send if current event not detected	NO
Allow Remote Accept	NO
Remote Accept with Reset	NO
Allow Auto Reset	NO
Send Event Every Time Received	NO
Input 1	OFF
Input 2	OFF

The screenshot shows the 'System Settings' page of the Guardian Radio-IP web interface. It includes a navigation bar with 'Home' and 'Logout' links, and a menu with 'Status', 'Activity Monitor', 'Datalog', and 'Setup'. The main content area is divided into 'System Settings' and 'Additional Info'. The 'System Settings' section contains various configuration options for the unit, including channel name, address ID, channel ID, broadcast settings, and password. The 'Additional Info' section provides instructions on how to use these settings.

Field	Value
Channel Name	RadiolP
Address ID	1
Channel ID	3
Transmit Broadcasts	<input checked="" type="checkbox"/>
Receive Broadcasts	<input checked="" type="checkbox"/>
Broadcast Port	6345
Setup Password	lismore
Hold Off Time (secs)	0
Control Channel Lower	0
Control Channel Upper	0
Only Apply Event if Not Already Detected	<input type="checkbox"/>
Allow Remote Accepts	<input type="checkbox"/>
Remote Accept Is Reset	<input type="checkbox"/>
Allow Auto Reset	<input type="checkbox"/>
Send Event Every Time Received	<input checked="" type="checkbox"/>

6. Navigate to the Setup Screen (above right), and enter the login details. The default s are: *User = admin Password = lismore*
7. Enter the desired **Address ID** and **Channel ID** for this ARFX5IP16 unit
8. Enable "Send Event Every Time Received" to send each received event from the trigger to the PC Graphics Software.
9. Select the Save button
10. Navigate to the Input Screen (below left) and configure Input 1 * Input 2 to send an Event when either is shorted to 0V. We have selected Tamper for Input 1 and Low Battery for Input 2. [Input 1 always takes precedence over Input 2.]
11. Navigate to the LAN page (below right).

The screenshot shows the 'Inputs' page of the Guardian Radio-IP web interface. It includes a navigation bar with 'Home' and 'Logout' links, and a menu with 'Status', 'Activity Monitor', 'Datalog', and 'Setup'. The main content area is divided into 'Inputs' and 'Additional Info'. The 'Inputs' section displays the current input states and a table for configuring the inputs. The 'Additional Info' section provides instructions on how to use the inputs.

Input	Input Mode	Data	User	Invert?
Input 1	Apply Event	141: Tamper	<input type="checkbox"/>	<input type="checkbox"/>
Input 2	Apply Event	145: Low Battery	<input type="checkbox"/>	<input type="checkbox"/>

The screenshot shows the 'LAN Settings' page of the Guardian Radio-IP web interface. It includes a navigation bar with 'Home' and 'Logout' links, and a menu with 'Status', 'Activity Monitor', 'Datalog', and 'Setup'. The main content area is divided into 'LAN Settings' and 'Additional Info'. The 'LAN Settings' section contains various configuration options for the LAN, including DHCP, IP address, subnet mask, gateway address, and DNS settings. The 'Additional Info' section provides instructions on how to use these settings.

Field	Value
Enable DHCP	<input type="checkbox"/>
IP Address	11.22.33.44
Subnet Mask	255.255.255.0
Gateway Address	10.0.0.1
Primary DNS	10.0.0.2
Secondary DNS	21.224.1.180.122
Netbios Name	

12. Un-tick "Enable DHCP" box as you will be entering a fixed IP address for this unit.
13. Enter the fixed IP address into the IP Address dialog. (The example here uses 11.22.33.44)
14. **Important: Remember, as soon as you select the Save button you will have altered the IP address of this unit and will no longer be able to communicate with it using this laptop/pc unless you change the laptop/pc network settings again to communicate with the new fixed IP address. [NB: Ensure you make a note of the new fixed IP address.]**
15. Select "Save" button to store the settings.