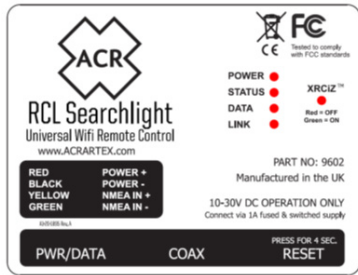


Wi-Fi Module Wiring

Note: The red wire is the positive (+) connection and the black wire is the negative (-) connection.

The Wi-Fi module has an integral Power/Data cable with four wires. The function of each wire is shown on the product label and detailed below.



The Wi-Fi Module has an NMEA0183 input that allows an external GPS to provide position information for display in the ACR Searchlight App. This is particularly useful if the mobile device does not have an internal GPS, such as a Wi-Fi only iPad.

If no external GPS is connected, the App will automatically use the mobile device's internal GPS and if this is not available, no position will be displayed in the ACR Searchlight App.

5. POWERING THE WI-FI MODULE //

- Provide power connections to the unit. Power is connected to the four core PWR/DATA cable on the Red and Black wires. The red wire is the positive (+) connection. The black wire is the negative (-) connection.
- Connect the stripped wires to the nearest source of primary 12V or 24V DC power. Ensure that the supply is connected via a 1 A fuse or suitable circuit breaker. Add the fuse in the positive power connection to the unit if necessary.
- Apply power* to the Wi-Fi Remote Control and you should see the three LEDs start to illuminate or flash. The following table shows what each LED indicates;

Condition	Red LED "STATUS"	Yellow LED "DATA 1"	Yellow LED "DATA 1"	Green LED "LINK"
ON (Solid)				TCP/IP Connection
Fast Blink	No wireless connection	Data	Data	
Slow Blink		Data	Data	UDP Connection
OFF	Wireless device connected	No Data	No Data	No Power

*APPLY 12 - 24 VDC TO POWER THE WIFI MODULE

6. WIRELESS INTERFACING //

- The Wi-Fi Module has an integrated 802.11b+g wireless adaptor which creates a wireless hotspot on-board your boat. The SSID (name) of the wireless hotspot is "DY-ACR-XXXX" where XXXX is a four digit code unique to your Wi-Fi Module.
- To connect to the Wi-Fi Module, simply scan for wireless hotspots on your wireless device. The exact procedure will vary from device to device so consult the user manual for your device to understand how to connect to a wireless hotspot.
- Once you have wirelessly connected your mobile device to the Wi-Fi Module, you will need to open the ACR App (see instructions below on downloading the ACR App) on your mobile device in order to control the searchlight.

Wi-Fi Module Wiring

The Wi-Fi Module consumes around 0.1 Amp and can be left on whenever the boat is sailing. Should you have a problem connecting wirelessly to the wireless remote, press and hold the Reset button for 1-2 seconds and try connecting again. In busy marinas where there is significant wireless activity, there may be periodic fluctuations in connection to the wireless remote, but once underway (at sea) a consistent connection will be achieved.

7. DOWNLOADING THE ACR SEARCHLIGHT APP //

Downloading the ACR Searchlight App

iOS Devices:

Go to the Apple App Store and search for "ACR Searchlight" and download the free app.

Android Devices:

Go to the Google Play Store and search for "ACR Searchlight" and download the free app.

ACR Searchlight App



THE SCIENCE OF SURVIVAL



RCL Searchlight

Universal Wi-Fi Remote Control Module

Part Number: 9602



1. INTRODUCTION //

It is recommended that your product is installed by a professional installer.



Before operating the unit you should familiarize yourself with this Quick Start Guide and any manuals applicable for the searchlight that you are going to connect to the ACR Universal Wi-Fi Remote Control Module (Wi-Fi Module)

Limited Warranty

This product is warranted against factory defects in material and workmanship for a period of 1 year from date of purchase or receipt as a gift. During the warranty period ACR Electronics, Inc. will repair or, at its option, replace the unit at no cost to you for labor, materials and return transportation from ACR. For further assistance, please contact our Technical Service Department at ACR Electronics, Inc., 5757 Ravenswood Road, Fort Lauderdale, FL 33312-6645. Email: service@acrartex.com, Fax: +1 (954) 983-5087, Telephone: +1 (954) 981- 3333.

This warranty does not apply if the product has been damaged by accident or misuse, or as a result of service or modification performed by an unauthorized factory. Except as otherwise expressly stated in the previous paragraph, THE COMPANY MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER MATTER WITH RESPECT TO THIS PRODUCT. The Company shall not be liable for consequential or special damages.

FCC ID U30-G2M5477 Part 15.247
CE EU ID # 0681
SAFETY EN 60950-1:2001+A11:2004

2. BEFORE YOU START //

NOTICES

ACR Electronics diligently works to provide a high quality Product Support Manual, however, despite best efforts, information is subject to change without notice, and omissions and inaccuracies are possible. ACR cannot accept liability for manual contents. To ensure that you have the most recent version of the Product Support Manual, please visit the ACR website at www.acrartex.com.

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You will need the following items and tools to complete the installation:

- The RCL Searchlight Wi-Fi Module (supplied)
- The 2dB Wi-Fi Antenna (supplied)
- Access to 12V or 24V DC power supply where the unit is to be installed
- M3 or M4 screws or other fixings appropriate to the mounting location (not supplied)

To control and operate the Wi-Fi Module you will need:

- Suitable iOS or Android smart phone or tablet
- External GPS if you wish to display Position data on a Wi-Fi only iPad or other mobile device with no internal GPS
- A copy of the "ACR Searchlight" app downloaded from the Apple App Store (iOS) or Google Play Store (Android).

3. INSTALLATION //

Before starting installation select a suitable location for the Wi-Fi Module. The unit is water resistant; however it should be installed below deck in a dry location.

When locating the unit you should consider:

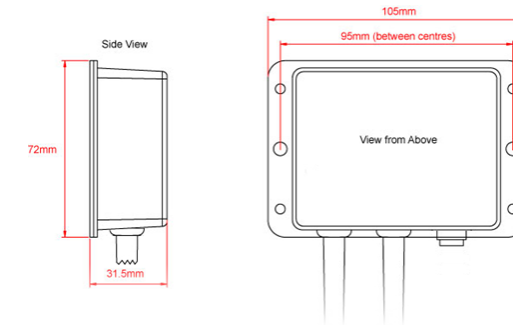
- Routing of power cables to the unit
- Provision of sufficient space above and below the unit for cable connections and Wi-Fi Antenna
- Maintaining the compass safe distance of 0.5m
- Best location for Wi-Fi reception i.e. not inside a metal enclosure
- Using suitable fixings (not supplied) to fix the Wi-Fi Module to a flat surface – using the dimensions and details shown in the fixed location drawing below. Note that the unit may be installed in any orientation

Installation Step 1 – Cabling

- Run 12V or 24V power connections to the Wi-Fi Module
- Run the NMEA 0183 interfacing cables to the Wi-Fi Module
- Do not make any connections yet

Installation Step 2 – Mounting the Wi-Fi Module

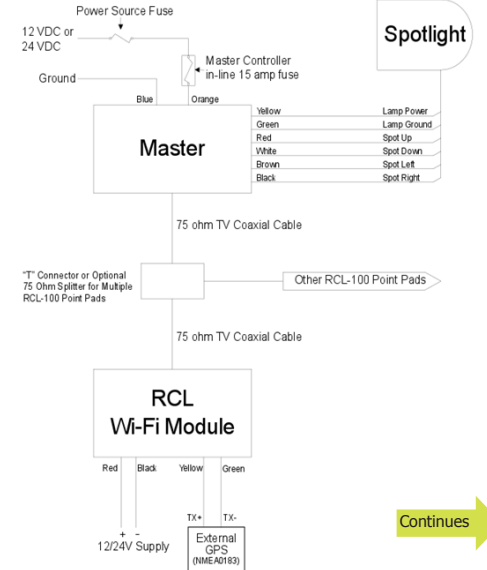
Fixed Location Drawing



Note: Once the unit is secured, connect the 2dB Wi-Fi antenna by gently screwing it in to the threaded SMA connector on the top of the unit. Ensure the connection is fully made but do not over-tighten.

4. WIRING //

Once the Wi-Fi Module is mounted, the system wiring diagram below shows how to wire your searchlight to the ACR Master Controller, Wi-Fi Module, and the ACR Point Pad.



Note: Wiring must be in accordance with this diagram. Improper wiring will damage components.