

99440, MCR² & MCR³

Multi-Communication Receiving, Reporting, Repeating Console

Features:

- Backwards compatible with existing Kingfisher Radio Transmitters:
 - STAR
 - KFAPT & KFAPT-S
 - KFRTI-8S
 - KF1S/KF3S
 - IRAC & IRAC-S
- Connects to multiple workstations with MCR² Software
- Electrically isolated boards permitting hot swapping
- Unlimited account capacity (NFPA limits capacity to 500 accounts per Frequency)
- 12 VDC battery backup
- 19" Rack or desktop mounting
- Boards accessible through front door or both 19" rack and desktop versions
- Repeater option available (MCR³)



KCi #99440-D Vertical Mount



KCi #99440-S Rack Mount

Description:

The Kingfisher MCR² Console is designed for receiving, monitoring, and reporting of events sent from Kingfisher transmitter. The Kingfisher MCR³ Repeater is designed for monitoring, receiving, reporting and repeating of events sent from Kingfisher transmitters to the Kingfisher Receivers.

An integral receiver is provided for multipoint wireless communication at distances up to 25 miles. The 25 miles must be "line of sight". Distances greater than 25 miles or that are not "line of sight" will be covered by Repeaters. Hard-wired signals can be interfaced to transmitters so many different types of events can be decoded and annunciated by the Receiver. Fire Alarm, Security, HVAC, Medical and any other type of event for a building system can be monitored, received and annunciated.

Annunciation occurs in several ways. Console comes equipped with LCD displays. Audible piezo is also integral to the unit. Additionally the annunciation occurs through a Graphical User Interface Software.

The Enterprise configuration of the MCR² Console provides a workstation server that can be networked with "client" workstations allowing multiple users to interface with one or more consoles.



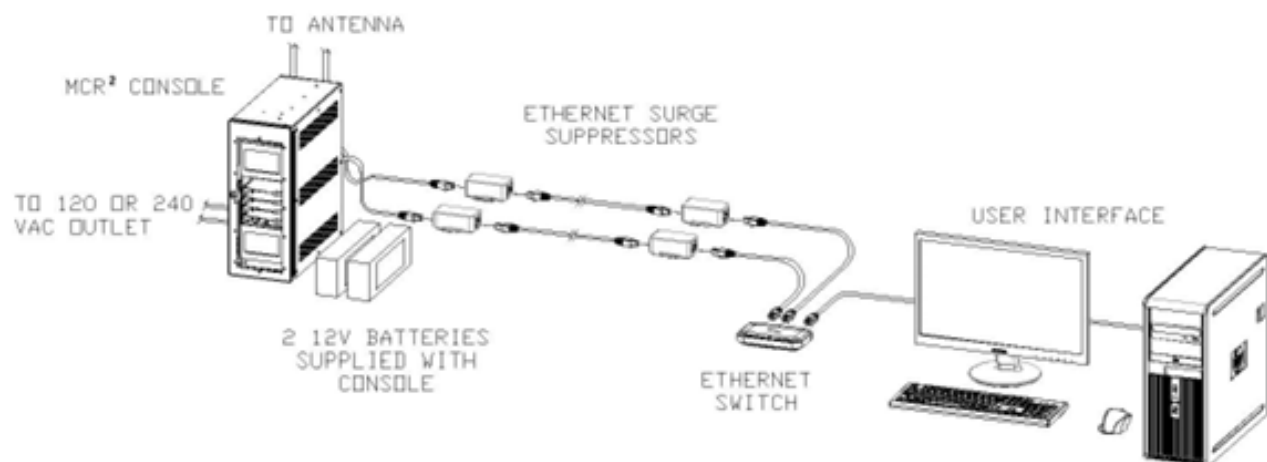
Kingfisher Company, inc.

99440, MCR² & MCR³

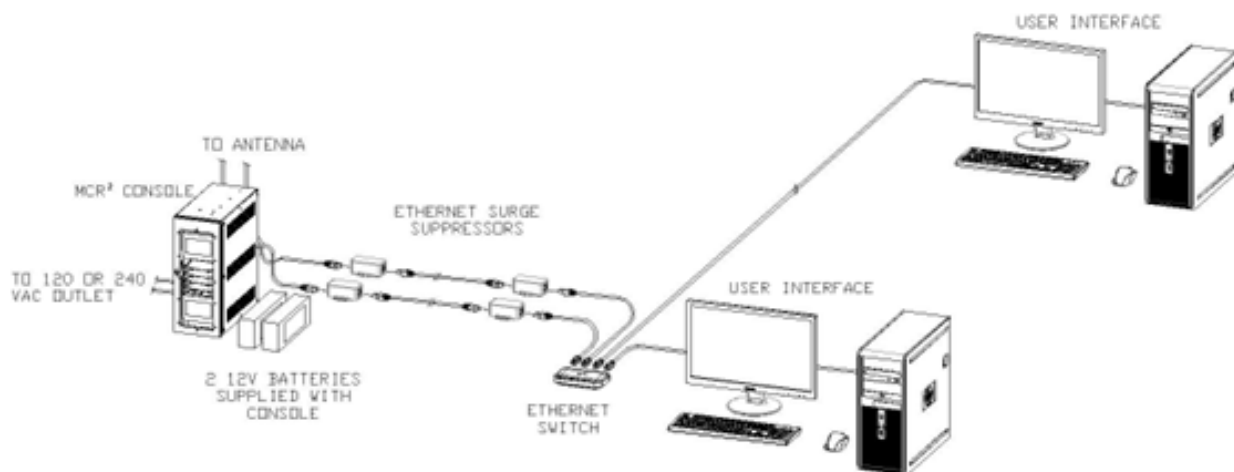
Multi-Communication Receiving, Reporting, Repeating Console

Options:

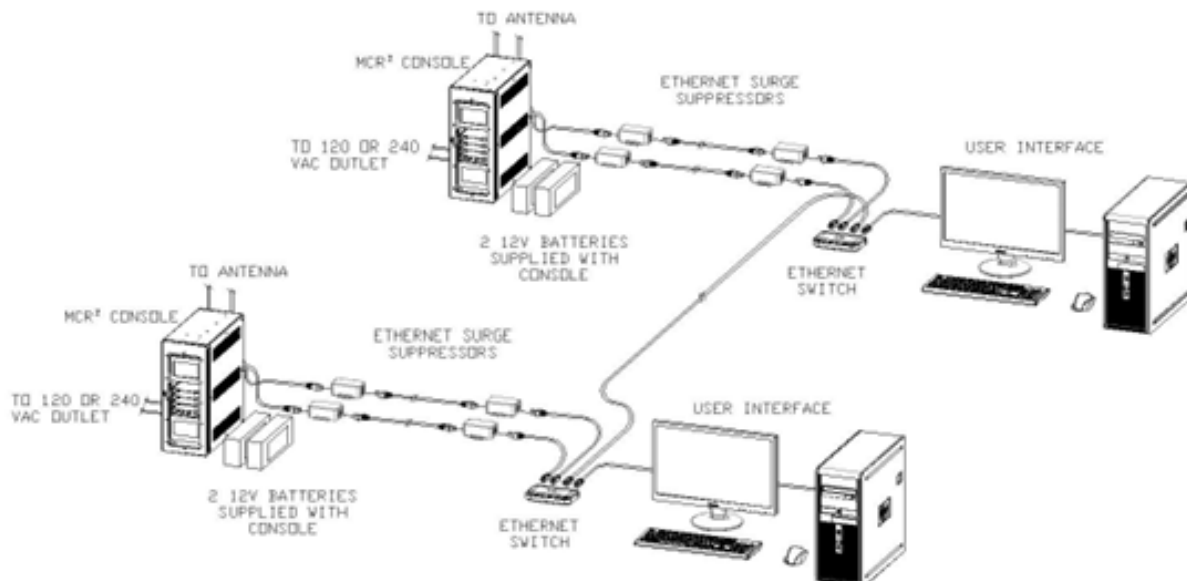
Standard Configuration



Enterprise Configuration (Single Console)



Enterprise Configuration (Multiple Consoles)

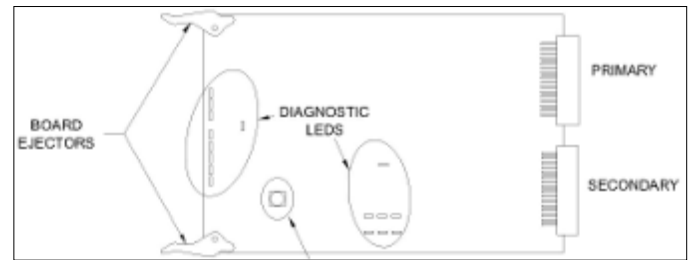


99440, MCR² & MCR³

Multi-Communication Receiving, Reporting, Repeating Console

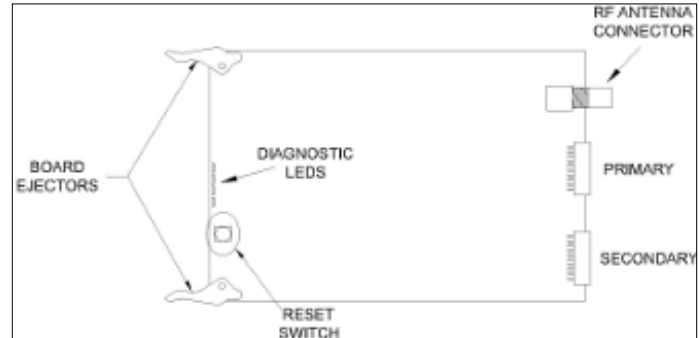
Controller Board:

- On board diagnostic LEDs
- Rack mount locking tabs for positive alignment and secure fit
- Automatically configured for primary or secondary installation. No special tools or programming.
- Flash firmware upgradable



RF Tone Board:

- On board diagnostic LEDs
- Rack mount locking tabs for positive alignment and secure fit
- Automatically configured for primary or secondary installation. No special tools or programming.
- Flash firmware upgradable



Specifications:

MCR ² & MCR ³	
Signal Format:	Kingfisher format std.
Signal Site:	Up to 999,999 remote alarm codes (per receiver board) 0,000 Zones (per receiver board)
Error Checking:	All received signals are checked for proper format, signal site and match errors
AC Line Voltage:	85-260 VAC
AC Frequency:	50-60 Hz
AC Current Draw:	1 Amp Max
Dimensions:	17.0" H x 14.5" W x 6.938" D
Temperature Range (Operational):	32°F-120°F (0°C-49°C) / (-40°C - +70°C with optional NEMA 3R Enclosure
Temperature Range (Storage):	-22°F-176°F (-30°C-80°C)
Enclosure Type:	NEMA 1 Standard / NEMA 3R optional
RF Receiver Board:	
Frequency Range FCC:	72-76 MHz
Frequency Range NTIA:	134-174 MHz
Frequency Resolution:	1 Hz
Frequency Stability:	± 5 ppm
Modulation:	Am and FM / 6 kHz channel acceptance
Channels:	2 Max per Tone board / 4 Max per receiver console
Tone Frequency Range:	190 Hz through 5000 Hz <25% THD
Impedance:	50 ohm
Sensitivity:	>0.1 mV / > -127 dBm
Rejection:	> -95 dBm
Selectivity:	90 dB for 12.5k Hz channel
Modulation Range:	6 kHz
Squelch:	< -127 dBm



Kingfisher Company, inc.

99440, MCR² & MCR³

Multi-Communication Receiving, Reporting, Repeating Console

Ordering Information:

KCi #	Model #	Description
Receiver Options: (All Receivers are Setup as Vertical Mount)		
99440-D	MCR ²	MCR ² Console (Includes 2 controller and 2 tone boards) for use with Workstation
99440-S	MCR ²	MCR ² Console (Includes 1 controller and 1 tone board) for use with Workstation
99440-R	MCR ³	MCR ³ Repeater (Includes 2 controller and 2 tone boards) for use with Workstation
99440-LC	MCR ² -LC	MCR ² DACT Line Card Console, (Includes 2 DACT Line Cards)
Workstation Options:		
97443	MCR ² PC	Workstation Only
99441	MCR ² W	Standalone Workstation (Includes Software and Accessories)
99442	MCR ² SW	Server Workstation (Includes Software and Accessories; Can connect up to 3 Client Workstations)
99443	MCR ² CW	Client Workstation (Includes Software and Accessories; System must contain a Server Workstation)
97960	KFUNVPRG	Universal Programming Laptop (For MCR ² & MCR ³)
Back Up Power Options		
17033	BP1208	Battery Pack, 12V, 8AH
17122	BP1226	Battery Pack, 12V, 26AH
17121	BP1242	Battery Pack, 12V, 42AH
NPN		UPS for Workstation
Accessories and Kits		
5701	MCR ² 10EC	10' Ethernet Cable (For Use with A 3rd Client or Multiple Frequencies)
40403	MCR ² CBX	Contractor Box, (For housing Antenna Connections, Batteries and Accessories)
88440	MCR ² SS	Ethernet Surge Suppressor
91440	MCR ² RM4	19" Rack Mount Kit, 4 Post Rack (Horizontal Mount)
91442	MCR ² RM2	19" Rack Mount Kit, 2 Post Rack (Vertical Mount)
97444-24	MCR ² ES24	Ethernet Switch 24 Port (For Use with Clients or Multiple Frequencies)
97444	MCR ² ES	Ethernet Switch 5 Port (For Use with Clients or Multiple Frequencies)
91443	MCR ² CSX	Contractor Shelf, MCR ²
91403	MCR ² CBSX	Contractor Box and Shelf, MCR ²
Replacement Parts		
66986	MCR ² TB	MCR ² Console - RF Tone Board
66987	MCR ² MB	MCR ² Console - Motherboard
66988	MCR ² CB	MCR ² Console - Controller Board
669403	MCR ² DA	MCR ² Console - LCD Display Assembly
66985	MCR ² LD	MCR ² Console - Loop Decoder Board

**For Systems with 3 Clients or multiple frequencies additional components will be needed,
please contact factory for help with system design.**

Kingfisher Company, inc., products must be used within their published specifications and must be PROPERLY specified, applied, installed, operated, maintained and operationally tested in accordance with their installation instructions at the time of installation and at least twice a year or more often and in accordance with local, state and federal codes, regulations and laws. Specification, application, installation, operation, maintenance and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Kingfisher Company, inc., standard terms and conditions

Kingfisher Company, inc. 81 Old Ferry Road - Lowell, MA 01854

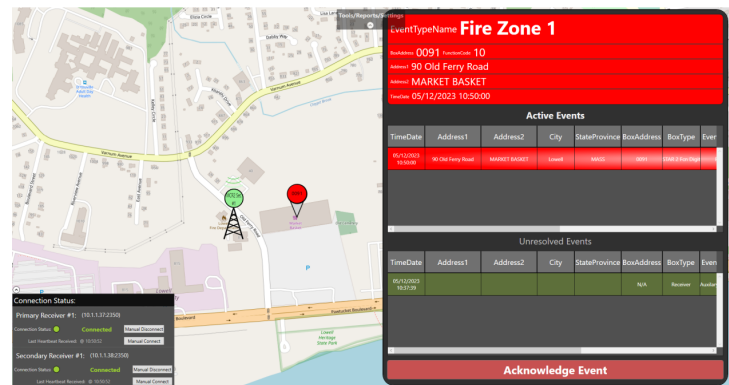
Phone: 978-596-0214 Fax: 978-596-0217 www.kfci.com

MCR² 97440

Multi-Communication Receiving & Reporting Software

Features:

- Redundant databases
- Record shift changes
- Missing Account Reports
- Event Manager displays and sorts Events
- New Event types can be defined and customized
- Event Tables can filter out devices undergoing testing
- Location Tables display and sort location information per transmitter of device
- Map, CAD, and Image displaying of events



Description:

The Kingfisher MCR² GUI Software is for use on the Kingfisher MCR² Receiver. The software works on a provided PC. Events which the MCR² Receiver processes will be forwarded simultaneously to the MCR² Software display for reporting, acknowledgement and resolution by your emergency personnel. The Event can be displayed, stored and recalled in a variety of ways. Initial event display is by a customized and prioritized Event Display window. Once acknowledged the information can be stored and recalled through standard factory default Tables or customized reports. User interface screens utilize Windows based technology and a Windows based theme providing immediate familiarity with the program.

- Multiple methods to add or delete new accounts and monitored events
- Create custom reports by account, by missing account, by troubles received or based on any data field
- Custom maps with animated images to indicate the location of the event
- 20 Predefined Factory Events including:
 - Fire
 - Medical
 - Security
 - Tamper
 - Supervisory
 - Police
 - Auxiliary Trouble
 - Trouble
 - Hazmat
 - Test
 - Battery Trouble
 - Power Trouble
 - Alarm
 - Pre-Alarm
 - Water Flow



Kingfisher Company, inc.

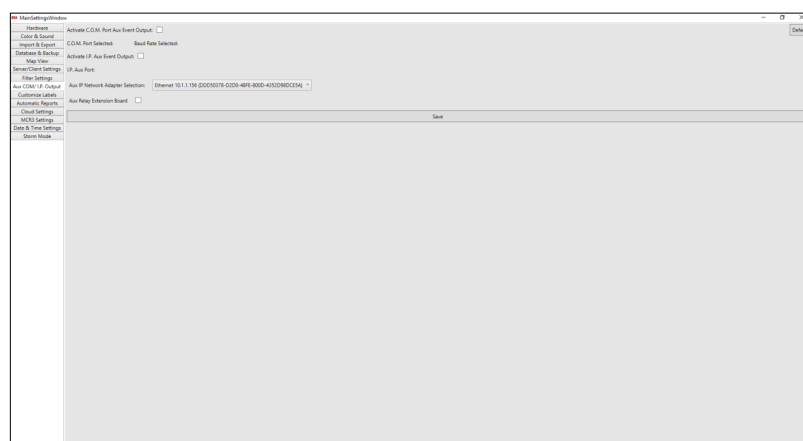
- Dispatcher view of incoming and active events
- Customizable maps detailing event location
- Filter nuisance events, such as test, commissioning and drills
- Generate Reports and view database information



- Permanent log of received events
- Color coded by event type
- Actions and resolutions can be viewed or edited



- Configure system settings
- Perform system diagnostics
- View system status



Multi-Communication Receiving & Reporting Software

- Easily add any Kingfisher Transmitter to your database
- Define location, event, and zone information
- Link to custom geographical location to be displayed upon event annunciation

Location Data

Add New Box

Delete Selected Box

Search

0003

00075

00076

00091

00095

1008

1000

1102

1112

1113

1114

1115

1116

1117

1118

1119

1120

1121

1123

1124

1125

1126

1127

1128

1129

1130

1131

1132

1134

1135

1136

1137

1138

1139

1140

1141

1142

Search

Box View

Box Number:

Box Type:

Address 1:

Address 2:

City:

Postal Code:

State/Province:

Country:

Relay Preview:

Change Relay Settings

Filter Preview:

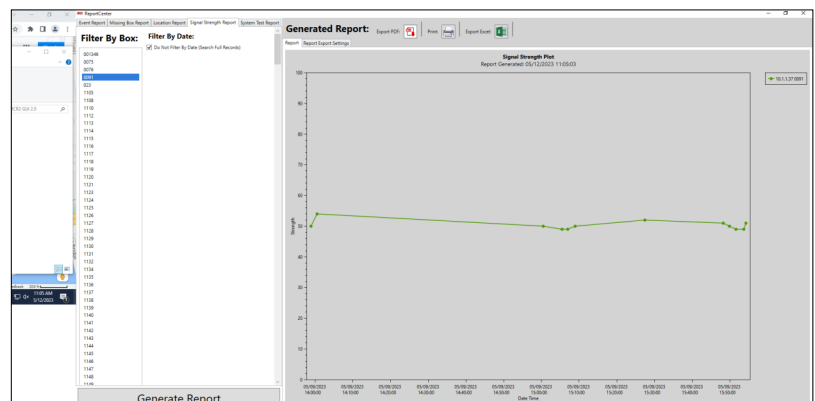
Change Filter Settings

Map Preview (Right Click to change Marker Location)

Show All Markers

Save Changes

- Box History Reports
- Missing Box Reports
- Location Reports
- Fully Customizable Fields
- Selectable Date Ranges
- Box Signal Strength Reports

[illegible]

Specifications:

Power:	
Voltage:	120/230VAC
Frequency:	50/60Hz
Environmental:	
Operating Temperature:	41°F - 95°F 5°C - 35°C
Humidity:	<85%
Technical Specifications:	
CPU:	Intel 3.50 GHz Quad-Core Xeon
RAM:	16 GB Ram DDR3 SDRAM PC3 - 12800 1600MHz
Hard Drive Capacity	256 GB
Operating System:	Windows 7 / 8/ 10 64-Bit
Display & Graphics (Additional Display and Graphics):	
Graphics Controller:	NV Quadro K620
Screen Resolution:	Variable

Ordering Information:

KCi #	Model #	Description
97440	MCR ² GUI	MCR ² , Graphical User Interface Software
97441	MCR ² SDS	Server Database Software, Required for Enterprise Configuration Server PCs
97442	MCR ² CDS	Client Database Software, Required for Enterprise Configuration Client PCs

Kingfisher Company, inc., products must be used within their published specifications and must be PROPERLY specified, applied, installed, operated, maintained and operationally tested in accordance with their installation instructions at the time of installation and at least twice a year or more often and in accordance with local, state and federal codes, regulations and laws. Specification, application, installation, operation, maintenance and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Kingfisher Company, inc., standard terms and conditions