

Manufacturer:	Niles
Model Number(s):	MRC-6430
Minimum Core Module Versions:	ELAN version 7.1 ELAN Control 8.0 required for Streaming Services from MRC
Comments:	
Document Revision Date:	12/6/16

## **OVERVIEW AND SUPPORTED FEATURES**

### THE FOLLOWING FEATURES ARE SUPPORTED:

**Traditional Whole-House Audio and Do Not Disturb:** The Niles MRC6430 has support for 6 sources Plus Paging. It has 6 outputs; 4 with pre-amp out and amplified speaker connections, and 2 pre-amp out only zones. Zones enrolled in Whole-House Audio can also be placed in Do Not Disturb Mode.

Paging: The Niles MRC6430 Supports paging.

**IR Routing:** The MRC6430 has 6 IR Outputs. They are added as available IR outputs in the configurator when the device is added to the ELAN system.

**Multiple Controllers:** Two Niles MRC6430 units can be controlled on the same network. Stacked MRC6430 Controllers are not supported and each is considered its own independent Zone Controller.

**Settings Pages:** When the Niles MRC6430 is added into the Configurator, the **ELAN** system will auto-populate the settings pages for the zones.

Ethernet Control: Reliable, 2-way communication is established between the Controller and the MRC6430.

**Streaming Audio Sources:** As of ELAN Control 8.0, The built-in streaming audio services are available for use on the ELAN Control Platform. Note that the streaming services must be setup in the Niles unit prior to adding to ELAN.

Any feature not specifically noted as "supported" is not supported.

## INSTALLATION OVERVIEW

#### INSTALL SYSTEM:

- 1. During the rough-in phase, install speaker wire for the speakers in each zone.
- 2. Also during the rough-in phase, run a Cat5 wire from the location of the Zone Controller to the Managed Switch, and a Cat5 from the Managed Switch location to the Network Assembly as needed.
- 3. Mount the speakers and keypads in each zone, and install the Zone Controller and the sources.
- 4. Setup the Niles.
- 5. Configure Streaming Services through the stand-alone Niles interface.
- 6. Connect the ELAN system to the Niles system electrically. See the Wiring Diagrams for more information.
- 7. Configure the ELAN system for the Niles and confirm communication between it and the ELAN Controller. See ELAN Configuration details below.
- 8. Test the system by changing sources in a zone to confirm the correct source plays, and by testing the **ELAN** interface transport controls.

## **CONNECTION DIAGRAM**



#### **BILL OF MATERIALS**

#	Device	M anufacturer	Part Number	Protocol	Connector Type	Notes
1	Niles MRC6430	Niles	MRC6430	TCP/IP	RJ45 Female	
2	Cat5 Cable Assy.	Installer	N/A	TCP/IP	RJ-45 Male X RJ-45 Male	M ust connect all 8 wires
3	Network Assembly	ELAN	NWA 18	TCP/IP	RJ-45 Female	or router/switch
4	g! Controller	ELAN	Various (Ex. gSC10)	TCP/IP	RJ45 Female	

**NOTE:** If you plan to use the Niles Streaming Services available on the chassis, the services must be set up on the Niles box prior to integrating it with the ELAN Control Platform. Please see the Niles documentation for information on configuring the Streaming Services.

# **ELAN CONFIGURATION**

Adding the chassis to **ELAN** Configurator:

On the Media tab in the Configurator, right click and add a new Audio Zone Controller. Select "Niles MRC6430" from the list. (A Communication Device is <u>not</u> required and should <u>not</u> be added)

1. Add the MRC6430 under Zone Controllers

Add New Zone Controller		X
Name	Niles MRC6430	
Device Type	Show Unsupported	Devices
Name	Version	•
Marantz SR7005,AV7005 (D-Type)	7.1 Build 412.0 Rel	
Marantz SR7007 (D-Type)	7.1 Build 412.0 Rel	
Marantz SR7008 (D-Type)	7.1 Build 412.0 Rel	
Marantz SR7009 (D-Type)	7.1 Build 412.0 Rel	
Marantz SR8001	7.1 Build 412.0 Rel	
Marantz SR8002	7.1 Build 412.0 Rel	
Marantz SR9600	7.1 Build 412.0 Rel	
Niles GXR2 Ethernet	7.1 Build 412.0 Rel	
Niles MRC6430	7.1 Build 412.0 Rel	
Nuvo Concerto	7.1 Build 412.0 Rel	
Nuvo Essentia	7.1 Build 412.0 Rel	-
Search For Devices Search Folder	Cancel	ок

### 2. Select your MRC6430 Unit:

g/ SC F8-57-2E-00-00-90 : Configurator (Press F1 for Help)						
System	+ 😨 Communication Devices	Zone Controller : Niles	MRC6430			
Security	Video Displays	Name	Niles MRC6430			
Climate	■ Zone controners	System #	70255			
Lighting	Sources	Driver Version	7.1 Build 662.0 Rel			
Lighting	Source 01)	Device Type				
Content	(Source 03)	Settings	MRC6430 F8-57-2E-00-09-30			
Media	🗧 (Source 04)	Controller Specific Pr				
Video	Source 05)					
Video	Zones	Paging input Level				
Messaging	T Zone 1					
Irrigation	+ Zone 2					
	T Zone 3					
Pool Control	T Zone 5					
UPS	T Zone 6					
Interface	Interface Groups					
Input/Output						
Event Mapper						
		Apply				

- 3. Configure the controller specific Properties:
  - a. ERP: Constant Or Audio Sense. See MRC6430 for full details on ERP Modes
  - b. Paging Input Level: Set the Paging Inpul Level from -6 to 6



### 4. Configure Zone Settings

8/ SC F8-57-2E-00	0-00-90 : Configurator (Press F1 for Help)	Manual Street	the same of the sa		
System	<ul> <li></li></ul>	Audio Zone: Zone			
Security	+ Video Displays	Name	Zone 1		
Climate	Image: Some Controllers     Image: Some Controllers	System #	2743		
Liebting	🗐 😅 Sources	Universal Receiver	< NONE >	<b>_</b>	
Lignung	Cones	Display 1	< NONE >	<u> </u>	
Content	+ 0 Zone 2	Display 2	< NONE >	<u> </u>	j
Media	🕂 📢 Zone 3	Slave Zone 1	< NONE >	<u> </u>	
	+ 0 Zone 4	Slave Zone 2	< NONE >	<u> </u>	
Video	+ V Zone 5	Turn On Source	< NONE >	<u> </u>	
Messaging	+ Interface Templates	Hide Volume	No	<u> </u>	
Irrigation	Interface Groups	Audio Return Input	< NONE >	<u> </u>	
ingation		Controller Specifi	c Zone Properties:		
Pool Control		Bass	0	<u> </u>	
UPS		Treble	0	<u> </u>	
		Loudness	Off	<u> </u>	
Interface		Zone On Volume	35	<u> </u>	
Input/Output		Max Volume	100	<u> </u>	
Event Manner		Line Out Volume	Variable	<u> </u>	
		VVHIVI Enabled	Yes	-	
		Paging Enabled	res		
		Paging volume	30 Default		
		Power On Benavior	Delaut		j
		Source Configuration	7 0 14		I
		Source Display Na+ror	n Zone Show Vo	lume Control	
					j
					j
					j
					1
		6			
		Apply			

Quick Reference: MRC6430 Zone Settings					
Bass	Bass Adjust form -12 to 12				
Treble	Treble Adjust from -12 to 12.				
Loudness	Loudness Adjust On/Off				
Zone On Volume	Default Zone On Volume				
Max Volume	The maximum volume allowed for the zoneAn "X" in this column designates that the zone participates in the Whole House Music functionality of the zone controller.				
Line out Volume	Set to Fixed or Variable for Line outs				
WHM Enabled	Set to "Yes" to enroll zone in WHM				
Paging Enabled	Set to Yes to enable Paging for this Zone				
Paging Volume	Set the Paging volume for this Zone.				
Power on BehaviorSet to Default to have defaults defined above loaded at power on, o Last Set to have the device power on to its settings at shutdown					

# **ELAN CONFIGURATION DETAILS**

The following table provides settings used in the ELAN Configurator. Please refer to the ELAN Configurator Reference Guide for more details.

In the table below:

o "<Select>"

Select the appropriate item from the list (or drop-down) in the Configurator.

• "<User Defined>", etc.

Type in the desired name for the item.

Devices	Variable Name	Setting	Comments		
Communication Device		NONE REQUIRED			
Audio Zone Controllers	Name	<user defined=""> (Default: MRC6430)</user>			
	Device Type	Niles MRC6430			
	Settings	<select> The MRC6430 Unit being addressed</select>			
Controller Specific Properties	ERP	<select>[Constant   Audio Sense]</select>	See MRC6430 Documentation for full details on ERP Modes		
	Paging Input Level	<select>[-3 3]</select>			
Zones	Edit Zone setting such as Bass, Treble, Loudness, etc. See Reference Guide for full details on zone configuration.				

# **COMMON MISTAKES**

- De-integrating the device: When removing a MRC from ELAN, the unit must be connected and powered on when deleting the device from the configurator. Failure to have the device connected and running when de-integrating from ELAN will result in the MRC unit failing to return to stand-alone mode. To correct this, read and delete the MRC to ELAN while the unit is connected and powered on.
- 2. Streaming Services not available: The Streaming Services must be configured while the MRC is in stand-alone mode prior to ELAN integration. If this step was missed, remove the MRC from Configurator and log in with the Niles Connect utility and configure Streaming according to the Niles documentation.