

Niles Audio Corporation

IntelliControl Reference Manual

Version 8.1 April 2002



Contents

1A. IntelliControl Features and Benefits	1
<i>A Complete System.....</i>	<i>1</i>
<i>One Touch “Intelligent Macros” To Turn The Entire Home Theater On or Off.....</i>	<i>2</i>
<i>Automatically Unmute the System.....</i>	<i>2</i>
<i>Manage and Automate “Unfriendly” Components</i>	<i>2</i>
<i>Trigger Screens, Screen Masking Devices, Projector Lifts, Curtains and Drapes</i>	<i>2</i>
<i>PC Programmable with IntelliFile II.....</i>	<i>2</i>
<i>Proudly Made in USA.....</i>	<i>3</i>
1B. IntelliControl Parts Guide.....	3
<i>The Tabletop Remote</i>	<i>3</i>
<i>The Main System Unit (MSU)</i>	<i>4</i>
1C. Selling the System.....	6
<i>Selling Automated Home Theater Systems</i>	<i>6</i>
<i>Solving The Problems of Conventional Home Theater Operation.....</i>	<i>6</i>
Problem One: Turning the System On	6
The IntelliControl Solution: Synchronization (Sync)	6
Problem Two: Selecting Inputs & Modes	8
The IntelliControl Solution: Software Managers to Select Inputs and Modes	8
2A. Power Synchronization.....	11
<i>Infrared Turn On/Off Requires “Sync”</i>	<i>11</i>
<i>Components that Don’t Need Sync – Those with Latching Power.....</i>	<i>11</i>
<i>Remember the Exception – Tuners built into Receivers and Televisions</i>	<i>12</i>
2B. Sync Methods and Options	12
<i>Video Sync</i>	<i>13</i>
Syncing the TV	13
<i>12 Volt Sync.....</i>	<i>13</i>
1. 12V DC Sync via a Wall Adapter Plugged into a Switched AC Outlet	13
2. Niles LS-1 Light Sensor	14
3. Niles OTI-512 Voltage Sensor.....	14
4. Niles APC-2 Current Sensing Switcher	14
5. Niles IPC-6 Current Sensing AC Power Controller	14
<i>Each Sync Connection on the Main System Unit Corresponds to a Particular Master Key on the Tabletop Remote</i>	<i>15</i>
<i>Conventional Labeling Rule: Video on the Left, Everything Else on the Right</i>	<i>16</i>
Once Again: Remember the Exception	16
2C. Component Compatibility	16

<i>Infrared Compatibility</i>	16
<i>Testing Components for Automation Conflicts</i>	17
<i>Testing Components for Sync Method</i>	18
Sync Off Delay	18
3A. Pages, Keys, and Sequences	22
<i>An Address For Every IR Command</i>	23
<i>Issue A Sequence From A Function Key</i>	23
<i>Purpose of the Master Key Pages</i>	24
<i>Purpose of the Default Page</i>	24
<i>Purpose of the Library Pages</i>	25
3B. Master Key Automation: Part 1 - One Touch System Turn On	25
<i>Sync Snapshot</i>	26
<i>Event One – Initial Sequence</i>	26
<i>Event Two - TV Power</i>	27
<i>Event Three - Preamp Power</i>	27
<i>Event Four - Component Power (Not Applicable to Master Keys Nine and Ten)</i>	27
<i>Event Five - TV Input</i>	27
<i>Event Six - Preamp Input</i>	27
<i>Event Seven - Surround Mode</i>	27
<i>Event Eight - Ending Sequence</i>	27
3C. Master Keys: Part 2 - Special Features	28
<i>Automation Bypass for Manually Adjusted Features</i>	28
Automation Bypass for a Typical Application.....	28
<i>How to Program “Component Power” for Multiple Master Keys which Share a Common Source</i>	29
<i>Press and Hold a Master Key</i>	30
<i>Custom Programming for Preamp/Receivers with Separate On/Off Commands</i>	31
3D. Master Keys: Part 3 - Direct IR, Sequence IR, and Managers	31
<i>Direct IR - A Different “Single” IR Code for each of the Component’s Inputs</i>	31
Testing Direct IR	31
<i>Sequence IR— a Single “Input Toggle” Command and a Secret Back-Door “Anchor” Command(s)</i>	31
Finding the Secret Back-Door “Anchor” Command.....	32
Testing the “Anchor” Command.....	32
<i>Input Manager – For Components with only a Single “Input Toggle” Command</i>	32
Testing the “Input Manager” Method.....	32
Determine the “Defaults”	32
3E. Master Keys: Part 4 – Intelligent System Turn Off	33

<i>Event 1 - "System Off" Initial Sequence.....</i>	<i>33</i>
<i>Event 2 - TV Auto Turn Off.....</i>	<i>33</i>
<i>Event 3 - Auto Volume Reset.....</i>	<i>33</i>
<i>Event 4 - Preamp Auto Turn Off.....</i>	<i>33</i>
<i>Event 5 - Component Auto Turn Off.....</i>	<i>33</i>
<i>Event 6 - "System Off" Ending Sequence.....</i>	<i>33</i>
3F. The Audio, Video, and Assignable Relays with Control Voltage Output	34
<i>Relay Voltage Limitations.....</i>	<i>34</i>
<i>Audio 12V Output</i>	<i>34</i>
<i>Video 12V Output and Relay.....</i>	<i>34</i>
<i>Assignable 12V Output and Relay.....</i>	<i>34</i>
3G. Utilities	35
<i>ID Code</i>	<i>35</i>
<i>Volume Reset.....</i>	<i>35</i>
<i>IR Routing.....</i>	<i>35</i>
<i>Dual TV</i>	<i>36</i>
<i>Mute Manager.....</i>	<i>36</i>
4A. Using Your Original Remote Controls via an IR Repeater System	37
<i>Integrating a Second Zone.....</i>	<i>37</i>
<i>Turning On Common Sources in Multi-Zone Systems.....</i>	<i>38</i>
<i>Integrating the Niles RVL-6 and MRZ-6 Multi-Room Controllers.....</i>	<i>39</i>
<i>Multiple TV Array In A Media Room.....</i>	<i>39</i>
<i>Integrating the Niles IntelliPad™ Into the Home Theater.....</i>	<i>39</i>
<i>Integrating a Learning Touchscreen Into An IntelliControl Home Theater.....</i>	<i>39</i>
<i>Teach the RF/IR Conversion Codes for the Master Keys, Function Keys, and System Off Key.....</i>	<i>40</i>
Step-by-Step Installation of a New System	41
<i>1. Connect, Power Up, and Test The Home Theater.....</i>	<i>41</i>
<i>2. Check MSU Location for Freedom from Interference.....</i>	<i>41</i>
<i>3. Connect and Power Up the MSU, Your PC, and the IntelliFile II.....</i>	<i>41</i>
<i>5. Testing and Troubleshooting RF Transmission and Reception.....</i>	<i>42</i>
<i>6. Connect Flashers and Sync Cables.....</i>	<i>43</i>
<i>7. Flasher Level Check</i>	<i>44</i>
<i>8. The IR/RF Test LED.....</i>	<i>45</i>
Specifications.....	46

The IntelliControl Tabletop Remote..... 46
The IntelliControl Main System Unit..... 46

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.