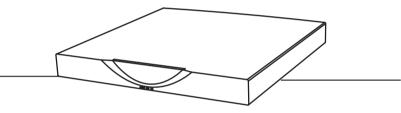




DIGITAL STREAM PLAYER ____



SYSTEM INSTALLATION AND SETUP MANUAL

INSTALLATION AND SETUP

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INSTALLATION AND SETUP

1 OVERVIEW

The Klimax DS player operates within a standard Ethernet network. There are six components involved in the network.



www.linn.co.uk

INSTALLATION AND SETUP

1 OVERVIEW (continued...)

The first two components provide network infrastructure.

1. Ethernet switch

This device is the connection point for all other components on the network allowing all components to communicate with each other.

2. **WAP**

Plugs into the switch thereby allowing wireless components to communicate with wired ones.

A PC/laptop is required for system installation.

3. PC/laptop

The PC or laptop is a standard computer that is used during setup and configuration of the Klimax DS system. The same, or another computer, may be used after setup to add new music to the NAS. In order for the computer to communicate with the Klimax DS system, it must be connected to the switch.

The final three devices interact together to provide the Klimax DS music experience. They are:

4. **NAS**

Securely stores music on a hard drive array. Additionally, the NAS runs three important pieces of software:

a. Media Server

Indexes and allows retrieval of the music from the NAS.

b. DHCP Server

Responsible for allocating IP addresses to all devices on the network.

c. Network Sharing Protocols

Allows computers to place new music on the NAS.

5. Wireless Control Point

Allows the user to browse, select, and control the playback of music. It requests information about the location of the music from the Media Server and then passes this information to the Klimax DS.

6. Klimax DS

Follows instructions from the wireless control point to retrieve music on the demand from the NAS and then transforms the digitally stored music into high quality analogue audio. The Klimax DS plays WAV and FLAC files.

The above describes the default network architecture for a Klimax DS system. Many other network configurations are possible, depending on specific requirements.

INSTALLATION AND SETUP

2 SET UP OF THE NAS

To make installation easier, here we describe in detail the steps needed to setup an Infrant ReadyNAS NV+. For other NAS devices consult the documentation from your NAS vendor. The instructions below assume that the NAS has been supplied with hard drives pre-installed. The RAID configuration for the Infrant ReadyNAS NV+ is best set at X-RAID. For other manufacturers' devices RAID 5 should be chosen to allow easy future expansion of storage.

- 1. On the installation PC/laptop disable all firewalls and the proxy server.
- 2. Follow the Getting Started Guide supplied with the ReadyNAS, up to and including installing the RAIDar software. Once installed and running, RAIDar will scan the network for the ReadyNAS. If the screen below appears, check all connections, ensure all firewalls and the proxy server are disabled, then press 'Rescan'.

RAIDar	
elect a NAS device to setup	
RAIDar Help	<u>*</u>
About RAIDar	
RAIDar acts as a discovery tool for the NAS devices on yo device(s) listed. If no NAS device is detected , check the	ur network. Simply plug in your NAS onto the network and start RAIDar. You should see the NAS following and click Rescan to try again.
 Make sure the NAS device is powered up and is co Make sure your client PC running RAIDar is on the 	e same subnet as the NAS device.
If you are running RAIDar on Windows XP before	SP2, sisaole the internet connection mrewail.
RAIDar Buttons	
RAIDar Buttons Once you see the device listing, highlight a device entry and	click on the desired command button at the bottom. The meaning of the buttons are as follows:

When the screen below appears, select the appropriate NAS (if more than one is available), then press 'Setup'.



You will be asked for a user name and password. Enter the default user name and password as shown in the ReadyNAS installation guide. After you login, select 'Next' from the bottom-right corner.

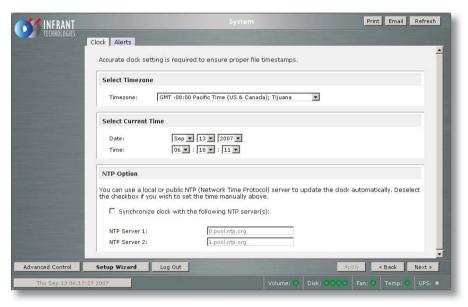


INSTALLATION AND SETUP

2 SET UP OF THE NAS (continued...)

3. The 'Clock' screen

Select the appropriate timezone and time for your location. If the 'Synchronize clock...' checkbox is selected, deselect it. Press 'Apply', then 'Next'.



4. The 'Alerts' screen

Enter one or more service email contacts. If there are any problems with the NAS an email notification will automatically be sent. This allows the problem to be diagnosed and corrective action taken before the user is aware that a problem exists. Press 'Apply', then 'Next'.

5. The 'Ethernet' screen

Select the IP address assignment appropriate for the network the Klimax DS system is being installed into. Press 'Apply', then 'Next'.

6. The 'Global Network Settings' screen

Select a hostname for the NAS, e.g. 'nas001'. This name should be unique to the network. The name will be used to refer to the NAS from other devices on the network, for example the ripping software (please refer to the *Ripstation Micro DS* section for details). Leave other settings unchanged. Press 'Apply', then 'Next'.

7. The 'Admin Password' screen

Complete the required information. Press 'Apply', then 'Next'.

8. The 'Security Mode' screen

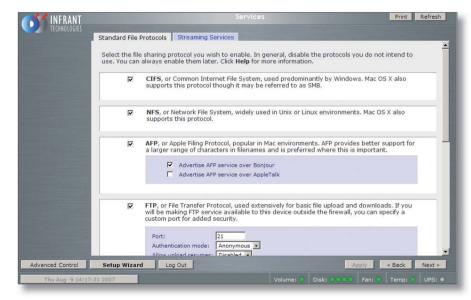
Nothing on this screen needs changed. Press 'Next'.

INSTALLATION AND SETUP

2 SET UP OF THE NAS (continued...)

9. The 'Standard File Protocols' screen

Select the NFS checkbox. Leave other settings unchanged. Press 'Apply', then 'Next'.



10. The 'Streaming Services' screen

Nothing on this screen needs changes. Press 'Next'.

11. The 'Share List' screen

Click on the CIFS icon on the line beginning 'media'. This will take you to 'Share Options'...



INSTALLATION AND SETUP

2 SET UP OF THE NAS (continued...)

12. The 'Share Options' screen

Set the default access to 'Read/Write'. Repeat this on the NFS, HTTP/S and Rsync tabs. Leave the AFP and FTP/S tabs set to 'Disabled'.

Select the Advanced Options tab. Make the following settings: Share folder owner: media Share folder group: nogroup Share folder rights: Read/write Share group rights: Read/write Share folder everyone rights: Read/write Uncheck 'Set ownership and permission for existing files...' Check 'Grant rename and delete privileges to non-owner of files.'

This completes the initial setup of the NAS.

INSTALLATION AND SETUP

3 TwonkyMedia

Installing TwonkyMedia Server

To complete the installation of the Infrant ReadyNAS, TwonkyMedia Server software has to be installed onto it. This is a UPnP media server and allows access to all material stored on the NAS.

TwonkyMedia will present the music files to the user in such a way that they will be ordered by Artist, Album, Artist/Album, Genre, etc. It gives various options for searching through the music, as explained below.



Downloading TwonkyMedia

TwonkyMedia for a PC or NAS other than an Infrant ReadyNAS, can be downloaded from the TwonkyVision website. If you are using an Infrant ReadyNAS, follow the steps below.

- 1. Enter the following link on your browser to access the installation guide: http://www.twonkyvision.com/Support/HowTo/ReadyNAS-Install.zip
- 2. Enter the following link on your browser to access the TwonkyMedia software: http://www.twonkyvision.com/ Download/4.4/TwonkyMedia_4.4.0.bin
- 3. Follow the instructions in the installation guide. Please note that the firmware version shown in step 3 of the installation instructions may not show the correct information.

Suggested TwonkyMedia Setup

There are various options for setting up TwonkyMedia which will effect how the information is displayed to the user. This can be customised for each customer as required.

- 4. Log onto the NAS. Select 'Advanced Control'. From the menu on the left select 'Services' then 'Streaming Services'.
- 5. Ensure the 'TwonkyMedia' service checkbox is enabled.
- 6. Follow the http link to connect to the TwonkyMedia server and purchase a license from the online shop.

INSTALLATION AND SETUP

3 TwonkyMedia (continued...)

7. Select 'First Steps' from the menu on the left-hand side.



Here the name of the server can be set. This is necessary for installations where more than one NAS is available. If you change any of the settings, press the 'Restart server' button before continuing.

8. Select 'Sharing' from the left of the page.

		Twon	kyMedia Configuration: S
Save Changes	Cancel	Rescan content di	ectories
dio Content Locations:			
etup /media/Music		Music-only	 Browse
		All content types	Browse
		All content types	 Browse
Add new content d	lirectory		
all content types. Sh	e server shall scan for content. aring can be temporarily disable	Each directory can be limited to a certain ed by unchecking the directory.	content type. The default setting will sca
Rescan in minutes:	60		
	content directories in minutes.	ver. If set to 0, automatic rescans are disa -1 enables the server to watch content dir	

The settings for 'Content Locations' is important as they will be used when setting up Ripstation Micro DS (the recommended disc ripping software). Use the browse button to set the path to correspond to the directory into which Ripstation will rip CDs - typically, this will be '/Media/Music'. Set the drop-down menu to 'Music-only'.

Set 'Rescan in minutes' to '60'.

Press 'Save Changes'.

INSTALLATION AND SETUP

3 TwonkyMedia (continued...)

9. Select 'Naming' from the left of the page.

Tick 'Standardize titles' at the top of the page.

Tavon	
911111	MEDIA TwonkyMedia Configuration: Nam
Jacob	Version 4.4 Beta 5
Basic Setup Basic Setup First steps Sharing	Save Changes Cancel Restart server
Clients/Security Internet Radio Advanced Setup External applications	Standardize titles: Enable/ disable standardization of titles and artists, e.g. changing "The Beatles" to "Beatles, The"
Naming Music tree Picture tree Video tree Miscellaneous	Folder prefix string: Folder prefix string to be prefixed to all folder names in folder navigation to help you differentiate folders from content items at the client device.
Support Troubleshooting FAQ TwonkyVision GmbH	All Tracks: Total Tracks Name for 'All Tracks' folder (server default used if left empty).
(2003,2007). All rights reserved	Playlists: Playlists Name of the playlists node in the navigation tree, leave empty if this node shall not be included in the navigation tree.
	Last played:

Row	da	
TRUCK	Version 4.4 Beta 5	ledia Configuration: Naming
	0	
Basic Setup		
 First steps Sharing 	All Pictures:	
Clients/Security Internet Radio	Name for 'All Pictures' folder (server default used if left empty).	
Advanced Setup	All Videos:	
Naming Music tree	Name for 'All Videos' folder [server default used if left empty].	
<u>Picture tree</u> <u>Video tree</u> Miscellaneous	Music: Music	
Support	Name for Music root folder, leave empty to suppress this folder.	
Troubleshooting FAQ	Pictures:	
© TwonkyVision GmbH (2003,2007).	Name for Pictures root folder, leave empty to suppress this folder.	
All rights reserved	Videos:	
	Name for Video root folder, leave empty to suppress this folder.	
	- ALL -:	
	Title of the - ALL - entry in the nodes of the navigation tree.	

Remove the 'Videos', 'Pictures' and '-ALL-' directories.

Press 'Save Changes'.

3 TwonkyMedia (continued...)

10. Select 'Music Tree' from the left of the page.

RUDA	MEDIA Version 4.3		Two	kyMedia	Confi	iguration: Music tree
					i	
etupi itopi ng	Save Changes Canc	el		Restart serve	H.	
nullies unity set Rottin		Name	Type	ABC		
ed Setup	Music node 1:	Artist	Artist	• 3	۲	Add level
val applications	Music node 2:	Album	Album	3 🖉	۲	Add level
tree	Music node 3:	Folder	Folder	۰.	*	Add level
u tree	Music node 4:	ArtistiAlbum	Artist	. 3	*	
flaneous			Album	• 3	-	Add level
lestooting	Music node 5:	YearlArtist	Vear			
and an and a second sec			Artist			
Valos GmbH 01			Album			Add level
eserved	Music node 6:			× -	٠	Add level
		Add node				
	An individual music navigation addition an alpha sub-groupin				the nam	e to be presented in the navigation tree and the node type have to be sp
	Navigation Tree Setup:	Advanced default naviga	ton 💌			
		ng different pre-configured navi n bee is sufficient. For large co	itent libraries the advanced	mavipation tree	provide	rs a befter structured bee

Apply the settings shown in the above screen image. Press 'Save Changes', then 'Restart server'.

INSTALLATION AND SETUP

4 RIPSTATION MICRO DS INSTALLATION

Linn recommends the use of Ripfactory's Ripstation Micro DS for ripping CDs to FLAC and sending them to the NAS. This software is available free of charge from Ripfactory's website. Ripstation Micro DS should be installed on the PC/laptop that will be used for ripping CDs.

Installation

Go to the Ripfactory website: http://www.ripfactory.com/rsmicrods.html Download and install the software.

Operation

Full details on using the software can be found in the Ripstation Micro DS User Manual, which you will find in the Ripfactory directory that has been added to the PC's Programs menu. A quick start guide is provided in the manual.

Ripping a large collection of cds

If a large collection of CDs needs to be ripped to the NAS, using Ripstation Micro DS may be too time consuming. An alternative method is to use Ripfactory's, or one of their approved dealer's, ripping service, details of which can be found on their website http://www.ripfactory.com/find.html.

INSTALLATION AND SETUP

5 RIPPING CDs

Ripping a large collection of CDs

If the customer has a large collection of CDs that need to be ripped to the NAS, using the above method may be too time consuming. An alternative method is to use a ripping service, such as Ripfactory (http://www.ripfactory.com/).

INSTALLATION AND SETUP

6 THE WIRELESS CONTROL POINT, AND INSTALLING THE LINN GUI AND CONFIG APPLICATION

You may need to fully charge the battery on the control point before continuing with this procedure (see the information supplied with the control device), this may take an hour or longer.

- 1. Update the control point with .NET 2.0, available at www.microsoft.com/net.
- 2. Copy the Linn GUI installer to the wireless control point.*
- 3. Copy the Linn Config installer onto the installation PC/laptop.**
- 4. Run both the installers. Do not launch the Linn GUI or Linn Config at this time.
- On the control point disable the 'Auto Right Click' behaviour. This can be done by locating the notification area at the bottom-right of the Windows screen and clicking the Touchkit: USB Controller icon
 - Select the 'Setting' tab
 - Press the 'Option' button
 - Deselect 'Enable Auto Right Click'.
- 6. The Linn GUI and Linn Config must be given firewall permissions to allow them to operate. If the PC/laptop uses the Windows Firewall the Linn software will be added automaticaly, providing you have admin rights on the PC/laptop. If a different firewall is used, consult the vendor's manual for instructions on how to add the Linn software to the list of permissions.

Note:

Each time you update to a new version of the Linn GUI or Linn Config software, you must add the new software to non-Windows firewalls' list of permissions.

- 7. To configure the Klimax DS system, follow the instructions in *The Linn Config Application* section.
- * You may wish to add a desktop shortcut to the Linn GUI to make it easier for the user to find.
- ** Install the Linn Config on the PC/laptop the customer will use to rip CDs. This will allow the customer to make changes to their system's setup (e.g. add a new source), and run the diagnostic tools.

INSTALLATION AND SETUP

7 KLIMAX DS INSTALLATION

This section describes how to connect the Klimax DS player into a Linn hi-fi system.

Unpacking

The Klimax DS is supplied with the following:

- handset
- 2 x AAA batteries for the handset
- 1 pair of silver interconnect cables
- RS232 lead
- mains lead
- CD-ROM
- owner's manual

We recommend that the owner retains all packaging in case they need to transport the Klimax DS at a later date.

Positioning

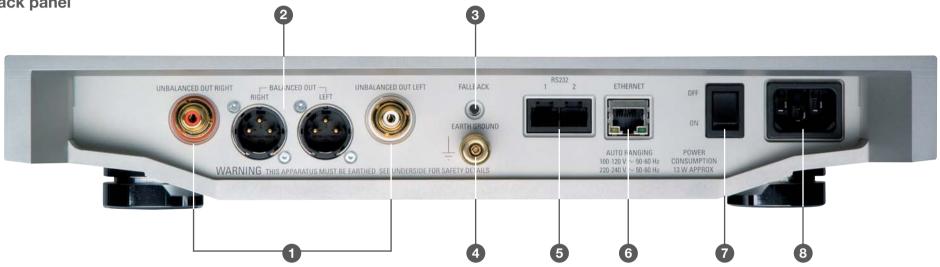
The Klimax DS can be positioned almost anywhere, but please consider the following points:

- The unit should be placed on a flat, stable and rigid surface.
- Do not position the unit where sunlight can shine (whether directly, diffused or reflected) on its display as the infra-red (IR) radiation in sunlight will be picked up by the unit's IR remote sensor and this can adversely affect its operation. Similarly, some electrical devices such as plasma TVs, fluorescent lights and energy saving lamps can emit IR which can likewise affect the operation.
- For best performance, do not stack the unit with other products. Ideally, position the unit on a shelf by itself or, if proximity to other products is unavoidable, positioning side-by-side is preferable to stacking.
- The unit should not be situated above, or otherwise directly adjacent to sources of heat such as radiators, power amplifiers etc. Nor should it be enclosed in a cabinet with such devices.
- The unit itself produces very little heat; however it is advisable to allow a little space to the sides, rear and above the unit (ideally 10 cm / 4") for air circulation which will allow any heat to dissipate.

INSTALLATION AND SETUP

7 KLIMAX DS INSTALLATION (continued...)

Back panel



UNBALANCED OUT RIGHT/LEFT 1. For connection to a Linn Klimax Kontrol or other pre-amplifier

2. BALANCED OUT RIGHT/LEFT

For connection to a Linn Klimax Kontrol or other pre-amplifier

3. FALLBACK

Used when reprogramming the unit

4. EARTH GROUND

For connecting the unit to an earthing terminal if no mains earth is available

- RS232 1, 2 5. Port 1 is for connecting to a Linn CD12, port 2 for a Linn Klimax Kontrol
- ETHERNET 6. For connecting the unit to the network switch
- OFF, ON 7. Mains power switch
- POWER 8. Mains power inlet

INSTALLATION AND SETUP

7 KLIMAX DS INSTALLATION (continued...)

Connecting to the mains supply

The Klimax DS contains an automatic internal mains voltage switch. This switch operates on all worldwide mains voltages from 100 V to 240 V. The unit can be connected to any worldwide mains voltage with no adjustment.

This unit must be earthed. Use the earthed moulded mains lead supplied, or if no mains earth is available, ensure the product's EARTH GROUND connector is connected to an earthing terminal.



RS232 connection on Klimax Kontrol and CD12

For communication to take place between the components in a Klimax DS system, the RS232 connection must be enabled on the Klimax Kontrol and CD12.

Klimax Kontrol

The RS232 Connection user option must be set to 'Enabled'. This is the default setting, so unless it has been changed no alteration is required. If the setting has been changed, or you wish to check it, follow the instructions below.

- 1. Put the Klimax Kontrol into standby.
- 2. Hold STANDBY on the front panel until the front panel display shows 'SLEEP DISPLAY'.
- 3. Repeatedly press SOURCE until the display shows 'RS232 CONNECTION'.
- 4. To change the setting, press VOLUME +.
- 5. Press STANDBY.

CD12

To enable the RS232 connection on the CD12 requires an internal change to the unit. This procedure is detailed in the CD12 Software Pack Version 1.3 document, which can be found within the following software pack CD12 boot-PROM Upgrade Procedure Rev. 2, on Linfo's Sondek CD12 product information page.

INSTALLATION AND SETUP

8 THE LINN CONFIG APPLICATION

The Linn Config application is used to configure the settings on the Klimax DS as well as a Klimax Kontrol and CD12.

- 1. Switch on the Klimax Kontrol and CD12.
- 2. Switch on the Klimax DS.
- 3. Launch the Linn Config if you have not already done so.

oom	Device Type	Product ID	MAC Address	IP Address	
fault	Klimax DS	11184658	40000020012	172.20.4.223	
ersion Auto	Configure Advanced Config	gure Diagnostics			
ersion Auto	Configure Advanced Config	gure Diagnostics			
rsion Auto	Configure Advanced Config	gure Diagnostics			
rsion Auto	Configure Advanced Config	gure Diagnostics			
sion Auto	Configure Advanced Config	gure Diagnostics			
sion Auto	Configure Advanced Config	gure Diagnostics			
sion Auto	Configure Advanced Config	gure Diagnostics			
sion Auto	Configure Advanced Config	gure Diagnostics	1		
sion Auto	Configure Advanced Config	jure Diagnostics			
sion Auto	Configure Advanced Config	gure Diagnostics			
sion Auto	Configure Advanced Config	pure Diagnostics			
sion Auto	Configure Advanced Config	pure Diagnostics			
sion Auto	Configure Advanced Config	jure Diagnostics			
sion Auto	Configure Advanced Config	Jure Diagnostics			
sion Auto	Configure Advanced Config	jure Diagnostics			
sion Auto	Configure Advanced Confi	Jure Diagnostics			
sion Auto	Configure Advanced Confi	ure Diagnostics			
sion Auto	Configure Advanced Config	Jure Diagnostics			

4. Highlight the Klimax DS and wait until the Linn Config connects to the unit. The 'Version' tab contains information on the Klimax DS for use by Linn Service personnel.

noc	Device Type	Product ID	MAC Address	IP Address	
ault	Klimax DS	11184658	40000020012	172.20.4.223	
		-			
	_				
oftware Version: 1	ure Advanced Confij 1.0-0.35 /bin/ binaries/De12_m				
oftware Version: 1 .F File: / oduct Id: 1 AC Address: 4					
oftware Version: 1 _F File: / oduct Id: 1 AC Address: 4 Address: 1 Board Type	1.0-0.35 /bin/.binaries/Ds12_m 11184658 40000020012 172.20.4.223 B	op_rr.elf oard ID			
oftware Version: 1 IF File: / oduct Id: 1 AC Address: 4 Address: 1 Board Type PCAS678P1R1	0-0.35 /bin/.binaries/Ds12_m 11184658 400000020012 172.20.4.223 B 5	p_m.elf pard ID 300002720c8c14			
oftware Version: 1 IF File: / oduct Id: 1 AC Address: 4 Address: 1 Board Type PCAS678P1R1	0-0.35 /bin/.binaries/Ds12_m 11184658 400000020012 172.20.4.223 B 5	op_rr.elf oard ID			
oftware Version: 1 IF File: / oduct Id: 1 AC Address: 4 Address: 1 Board Type PCAS678P1R1	0-0.35 /bin/.binaries/Ds12_m 11184658 400000020012 172.20.4.223 B 5	p_m.elf pard ID 300002720c8c14			
oftware Version: 1 IF File: / oduct Id: 1 AC Address: 4 Address: 1 Board Type PCAS678P1R1	0-0.35 /bin/.binaries/Ds12_m 11184658 400000020012 172.20.4.223 B 5	p_m.elf pard ID 300002720c8c14			
oftware Version: 1 LF File: / oduct Id: 1 AC Address: 4 'Address: 1	0-0.35 /bin/.binaries/Ds12_m 11184658 400000020012 172.20.4.223 B 5	p_m.elf pard ID 300002720c8c14			
oftware Version: 1 F File: / oduct Id: 1 AC Address: 4 Address: 1 Board Type PCAS678P1R1	0-0.35 /bin/.binaries/Ds12_m 11184658 400000020012 172.20.4.223 B 5	p_m.elf eard ID 300002720c8c14			
oftware Version: 1 F File: / oduct Id: 1 AC Address: 4 Address: 1 Board Type PCAS678P1R1	0-0.35 /bin/.binaries/Ds12_m 11184658 400000020012 172.20.4.223 B 5	p_m.elf eard ID 300002720c8c14			

INSTALLATION AND SETUP

8 THE LINN CONFIG APPLICATION (continued...)

5. Select the 'Auto Configure' tab. Select the configuration appropriate for the Klimax DS system, and press 'Run'.

🛒 Linn Configurati	ion Application				<u>_ </u>
Room	Device Type	Product ID	MAC Address	IP Address	-
Default	Klimax DS	11184658	400000020012	172.20.4.223	
DemoRelease	Klimax DS	4321013	40000002000d	172.20.4.245	
-					
1					<u>•</u>
Version Auto Confi	igure Advanced Config	ure Diagnostics			
Standard Configurati Standard Configurati Standard Configurati	ion 1 - Default (Klimas ID on 2 - Klimas Konttol + K Klimas Konttol + K Klimas Konttol + K ion 5 - Klimas Konttol + K	limax DS on input 1 (bal limax DS on input 2 (pho limax DS on input 1, CD	ono interconnects) 12 on input 2		Run
Online Con	nected				1.0-0.41 .::

6. Wait until the configuration has completed, then close the Automatic Configuration notice and select the 'Advanced Configure' tab.

Room					
noom	Device Type	Product ID	MAC Address	IP Address	
Default	Klimax DS	11184658	40000020012	172.20.4.223	
Default	Klimax Kontrol	Unknown	N/A	N/A	
			Automatic Configura	tion 🔀	
tandard Confic	uration 1 - Default (Klimax DS	ure Diagnostics	Auto Config Complete	ed Successfully	_
tandard Config tandard Config tandard Confic		on its own) limax DS on input 1 (bala limax DS on input 2 (pho limax DS on input 1. CD	an ano interconnectsj 12 on inout 2	ad Successfully	Run

INSTALLATION AND SETUP

8 THE LINN CONFIG APPLICATION (continued...)

7. On this screen you are able to customise aspects of the configuration, for example you may want to change the Room Name, Device Name or Display Brightness. You are also able to add additional source products that you wish to select from the Linn GUI. If you change items in the 'Advanced Configuration' tab, press 'Reboot'.

Room	Device Type	Product ID	MAC Address	IP Address	
1ain Room	Klimax DS	11184658	40000020012	172.20.4.223	
1ain Room	Klimax Kontrol	Unknown	N/A	N/A	
	nfigure Advanced Config	ure Diagnostics			
Device Room Name	nfigure Advanced Conlig	ure Diagnostics	Main Room		
Device Room Name Device Name		ure Diagnostics	Klimax DS		
Device Room Name Device Name Handset Com	mands Accepted	ure Diagnostics			
Device Room Name Device Name Handset Com Device Conne	mands Accepted	ure Diagnostics	Klimax DS Yes 1		
Device Room Name Device Name Handset Com Device Conne Klimax Kontrol	nands Accepted Incted on Input Connected	ure Diagnostics	Klimax DS Yes 1 Yes		
Device Room Name Device Name Handset Com Device Conne Klimax Kontrol CD12 Connec	nands Accepted incted on Input Connected ted		Klimax DS Yes 1 Yes No		Reboot
Device Room Name Device Name Handset Com Device Conne Klimax Kontrol CD12 Connec Auxillary Sour	nands Accepted incted on Input Connected ted		Klimax DS Yes 1 Yes	List	Reboot
Device Room Name Device Name Handset Comm Device Conne Klimax Kontrol CD12 Connec Auxillary Sour Display	nands Accepted scted on Input Connected ted ce Setup for LinnGui (Re		Klimax DS Yes 1 Yes No connection: Auxillary Source	List	Reboot
Device Room Name Device Name Handset Com Device Conne Klimax Kontrol CD12 Connec Davillary Sour Display Brightness (0:	nands Accepted icted on Input Connected ted ce Setup for LinnGui (Re Off, 100: Full Brightness)		Klimax DS Yes 1 Yes No connection: Auxillary Source 100	List	Reboot
Device Room Name Device Name Handset Com Device Conne Klimax Kontrol CD12 Connec Auxillary Sour Display Brightness (0:	nands Accepted scted on Input Connected ted ce Setup for LinnGui (Re		Klimax DS Yes 1 Yes No connection: Auxillary Source	List	
Device Room Name Device Name Handset Com Device Conne Klimax Kontrol CD12 Connec Auxillary Sour Display Brightness (0:	nands Accepted icted on Input Connected ted ce Setup for LinnGui (Re Off, 100: Full Brightness)		Klimax DS Yes 1 Yes No connection: Auxillary Source 100	List	Reboot Restore Defaults

8. For systems with a Klimax Kontrol.

From the top window, select Klimax Kontrol. On the 'Advanced Configuration' tab you will see the current configuration settings for the unit. You are able to change the settings, if required.

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9. If a CD12 is part of the Klimax DS system, you can select it from the top window, and under the 'Advanced Configuration' tab make changes to its configuration.

INSTALLATION AND SETUP

9 FINAL STEPS

This section describes the final steps involved in getting the Klimax DS system up and running.

Final steps

- 1. Turn on the NAS.
- 2. Turn on the network switch and the wireless access point.
- 3. Wait for the NAS to finish booting.
- 4. Turn on the Klimax DS player and the rest of the hi-fi system.
- 5. Turn on the wireless control point and start the Linn GUI.
- 6. Follow the instructions in the *Operation* chapter of the Klimax DS owner's manual.

INSTALLATION AND SETUP

10 TECHNICAL SPECIFICATIONS

Date of introduction	August 2007
Туре	Digital stream player
Size	(H) 60 mm x (W) 350 mm x (D) 355 mm (H) 2.3 inches x (W) 15 inches x (D) 14.2 inches
Weight	10 kg 22 lb
Supported file types	WAV, FLAC
Audio sample rates	44.1 k, 48 k, 88.2 k, 96 k, 176.4 k, 192 k
Word depths	16 – 24 bits
Analogue audio outputs	Stereo RCA phono sockets, stereo XLR balanced audio outputs
Ethernet interface	100Base-T RJ45
Control protocol	Compatible with UPnP [™] media servers, UPnP [™] AV 1.0 control points
Local control	RS232 x 2 Luminous remote control handset 128 x 32 front panel display
Power supply	Switching power supply with auto-ranging (AC 100 – 120 V @ 50 – 60 Hz) (AC 220 – 240 V @ 50 – 60 Hz)
Power consumption	13 W

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