

MediaPOINTE® Products

Control Code Manual



January, 2015



©2015, MediaPOINTE, Inc.

All rights reserved. This document contains information that is proprietary to MediaPOINTE, Inc., the manufacturer of all MediaPOINTE® products. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form, or by any means, electronically, mechanically, by photocopying, or otherwise, without the prior written permission of MediaPOINTE, Inc. Nationally and internationally recognized trademarks and trade names are the property of their respective holders and are hereby acknowledged. MediaPOINTE® is a registered trademark of MediaPOINTE, Inc.

Disclaimer

The information in this document is believed to be accurate and reliable; however MediaPOINTE, Inc. assumes no responsibility or liability for any errors or inaccuracies that may appear in this document, nor for any infringements of patents or other rights of third parties resulting from its use. No license is granted under any patents or patent rights of MediaPOINTE, Inc.

This document was written by the Development Department of MediaPOINTE, Inc. We are fully committed to, and take pride in maintaining high quality documentation. We welcome and appreciate any comments or suggestions you may have regarding content, presentation, structure and distribution of this document. Please use the contact information below for all correspondence:

Development Department

MediaPOINTE, Inc.
667 Rancho Conejo Blvd.
Newbury Park, CA 91320 USA
support@MediaPOINTE.com

Safety Precautions

For your protection, please read all related safety instructions, observe all warnings and precautions, and exercise common sense while operating this electronic equipment.

- Always place the unit on a stable cart, stand or table.
- Do not use the unit near water or sources of heat.
- Do not drop or shake the unit. Do not place or install the unit in environments where it can be dropped or shaken. Make sure the unit is powered off while being moved even for short distances.
- Observe the power requirements of the unit; if you are not sure of the power available, consult your local dealer or power company.
- When plugging into a power outlet, insert the plug firmly into the outlet. Route the power cord so as to avoid any activity that may result in fraying or other damage to the cord or the plug.
- Under no circumstances should you attempt to override the polarization or grounding protection on the plug.
- Do not overload wall outlets, integral convenience receptacles or extension cords.
- Unplug the unit from the wall before cleaning. Do not use liquid or aerosol cleaners.
- For proper ventilation, do not block the slots and openings. Do not install the unit in a location where the ventilation slots and openings can be plugged during everyday use.
- Do not place or install the unit under, on top of or near any heat-producing equipment (i.e. radiators, stoves, or amplifiers), or in a heated place.
- Unplug the unit during lightning storms, when it will not be used for extended periods of time, or before you have a scheduled power outage.

If the unit is visibly damaged either by not observing the precautions above or for any other reason, contact your local dealer immediately. If the unit does not operate to the specifications set forth in this user guide, or exhibits a distinct change in performance, this may be an indication of a problem needing repair.

Environmental Operating Limits of DMR

Operating Temperature: 0°C to 32°C (32°F to 90°F)

Relative Humidity: 10% to 90% non-condensing

Storage & Transport Temperature: -20°C to 80°C
(-4°F to 140°F)

Electrical requirements

Input: 100-240V ~50/60Hz

Service Support and Training

MediaPOINTE®, Inc. is committed to providing the service support and training needed to install, manage, and maintain your MediaPOINTE® equipment.

All MediaPOINTE® products are sold through a wide network of Authorized MediaPOINTE® Dealers. For help with your products, contact your local dealer for assistance first. If for any reason, you would like to contact MediaPOINTE® directly for information regarding service programs and extended warranty information, training, installation or usage, we are glad to be of assistance. You can contact us at the phone number listed below, or visit our website.

MediaPOINTE® Technical Support

Hours: 8:30 a.m. – 5:30 p.m. Pacific Standard Time

(866) 709-0444 TOLL FREE

(805) 214-7911 INTERNATIONAL

support@MediaPOINTE.com

Command Line Configuration from Web Portal

All MediaPOINTE products have a Command Line interface that can be accessed from Telnet or RS-232. A list of commands can be found in the External Control section of this manual.

RS-232

Starting a RS-232 session

On the back of MediaPOINTE products there is a single control port configured as a DTE supporting the RS-232 protocol. A Null-Modem cable should be used between the MediaPOINTE Product and the COM port on your PC - the pin-out is shown here.

DB-9 Female	Function	DB-9 Female
2	Rx to Tx	3
3	Tx to Rx	2
5	Signal Ground	5

Terminal session settings required for RS-232 control are: 9600, 8, none, 1 with No Flow Control.

There is no password protection on this interface and, by default; the RS-232 port is enabled however the administrator has the ability to disable the port from the Web portal.

Telnet (TCP/IP)

The Telnet port by default is not enabled. To turn on Telnet control, set the Telnet port number (typically Port 23) and check the COM port enable checkbox. A password challenge to the Telnet session can be enabled by entering a password in the Password for TCP/IP connection text box. If a password is not desired on the Telnet session, leave the text box blank.

Starting a Telnet session

The telnet client within MediaPOINTE products provides access to the Command Line Interface through the TCP/IP protocol. By default, telnet is disabled but can be activated from the Web portal with an optional password. The available commands are the same as listed in the RS-232 section.

To access the telnet client, start an MS_DOS session on your computer and enter:

```
telnet <ipaddress>
```

Once connected to the MediaPOINTE Product, a connect message will be displayed.

```
Welcome to MediaPOINTE
Password: _
```

Once logged in, type 'help' or '?' for a list of commands.

Terminal Emulation

The terminal session should support the VT100 terminal protocol. There should be the ability to provide error correction (i.e., backspace will need to be supported). Echo back to the terminal session should be active upon login.

Upon the establishment of a command line session, the product series welcome should be seen and a password prompt should be provided as detailed below:

```
Welcome to MediaPOINTE
Password: _
```

Command Argument Syntax

MediaPOINTE products distinguish between lower and upper case, for command syntax except where a password is specified, (The DMR series command line uses all lower case however; some command line parameters may require capitalization i.e... {defaultprofile "XGA"})

Required parameters are specified with <> and are mandatory for acceptable syntax. Parameter default settings are specified by {}.

The MediaPOINTE Product response for an accepted command will be an OK followed by a confirmation of the command being set and the value of the new parameter preceded by an asterisk (* loop on). If the command format is not followed, an ERROR will be returned.

```
Example1:
audiogain 77
OK
```

```
* audiogain 77
```

```
Example2:
audioga1n 77
ERROR
```

Command Format

To Format the formatting of a particular a command simply type the command followed by a question mark. The command syntax will be provided with a description of each parameter:

```
cli ?
usage: cli telnet <on/off>
or: cli serial <on/off>
```

```
playstatus ?
usage: playstatus
```

```
Valid states include:
Yes ..... the MediaPOINTE Product is
playing content.
No ..... the MediaPOINTE Product is not
currently playing content.
```

Command Status

To Format the current status of a particular command simply type the command. The current settings for each parameter will be provided:

```
cli
* cli telnet on
* cli serial on
```

Remote Emulation

Remote key emulation for the purpose of menu navigation should only have efficacy when the OSD menu is displayed on the screen.

command	parameter	description
audiogain	<0..100>	<p>Adjust the audio gain level for the MediaPOINTE Product input. Note that the reported level adjustment may differ from the number requested but will have the correct gain level.</p> <p>1 = audiogain 0 (off) 100 = audiogain 100 (max.)</p> <p><u>Format:</u> audiogain ? usage: audiogain <0..100></p> <p><u>Status:</u> audiogain OK * audiogain 44</p> <p><u>Example:</u> audiogain 76 OK * audiogain 76</p>
author	<on/{off}>	<p>Enables or disables password checking on the author login. Author rights are required to access or change any of the MediaPOINTE Product recording settings. The password for author may be set via the web portal. By default, security on the author login is disabled.</p> <p><u>Format:</u> author ? usage: author <on/off></p> <p><u>Status:</u> author * author off</p> <p><u>Example:</u> author on OK * author on</p>
bye / quit		Closes the current telnet / terminal session.

command	parameter	description
cli	telnet <on/{off}> serial <{on}/off>	<p>Enable or disable the MediaPOINTE Product Command Line Interface (CLI) for TCP/IP (Telnet) or serial (RS-232) control.</p> <p><u>Format:</u> cli ? usage: cli telnet <on/off> or: cli serial <on/off></p> <p><u>Status:</u> cli OK * cli telnet off * cli serial on</p> <p><u>Example:</u> cli telnet on OK * cli telnet on * cli serial on</p>
copyme	usb <"path"/latest> dvd <"path"/latest>	<p>Copy recorded media to USB or burn to DVD. Can be either the most recently recorded media or a specific file named by its full path.</p> <p><u>Format:</u> copyme ? usage: copyme usb <"path"/latest> or: copyme dvd <"path"/latest></p> <p><u>Examples:</u> copyme usb "/Sales/Northwest09" OK</p> <p>copyme dvd latest OK</p>
createdir	<"path">	<p>Create a new directory on the MediaPOINTE Product hard disk. Path is specified as the full path starting from root, so it must begin with a forward slash (/). Path names may not contain any of the following characters: *? " ' () + \</p> <p><u>Format:</u> createdir ? usage: createdir <"path"></p> <p><u>Example:</u> createdir "/demos/testing" OK</p>

command	parameter	description
defaultprofile	<"profile name">	<p>Set the default profile activated for sessions started via the front keypad, IR remote, or contact closure port.</p> <p><u>Format:</u> defaultprofile ? usage: defaultprofile <"profile name"></p> <p><u>Status:</u> defaultprofile OK</p> <p>* defaultprofile S-Video</p> <p><u>Example:</u> defaultprofile "Meetings" OK</p> <p>* defaultprofile "Meetings"</p>
displayratio	<4x3/16x9>	<p>Set the aspect ratio of the MediaPOINTE Product's local video output.</p> <p>Aspect ratio options include: standard = 4 x 3 format wide = 16 x 9 format</p> <p><u>Format:</u> displayratio ? usage: displayratio <4x3/16x9></p> <p><u>Status:</u> displayratio OK</p> <p>* displayratio 16x9</p> <p><u>Example:</u> displayratio 4x3 OK</p> <p>* displayratio 4x3</p>
file info	<filename>	<p>Gives information about a file</p> <p><u>Format:</u> fileinfo ? usage: fileinfo <filename></p> <p><u>Example:</u> Fileinfo /james OK</p> <p>*james.mp4 2183287 640x480 00:00:25 673kb/s</p>

command	parameter	description
help ?	[command]	<p>Report the syntax for the given command or a list of all commands if no argument is given.</p> <p><u>Format:</u> help ? usage: help [command] or: [command] ?</p> <p><u>Example:</u> help OK audiogain author bye quit</p>
input		<p>Report which video input is currently displayed on the DMR series local output.</p> <p><u>Format:</u> input ? usage: input</p> <p><u>Example:</u> input OK *content dvi</p>
ipassign	<dhcp/{static}>	<p>Set the IP assignment method for the DMR series.</p> <p>dhcp = receive a dynamic IP address on the network static = force a static IP address</p> <p><u>Format:</u> ipassign ? usage: ipassign <dhcp/static></p> <p><u>Status:</u> ipassign OK * ipassign static</p> <p><u>Example:</u> ipassign dhcp OK * ipassign dhcp</p>

command	parameter	description
ipset	a <address> s <subnet> g <gateway> d1 <primary dns> d2 <secondary dns>	Set static IP address settings for the LAN interface. This address is only used if ipassign static was previously issued. Format: ipset ? usage: ipset a <address> or: ipset s <subnet> or: ipset g <gateway> or: ipset d1 <primary dns> or: ipset d2 <secondary dns> <u>Status:</u> ipset OK * address 192.168.1.207 * subnet 255.255.255.0 * gateway 192.168.1.1 * dns1 192.168.1.202 * dns2 192.168.1.218 <u>Example1:</u> ipset a 192.168.1.44 OK* ipset a 192.168.1.44

key	<remote control button>	<p>Simulate a button press on the IR remote control or keypad. The following keys are available with the designated function:</p> <p>The following nine keys are applicable to all MediaPOINTE products.</p> <p>stop Stop playback play Start playback rec Start a recording/streaming session pause Pause playback forward Skip forward during playback back Skip backward during playback mute Audio input mute during recording vol+ Increase playback volume vol- Decrease playback volume f1 Reserved f2 Reserved f3 Reserved eject Eject DVD menu Bring up on-screen display (OSD) left Cursor left right Cursor right up Cursor up down Cursor down enter Select highlighted item 0 - 9 Reserved * Reserved # Reserved</p> <p><u>Format:</u> key ? usage: key <remote control button></p> <p><u>Example:</u> key stop OK</p>
-----	-------------------------	--

command	parameter	description
limit	<{delete}/alert>	<p>Set the action to be taken when the MediaPOINTE Product reaches its storage capacity limit.</p> <p>delete = oldest media is automatically deleted to make room for new recordings</p> <p>alert = web portal will display a message indicating that storage space is low</p> <p><u>Format:</u> limit ? usage: limit <delete/alert></p> <p><u>Status:</u> limit OK * limit delete</p> <p><u>Example:</u> limit alert OK * limit alert</p>
listfiles		<p>Report a listing of all files stored on the unit. Each file will be listed with its entire folder path. The listing can be reduced to only display recently recorded media.</p> <p><u>Format:</u> listfiles ? usage: listfiles [recent]</p> <p><u>Status:</u> listfiles OK * /marketing/announcement01 * /marketing/announcement02 * /marketing/fortradeshow0506 * /sales//week1mtg * /sales/ week2mtg * /sales/ week3mtg * /sales/reports/Q1reportpt1 * /sales/reports/Q1reportpt2</p>

listprofiles		<p>Report a listing of all profiles configured on the unit.</p> <p><u>Format:</u> listprofiles ? usage: listprofiles</p> <p><u>Status:</u> listprofiles OK * Composite * S-Video * XGA+ * DVI+</p> <p>+ <i>Designates a profile only available on the DMR HD</i></p>
--------------	--	--

command	parameter	description
log	<n> <on/{off}>	<p>Enable or disable logging for the specified service. <n> represents one of the following logs:</p> <ul style="list-style-type: none"> 1 = event logging 2 = failed login attempts 3 = SMTP mail logging 4 = FTP logging all = all logs are enabled <p><u>Format:</u> log ? usage: log <n> <on/off></p> <p><u>Status:</u> log * log 1 on * log 2 on * log 3 off * log 4 on</p> <p><u>Example:</u> log 2 on OK * log 2 on * log 3 on</p>
micmute	<on/{off}>	<p>Mute or unmute incoming audio.</p> <p><u>Format:</u> micmute ? usage: micmute <on/off></p> <p><u>Status:</u> micmute OK *micmute off</p> <p><u>Example:</u> micmute on OK * micmute on</p>

command	parameter	description
multicast	<on/off>	<p>Enable or disable multicast streaming while leaving Unicast streaming enabled.</p> <p><u>Format:</u> multicast ? usage: multicast <on/off></p> <p><u>Status:</u> Multicast OK *multicast off</p> <p><u>Example:</u> Multicast off OK *multicast off</p>
multicast_ttl	<1/5/10/15>	<p>Change the TTL for multicast packets</p> <p><u>Format:</u> Multicast_ttl ? usage: multicast_ttl <1/5/10/15></p> <p><u>Status:</u> multicast_ttl OK *multicast_ttl 1</p> <p><u>Example:</u> Multicast_ttl 5 OK *multicast-ttl 6</p>

command	parameter	description
notify	<p><on/{off}></p> <p><n> <on/{off}></p>	<p>Enable or disable mail notifications for the specified event. If no event is specified, a global enable or disable for notifications is assumed. If notifications are globally disabled, then no mails will be sent for individually enabled events. <n> represents one of the following events:</p> <p>1 = System update successful 2 = System update failed 3 = System reboot 4 = Session start 5 = Session end 6 = Hard disk full 7 = DVD burn successful 8 = DVD burn failed all = all notifications</p> <p><u>Format:</u> notify ? usage: notify <n> <on/off></p> <p><u>Status:</u> notify OK * notify on * notify 1 on * notify 2 on * notify 3 off * notify 4 on * notify 5 on * notify 6 off * notify 7 off * notify 8 on</p> <p><u>Example:</u> notify 2 on OK * notify 2 on</p>

command	parameter	description														
netstat		<p>Report the status of the network interface.</p> <p><u>Format:</u> netstat ? usage: netstat</p> <p><u>Status:</u> netstat OK†</p> <table border="0"> <tr> <td>Assignment</td> <td>DHCP</td> </tr> <tr> <td>Active IP address</td> <td>192.168.1.59</td> </tr> <tr> <td>Active subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Active gateway address</td> <td>192.168.1.1</td> </tr> <tr> <td>Primary DNS</td> <td>192.168.1.202</td> </tr> <tr> <td>Secondary DNS</td> <td>192.168.1.218</td> </tr> <tr> <td>MAC address</td> <td>00:03:1d:00:00:00</td> </tr> </table> <p>†Note that status messages from this command are NOT prefixed by an asterisk (*).</p>	Assignment	DHCP	Active IP address	192.168.1.59	Active subnet mask	255.255.255.0	Active gateway address	192.168.1.1	Primary DNS	192.168.1.202	Secondary DNS	192.168.1.218	MAC address	00:03:1d:00:00:00
Assignment	DHCP															
Active IP address	192.168.1.59															
Active subnet mask	255.255.255.0															
Active gateway address	192.168.1.1															
Primary DNS	192.168.1.202															
Secondary DNS	192.168.1.218															
MAC address	00:03:1d:00:00:00															
ntp	<p><on/off></p> <p><s1/s2/s3> <server ip or name></p>	<p>Enable or disable time synchronization to an NTP server. Set the IP address or name of up to three servers to synchronize with.</p> <p><u>Format:</u> ntp ? usage: ntp <s1/s2/s3> <server IP or name></p> <p><u>Status:</u> ntp OK * off * s1 192.168.1.202 * s2 * s3</p> <p><u>Example:</u> ntp on OK * on * s1 192.168.1.202 * s2 * s3</p>														

command	parameter	description
play	<folder path>	<p>Play media back on the local display of the MediaPOINTE Product. The behavior of this command depends on the format used:</p> <p><u>Format:</u> play ? usage: play <"file path"> or: play c <ip> or: play m <"file path"></p> <p>play <"file path"> Play media stored locally on the DMR</p> <p>play c <ip> Play live content from the specified channel.</p> <p>play m <"file path"> Play media stored on a USB thumb drive.</p> <p><u>Example:</u> play "/marketing/Announcement1" OK * playing</p>
playstatus		<p>Reports the playback status of the MediaPOINTE Product. Either yes or no will be returned to indicate media is playing on the MediaPOINTE Product's local <u>output</u>.</p> <p><u>Format:</u> playstatus ? usage: playstatus</p> <p><u>Status:</u> playstatus OK * playstatus no</p>
reboot		<p>Performs a clean shutdown of the MediaPOINTE Product then initiates a restart.</p> <p><u>Format:</u> reboot ? usage: reboot</p> <p><u>Example:</u> reboot OK</p>

command	parameter	description
record	<on/off> <"profile name"> <"media path"> <"profile"> <"media path">	<p>Start or stop a recording/streaming session on the MediaPOINTE Product. The behavior of this command depends on the format used.</p> <p><u>Format:</u> record ? usage: record <on/off/profile name/media path></p> <p>record Start a session using the default profile.</p> <p>record on Start a session using the default profile.</p> <p>record off Stop the session.</p> <p>record "profile name" Start a session using the named profile. Profile names are case-sensitive. Use the listprofiles command for a list of available profiles.</p> <p>record "media path" Start a session using the default profile, but store the archived file in the path named by "media path". The full pathname including a leading '/' and the name of the file to record to should be specified.</p> <p>record "profile name" "media path" Start a session using the named profile, but store the archived file in the path named by "media path".</p> <p><u>Status:</u> status OK * recording & streaming</p> <p><u>Examples:</u> record OK * ready</p> <p>record /Meetings/Wed-Apr-29-2014 OK * ready</p> <p>record "Camera" /security/0001 OK * ready</p>

<p>record/pause</p>		<p>The record/pause command enables a user to Pause a Recording and then resume the recording when needed. The pause command is only available on Archive files or files in which streaming has not been selected. The record/pause command is implemented in the CLI at s/w 5.3-126 and above. Commands pertaining to this are:</p> <p>record to start recording with the default profile</p> <p>record pause to pause the recording</p> <p>record resume to re-start the recording</p> <p>record off to stop the recording</p>
---------------------	--	---

command	parameter	description
rename	<fullpath1> <fullpath2>	<p>Rename an archived file</p> <p>Format: Rename ? Usage: rename <fullpath1> <fullpath2></p> <p><u>Example:</u> Rename /james /bob</p>
resetconf		<p>Resets the passwords and network settings on the DMR back to the factory default. This will not delete any user content from the DMR.</p> <p>The default administrator password is MediaPOINTE.</p> <p>The default IP address is 192.168.1.253, the default subnet mask is 255.255.255.0, and the default gateway address is 192.168.1.1.</p> <p>Format: resetconf ? usage: resetconf</p> <p><u>Example:</u> resetconf OK</p>
shutdown		<p>Perform a complete shutdown of the MediaPOINTE Product. This will power down the MediaPOINTE Product and prevent any further control until the unit is powered back on.</p> <p>Format: shutdown ? usage: shutdown</p> <p><u>Example:</u> shutdown OK</p>

smtp	<on/off>	<p>Enable or disable the use of an SMTP server to send email notifications. The actual server settings must be configured via the web portal.</p> <p><u>Format:</u> smtp ? usage: smtp <on/off></p> <p><u>Status:</u> smtp OK * smtp off</p> <p><u>Example:</u> smtp on OK * smtp on</p>
------	----------	---

command	parameter	description
status		<p>Reports the operational status of the MediaPOINTE Product, such as recording, streaming, or playing.</p> <p><u>Format:</u> status ? usage: status</p> <p><u>Status:</u> status OK† * busy MediaPOINTE Product is not ready to encode. * ready Ready to encode. * recording Currently recording content. * streaming Currently streaming content. * recording & streaming Recording and streaming content. * indexing Indexing content (unable to encode). * playing Playing content. * paused Content is paused on screen.</p> <p>†See Status State Response chart at the end of this document for a list of feedback responses for various states.</p>

sysinfo		<p>Reports information about the system.</p> <p><u>Format:</u> sysinfo ? usage: sysinfo</p> <p><u>Status:</u> sysinfo OK</p> <p>Name DMR Version B5.3 Serial no 09-00000 MxTVer 1168 DMxVer 32100 Rel date Sys date 2014-05-11 14:07:33 Time zone America/Los_Angeles Sys name MediaPOINTE MAC address 00:03:1d:00:00:00 Assignment STATIC IP address 192.168.1.253 Subnet mask 255.255.255.0 Gateway address 192.168.1.1 Disk space available 443.66 GB Total media files 30</p>
---------	--	--

command	parameter	description
test	<n>	<p>Enable one of the on-screen test video images or audio tones for 10 seconds. The live video input sources may also be tested. Test media is specified as:</p> <p>a1 = 300 Hz audio tone a2 = 3 kHz audio tone a3 = 7 kHz audio tone a4 = 22 kHz audio tone v1 = Contrast graphic v2 = Color bars v3 = Landscape image v1s = Video 1 S-Video v1c = Video 1 Composite cd† = Content DVI cv† = Content VGA off = Stop the active test immediately</p> <p><u>Format:</u> test ? usage: test <n></p> <p><u>Example:</u> test v3 OK</p> <p>† Designates an input only available on the DMR HD</p>
usersec	<on/{off}>	<p>Enables or disables password checking on the user login. User rights limit access to playback of live or archived content. The password for user may be set via the web portal. By default, security on the user login is disabled.</p> <p><u>Format:</u> usersec ? usage: usersec <on/off></p> <p><u>Status:</u> usersec OK * usersec off</p> <p><u>Example:</u> usersec on OK * usersec on</p>

command	parameter	description
volume	<0...100>	<p>Set the volume level for audio output. Note that the reported level adjustment may differ from the number requested but will have the correct volume level.</p> <p>0 = mute 100 = maximum</p> <p><u>Format:</u> volume ? usage: volume <1..100></p> <p><u>Status:</u> volume OK * volume 80</p> <p><u>Example:</u> volume 55 OK * volume 54</p>