Quick Set-Up Instructions – RC1000

The RC1000 can be configured via either USB or via the RJ45 Ethernet connection with WinDiscovery for use with either TCDS (SMPTE) time code displays, NTDS (Network Time Displays) from Masterclock.

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Quick-Start Instructions

Keep the power disconnected until the last step.

Make any desired input and output connections to the DB25 connector labeled CONTROL using either your own cable or an optional DB25 to terminal block breakout adapter (included with your RC1000). See the "Connections" section of your user manual for additional details and pinout for the DB25 connector.











Connect the RC1000 device to your LAN (Local Area Network) hub/router/switch using Cat5 cable making the connection to the RJ45 connector labeled ETHERNET.

Apply power: insert the supplied AC/DC power supply module into an appropriate AC power source and the DC power connector into the male Switchcraft-style locking power socket on the rear of the unit labeled DC IN +8 to 28 VDC.

Status LEDs

Monitor the front panel display for power up status. When power is first applied the initial sequence of the front panel LEDs are:

• Chan A and Chan B, 6-digit LEDs will show all 8s, then will display time and/or date according to the settings the user has made.

Configuration

The RC1000 is configured over the network via software control using either Telnet, SSH or WinDiscovery.

The device may be configured via USB if using WinDiscovery. (Note: If configuring via USB, first install the included driver.)

Use the WinDiscovery application provided to set initial configurations for these devices.

To configure your RC1000 via WinDiscovery:

 Install and open included WinDiscovery software.
 Click [Discover]. A list of device groups will be displayed in the left pane of the WinDiscovery window. RC1000 devices are listed under 'RC1000 Controller".

Known devices:]	20.000		
CLDNTD Displays CLKNTD Clocks CRL Bell Ringer GRR1000 Master Reference GRR5000 Master Reference MC-ECC CS-3 & CS-5 Generator MFD Multifunction Display NTDS Clocks NTDS Clocks NTP Clocks NTP Server RC1000 Controller RC600 Controller	Device Group	Count	
Discover Exit	Calibration 1	est Global Password	Discovery Options

To configure and manage a device,

right-click the device name and the drop-down menu appears. Click on a menu choice to open the window for that function. Use the [Save] and [OK] buttons to accept changes that you have made. Use the [Exit] button to exit the screen without applying changes.

3. Devices are password protected. You may enter a password for each device, or click on [Global Password] to only enter a password once.

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phone (USA and Canada): phone (international): email: online: 1-800-940-2248 +1-636-724-3666 sales@masterclock.com <u>www.masterclock.com</u>

NOTE: If you are having issues running WinDiscovery using Windows 7 or Windows 8, you may need to run the software in Compatability Mode.

• Right-click on WinDiscovery program in the Windows Start Menu, then click on [Properties].

• Select the Compatiblity tab. Check the box for compatiblity mode. Select WINXP SP3

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Factory-default password: public

WinDiscovery Tips

Configurable Options Time Reference Input Control Output Control Local Time Settings	Network Configuration Display Properties Communications Control Clock Control Settings	Firmware Device RC1000 -TCR -TCG	Version 5.2, 19 5.2, 19 5.2, 19	Serial Number 18288002 18288002 18288002
Daylight Saving Time Time Zone/Time Offset Apply	ind Close Cancel	Admi	Status nistrative Function	s

Network Configuration

- Click on [Network Configuration] from the Device Settings window.
- Network settings must be established for the clock to operate on the network.
- To use a static IP address, de-select the checkbox for "Automatically obtain network configuration from DHCP/BOOTP". You must enter the IP address,

netmask, gateway, primary DNS and also a secondary DNS.

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• A momentary press of the reset button will display the current IP address of the unit.

Device Name:	RC1000-A6	CF	i.
MAC Address:	00:21:32:01	I:A6:CF	
🗸 Automaticall	y obtain nel	work configuration	from DHCP/BOOTP
IPv	4 Address:	10.0.101.16	1
	Netmask:	255.255.252. 0	
	Gateway:	10.0.100.1	-
	DNS:	10.0.100.7	1

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Input Configuration

• The **[Input Control]** button provides access to the Input Control window, which provides buttons for NTP Client, and Time Code Reader

put Control	×
	OK
NTP Cli	ent
Time Code	Reader

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Enable IVTP client		OK
Query Ntp Server For	Time	Cancel
Listen For NTP via Bro	adcast Address (255.255.255.255)	
Listen For NTP via Mu	lticast Address	
Multicast Notes —]	
- Class D 224-239 - 224.0.1.1 recom - Broadcast is still unless authentic - Multicast IP add	.xxx.xxx.xxx imended enabled when using Multicast ation is used. ress to use is entered below.	
TP Server names		
Use NTP server pro	vided by the DHCP server	
(Checking this box m Secondary server to	ay cause your settings for the Primary an be overridden)	id/or
Primary NTP server:	10.0,100,26	
Secondary NTP Server:		
Ignore NTP response	when the alarm flag is set.	
icrosecond Offset		
Allows the user to specif	fy a fractional second offset to the NTP tin	ne stamp.

• Note: If the NTP server is not provided by the DHCP server, unclick the box "Use NTP server provided by the DHCP server"

The Time Code Reader will automatically detect and calibrate its automatic gain control circuit to the incoming time code signal, by default. The circuit is self-adjusting to changes in the input time code; However, you may adjust some of the calibration and detection circuit settings manually.

MOTE Time Code Collins	ОК	
MPTE Time Code Settings		
Ignore date on incoming time code.	Cancel	
 Date uses Leitch date encoding format. SMPTE 309M date encoding (either MMDDYY or MJD) Time precision class is ignored. Jam syncs 	Calibration for SMPTE or IRIG Auto - In this mode the device calibrates (finds the best gain) whenever locking to incoming time code. This can take	Pa
to incoming time code occur as needed.	from zero to 40 seconds, depending on type of time code.	
C Date uses SMPTE 309M encoding. (Time Zone information is included).	Saved - The device re-uses the gain found at previous calibration. This shortens the time to lock to 2 seconds, if successful. If the device is not locked when the timeout expires then it re-calibrates.	
(Time Zone information is not included.)	Manual - In this mode the user enters a gain level for the device to use when locking. This shortens the time to lock to < 2 seconds, if successful. If that gain cannot achieve lock then the device will remain underled	
RIG Time Code Settings	- Modo	
Ignore Day of Year and Year on incoming time code. (Time Code is IRIG-A, B or E with no Day Of Year and/or no IEEE 1344 year encoding)	Auto C Saved C Manual	
	86400 Seconds to wait before re-calibrating when lock lost in Saved mode. 1 to 86400 allowed.	
ncoming Time Code Reference	Collecto Neur Collecto investidado in conservado	
ិហាក	Calibrate Now Calibrate immediately in any mode.	
Incoming Time Code is UTC time.	19 Current Gain	
Local Incoming time code is Local Time. Make sure Daylight Saving Time and Time Zone/Time Offset parameters have been set in the Main Dialog box.	Enter Manual Gain, 1 to 255, where 255 is maximum gain	
Custom	Fractional second time code offset	
Incoming Time Code is offset from UTC by a custom value.	Nanosecond offset: 0	
Custom Settings	192 0	

Output Configuration

•

• The [Output Control] button provides access to the Output Control window,

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				ОК
Time Code Genera	ator A	Time Code Gen	erator B	
ne Dissemination Durir	ng Outage —			
🐔 Allow time server (N	VTP/IRIG/SMP	TE) during refere	nce outaç)es,
uration time server is a	allowed:	86400	seconds	(0 = forever)

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1 450	

which provides buttons for Time Code Generator Output.

Select [Timecode Generation] and select either [Time Code Generator A] or [Time Code Generator B]. You may now select the SMPTE time code to generate from that channel along with any additional encoding you would like to use. The time code may be generated in Local Time, UTC, or with a custom offset.

		Scheduled Time of Drop Frame Jam	ОК	
SMPTE 30 frames per second	•	HH MM	Cancel	
MPTE 24 frames per second MPTE 25 frames per second		0 0 -		
MPTE 30 frames per second		17	I P	Dag
MPTE extra encoding]	Jam Sync Drop Frame		Pag
MPTE extra encoding		Jam Sync Drop Frame		Pag
MPTE extra encoding SMPTE - Leitch date encoding		Jam Sync Drop Frame		Pag
MPTE extra encoding SMPTE - Leitch date encoding Include Masterclock, Inc SMPTE Control Bits: Locked/Not Locked to Reference		Jam Sync Drop Frame		Pag
MPTE urop Frame MPTE extra encoding MPTE - Leitch date encoding Include Masterclock, Inc SMPTE Control Bits: Locked/Not Locked to Reference Leap Second Pending Davidiph Saving Time (DST) in progress		Jam Sync Drop Frame		Pag
MPTE extra encoding MPTE extra encoding MPTE - Leitch date encoding Include Masterclock, Inc SMPTE Control Bits: Locked/Not Locked to Reference Leap Second Pending Daylight Saving Time (DST) in progress.		Jam Sync Drop Frame		Pag

Telnet and SNMP Configuration

Telnet Control		
	Telnet Control	<u></u>
SNMP Control		1
	Allow Telpet Configuration	ОК
	Allow reliter conliguration	Cancel
	Telnet Port: 23	-

• Telnet is disabled by default. To enable Telnet, under Device Setting click on **[Communications Control]** then click on **[Telnet Control]**, and click the checkbox to **"Allow Telnet Configuration**"

• To configure SNMP control, under Device Setting click on **[Communications Control]** then click on **[SNMP Control]**.

Contact: (not set) Start/Stop will be done aft Location: (not set) Trap Receivers Name: (not set) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Contact: (not set) Start/Stop will be done after Location: (not set) Trap Receivers Name: (not set) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SNMP Agent Status:	RUNNING		ST	ART	8			ST	OP
Location: (not set) Trap Receivers Name: (not set) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Location: (not set) Trap Receivers Name: (not set) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Contact:	(not set)	S	tart/St	top	will ł	be d	lone	afi	er s
Name: (not set) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <	Name: (not set) 0 0 0 0 0 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 <	Location:	(not set)		Trap	Rec	eive	ers			
Spaces not allowed. 1 0 0 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 .	Spaces not allowed. 1 0 0 0 . 2 0 0 0 . 0 . 0 Communities 3 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0	Name:	(not set)	0	0	35	0	19	0	3	0
Communities 2 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . <td< td=""><td>Communities 2 0 0 0 . 0 Public 3 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 .</td><td></td><td>Spaces not allowed.</td><td>1</td><td>0</td><td>38</td><td>0</td><td>3</td><td>0</td><td>×</td><td>0</td></td<>	Communities 2 0 0 0 . 0 Public 3 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 .		Spaces not allowed.	1	0	38	0	3	0	×	0
Communities 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <th< td=""><td>Communities 3 0 0 0 . 0 Public 4 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 .</td><td></td><td></td><td>2</td><td>0</td><td>х</td><td>Ö</td><td>•</td><td>0</td><td>×</td><td>0</td></th<>	Communities 3 0 0 0 . 0 Public 4 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 .			2	0	х	Ö	•	0	×	0
1 Private 4 0 . 0 . 0 .	1 Private 4 0 0 0 . 2 McJ8h\$t6!Qt^ 5 0 . 0 . .	0	Communities Public	3	0	X	Ö	•	0	х	0
	2 Mc38h\$t6!Qt^ 5 0 . 0 . 0 .	1	Private	4	0	4	0	(9	0	12	0
2 McJ8h\$t6!Qt^ 5 0 . 0 . 0 .	root Community	2	McJ8h\$t6!Qt^	5	0	-	0	(9	0	-	0
urrent Community: 2 Enter 0.0.0.0 to delete.	Enter 0.0.0 to delete.	urrent Community:	2		Enter	0.0	.0.0	to	dele	te.	
		A128/AES128									

Time Zone

• To configure Time Zone offset, under Device Settings click on

[Time Zone]. The pop-up window displays a list of time zones, including descriptions to help with the selection.

device. Note: dayight saving time is not conliguied here.	
(UTC-12:00) International Date Line West (UTC-11:00) Coordinated Universal Time-11 (UTC-10:00) Aleutian Islands (UTC-00) Hawaii (UTC-09:30) Marquesas Islands (UTC-09:00) Coordinated Universal Time-09 (UTC-09:00) Alaska (UTC-08:00) Pacific Time (US & Canada) (UTC-08:00) Baja California (UTC-08:00) Coordinated Universal Time-08	•
Bias: 06: 00: 00 🕂 🔽 Bias is negative?	

Daylight Saving Time

• To configure DST, under Device Settings, click [Daylight Saving Time].

Manually enter the daylight saving time rules or select a pre-configured option.

Daylight Bias 01:00:00		Disable daylight time
Time reference for daylight saving time Use UTC instead of local tir	shift ne	
Daylight saving time start	- Daylight saving	g time end
C First	First	
Second	C Second	
C Third	C Third	
C Fourth	C Fourth	
C Last	C Last	
C Absolute	C Absolute	
Day of week: Sunday 💌	Day of week:	Sunday 💌
Month: March 💌	Month:	November 💌
Day of month:	Day of month:	
Time: 02:00:00 +	Time:	02:00:00
US/Canada Standard	-	
EU standard		OK
Current Windows Setting		Cancel

Email (SMTP) Configuration

• To set up email alerts, under Device Setting, click on [Administrative Functions], then [Email

Configuration].

Display Options

• To adjust brightness levels or to customize date and time display, under

🗆 Auto Dim —	Brig	ht		Page
splay Options	C Time (12 hour) C Time (24 hour)	C Leading Zeros On C Leading Zeros Off	Time Display С UTC Ф Local	
splay Color			-	
Preset Values;	Green Blue			

Device Settings click on [Display Properties].

The **[Clock Control Settings]** button allows the configuration of the Multicast IP address to use along with the Port, and whether, or not to use CS-5 Encrypted packets on the network. Note: when utilizing CS-5 Encrypted packets, the Device ID of the unit is required on the receiver.

Common Configuration Questions

Static IP

• If using a static IP, make sure that under **[Input Control]** - **[NTP Client]** the following box is unchecked: "Use NTP server provided by the DHCP server"

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Reset Factory Default Configuration

In some situations (such as a lost password or removal of confidential information prior to sending the unit in for maintenance or repair service) it may be necessary to return the RC1000 to its factory default configuration. A recessed button labeled "RESET", located on the back of the unit performs this function.

To reset configuration to factory default:

- 1. Press and hold the "RESET" button.
- 2. Continue to press the "RESET" button until the unit reboots

research and the result of the state of the		Apply
CLDNTD12-71:E6 engr kev (28066) MDN29-72:33-cds (41799) MDN29-92:65 DAE +-Count (38854) MDN29-A3:08 DAE TCount (32073) NTDS24/8AL 73:F1 engr kev NTDS24/8AL-79:90 RED NTDS24/8AL-79:90 RED NTDS24/8AL-79:93 BLUE NTDS24/8AL-79:94 GREEN NTDS26/8AL-8D:FB DAE ChB NTDS26-00:00 NTDS26-00:00 NTDS26-00:00 NTDS26-00:00 NTDS26-00:00 NTDS26-00:00 NTDS26-00:00 NTDS26-00:00 NTDS26-A1:0E eng kev Test A (0) - Ch A NTDS26-AE: 13 NTDS26-AE: 14	All >	Cancel Channel C A C B
Multicast IP Address: 239 . 252 . 0	. 0 Port: 6168	

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Available Clocks (Current Assignment):		Assigned to this Device:		Apply	
VTDS26-AE:16 VTDS26-AE:17 VTDS26LUX-58:A4 VTDS26LUX-6D:8C eng kev TestB (0) VTDS26LUX-74:47 :Mike's Cube" VTDS26LUX-74:47 :Mike's Cube" VTDS26LUX-4E:75 VTDS46/12AL-9A:CA eng kev VTDS46/12AL-9A:CA eng kev VTDS46/12AL-9A:CA eng kev VTDS46/12AL-9A:CA eng kev VTDS49-9D:BB (0) VTDS49-9D:BB (0) VTDS84DF-AE:3A VTDS84DF-AE:31 VTDS84DF-AE:31 VTDS84DF-AE:3E VTDS84DF-AE:46 VTDS86/46-8A:87 eng kev	▲ All > > > < < < < < < < < < < < < < < < <	NTDS26-A1:0B eng kev TestB - Ch B NTDS26LUX-9F:82 eng kev TestA - Ch A	₹7	Cancel Channel Channel C B	Page
Aulticast IP Address: 239 . 252 . (0 . 0	Port: 6168			

Local Time: 09:27:13:03/29/2019 Current Reference: NTP Reference Status: Reference Locked Last Time Lock Lost (UTC): 14:08:52:03/29/2019 Last Time Lock Restored (UTC): 14:09:38:03/29/2019 PPS/PPM/PPH Input Source: N/A 10 MHz Source: N/A work NTP Type of Time Code Being Generated SMPTE @30 frames per sec. Raw Time Code: 20:00:00:08:00:80:00:00 Time To Generate UTC - No Offset IX Local Curstom	splay snapshot	UTC Time:	14:27:13 03/29/2019
Current Reference: NTP Reference: NTP Reference: Statistics: Reference: NTP Last Time Lock Lost (UTC): 14:08:52 03/29/2019 Last Time Lock Restored (UTC): 14:09:38 03/29/2019 PPS/PPM/PPH Input Source: N/A 10 MHz Source: N/A 10 MHz Source: N/A SMPTE @30 frames per sec. Raw Time Code: Raw Time Code: [20:00:00:08:00:80:00:00 Time To Generate UTC - No Offset IX Local Custom		Local Time:	09:27:13 03/29/2019
Reference Status: Reference Locked Last Time Lock Lost (UTC): 14:08:52 03/29/2019 Last Time Lock Restored (UTC): 14:09:38 03/29/2019 PPS/PPM/PPH Input Source: N/A 10 MHz Source: N/A 10 MHz Source: N/A SMPTE @30 frames per sec. Imme To Generate WOTC - No Offset UTC - No Offset Ix Local Custom	· · · · · ·	Current Reference:	NTP
Last Time Lock Lost (UTC): 14:08:52 03/29/2019 Last Time Lock Restored (UTC): 14:09:38 03/29/2019 PPS/PPM/PPH Input Source: N/A 10 MHz Source: N/A 10 MHz Source: N/A 10 MHz Source: N/A Type of Time Code Being Generated SMPTE @30 frames per sec. Raw Time Code: 20:00:00:08:00:80:00:00 Time To Generate UTC - No Offset UTC - No Offset Custom	**	Reference Status:	Reference Locked
Last Time Lock Restored (UTC): 14:09:38 03/29/2019 PPS/PPM/PPH Input Source: N/A 10 MHz Source: N/A twork NTP TCR TCG A TCG B Type of Time Code Being Generated SMPTE @30 frames per sec. Raw Time Code: 20:00:00:08:00:80:00:00 Time To Generate UTC - No Offset X Local Custom Custom		Last Time Lock Lost (UTC):	14:08:52 03/29/2019
PPS/PPM/PPH Input Source: N/A 10 MHz Source: N/A twork NTP Type of Time Code Being Generated SMPTE @30 frames per sec. Raw Time Code: 20:00:00:08:00:80:00:00 Time To Generate UTC - No Offset It Local Custom		Last Time Lock Restored (UTC):	14:09:38 03/29/2019
10 MHz Source: N/A twork NTP TCG A TCG B Type of Time Code Being Generated		PPS/PPM/PPH Input Source: N/A	
twork NTP TCR TCG A TCG B Type of Time Code Being Generated SMPTE @30 frames per sec. Raw Time Code: 20:00:00:08:00:80:00:00 Time To Generate UTC - No Offset X Local Custom		10 MHz Source: N/A	
	Raw Time Code: 20:00:00:08:00:80:00:00		
	Raw Time Code: 20:00:00:08:00:80:00:00 Time To Generate UTC - No Offset X Local Custom		

raiomi denecs. j		-		10
⊕ CS5-LAN	*	Device Group	Count	
🖶 GMR1000 Master Reference		NTDS24	16	
GMR5000 Master Reference		NTDS26	8	
MC-ECC CS-3 & CS-5 Generator		LUX26	6	
MFD Multifunction Display		NTDS46	1	
ANTDS Clocks		NTDS24/8alpha	5	
ia LUX26		NIDS46-2		
		NTDC04 Dust		
n NTDS24/8alpha		NTDS64 Dual	1	
m NTDS26 N		NTDS26/8aloha	2	
WITC26/Paloha	Ξ	NTDS84	4	
		NTDS46/12alpha	1	
HINIDS46/12alpha				
E NIDS46-2				
⊞-NIDS49				
t⊞-NTDS84				
⊫ nTDS84 Dual				
i≜-NTDS86/46				
i NTDS Clocks				
ntP Clocks	*			
		Si		
				1
Discover Exit		Calibration T	est Global Password Discov	very Uptions

	Set Time/Date
	Set Password
	Reset Device
	Install New Option
	Leap Second Date
E	Email Configuration
	Auxiliary Control
Set T	o Default Configu

Intuark Control			
letwork Control			
Control Source ID (1-65535, 0 = no au	diary control):	0	
Multicast IP Address: 239 . 252	. 0 . 0	Port:	6168
Communication Timeout (seconds):	0 (15 -	65535, 0 = no ti	meout)
ime Code Control			
✓ Under RC-500/600/1000 Control			
		OK	Cancel
			Concer
liary Control			
latuark Capitral			
letwork Control	2 B S		
Control Source ID (1-65535, 0 = no au	diliary control):	42703	
Multicast IP Address 239 252	0 0	Port:	6168
		(or c)	0100
Communication Timeout (seconds):	0 (15 -	65535, 0 = no ti	meout)
īme Code Control			
ime Code Control Under RC-500/600/1000 Control			

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