

# INSTRUCTION BULLETIN

## USER'S GUIDE ADDENDUM

# CyTime™

## Sequence of Events Recorder

### SER-3200 with Firmware ver. 1.10



SER-3200 firmware update ver. 1.10 adds new features to the CyTime Event Recorder plus other changes to improve usability and aesthetics, all based on customer feedback.

#### NTP time-source option

Time sync from NTP time server, with user-selectable polling interval and primary/secondary NTP time server IP addresses.

#### Manual time-set option

Set time manually (when no time reference is available—such as demo, training or test).

#### XML sockets now use port 8080

Changed XMLSocket TCP port (used by Flash Player) from 10000 to 8080, to facilitate access through a firewall.

#### New registers enable a single I/O Scanner read

Added duplicate registers (400253 to 400257) for selected time data to allow access as a contiguous block

#### Full standards compliance for all web pages

Adjusted header and syntax for 100% compliance to the XHTML 1.0 doctype per W3C, for optimal display in IE9 and other browsers.

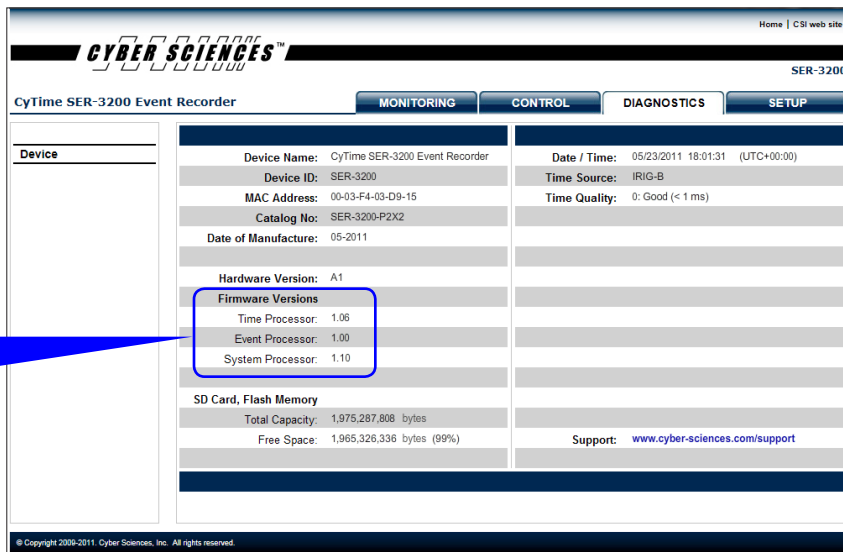
#### Faster access to Events web page

Added 16-events-per-page viewing option (now the page default) for the Events web page, accelerating page loading on initial access.

#### IMPORTANT:

This bulletin supplements the SER-3200 instruction bulletin dated Aug-2010, doc. no. IB-SER-01. Please refer to this document for mounting, wiring and setup.

Additional information about firmware ver. 1.10 is included in the revised Reference Guide, IB-SER-02, dated Jun-2011.



Firmware Versions	
Time Processor:	1.06
Event Processor:	1.00
System Processor:	1.10

Firmware version 1.10 components

Revised Diagnostics web page



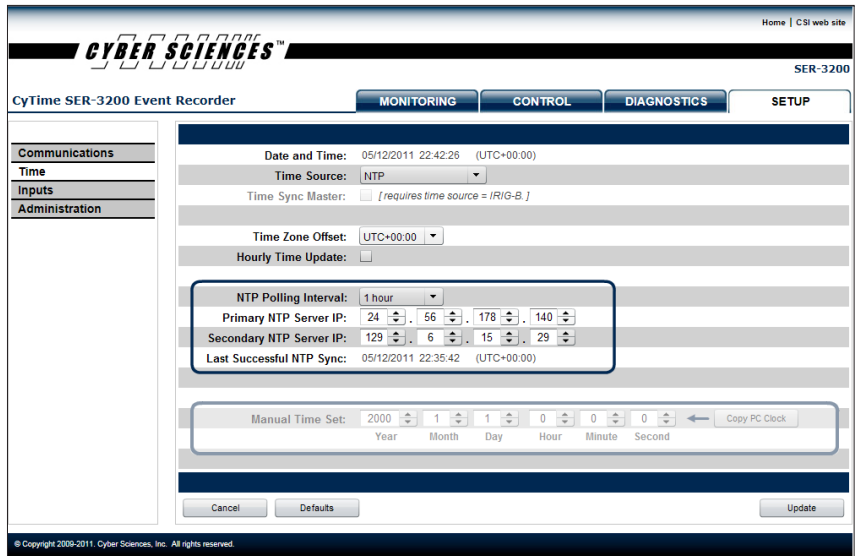
**Time Setup**

The principal change affecting the printed User's Guide involves the Time Setup web page, as shown below and described in the table.

**NOTE:**

Proper operation of time-sync via NTP network time server depends on correct Ethernet communications settings.

If NTP time-sync fails, first verify that both NTP server IP addresses are valid; then, confirm all device network settings, including default gateway IP address.



Revised Time Setup web page (with NTP selected)

**Time settings**

Option	Description	Available values	Default
Time source	Specifies the precision time source: – IRIG-B (unmodulated, or DCLS, type B006) – SER inter-device time-sync (time-sync slave) – NTP (network time server) ① – Manual time set (none)	IRIG-B, SER inter-device, NTP, or Manual (None)	IRIG-B
Time sync master	Indicates if this SER-3200 also serves as the master time source for one or more other SER-3200 units. (Applicable only if IRIG-B time source selected.)	enabled or disabled	disabled
Time zone offset	Offset in hours and minutes from Coordinated Universal Time (UTC) to adjust to local time zone.	-12:00 to +13:00	0 (UTC+00:00)
Hourly time update	If enabled, an event is recorded each hour with current date and time to confirm proper operation.	enabled or disabled	disabled
NTP polling interval	Interval used to update device clock from a network time server via NTP protocol.	1, 2, 4, 8, 12 hours, 1 day, or 1 week	1 hour (60 minutes)
NTP time server IP (Primary / Secondary)	IP addresses of NTP time servers. (If sync via primary time server fails, device tries secondary IP address.)	0.0.0.0 to 255.255.255.255	www.nist.gov (24.56.178.140) time-b.nist.gov (129.6.15.29)
Last NTP sync	Date/time of last successful NTP time sync	(read-only)	---
Manual time set	Allows the date and time to be set manually (or copied from the PC clock's current date and time).	Jan 01, 2000 through Dec 31, 2120	Jan 01, 2000 00:00:00

① Accuracy of NTP time reference over a network can vary greatly; therefore, when NTP is the time source, the Time Quality is always reported as "2: Poor (> 50 ms)" if NTP time-sync is successful, or "3: Bad (no sync)" if NTP time-sync fails.

