January 5, 2012

WR300 Series Thermal Arreycorder

MAIN(Ver. 3.13), SUB(Ver. 2.20), IRIG(Ver. 1.00)   Release date: December 28, 2011

- Bug fixed
    1. The sampling time setting of 5 sec was not able to set from the PC.
       The IF command:MEM:SAMP was not able to set correctly when 5 sec was set from the PC.

MAIN(Ver. 3.12), SUB(Ver. 2.20), IRIG(Ver. 1.00)   Release date: November 2, 2010

- Bug fixed
    2. The scaling was not correct when the scaling of I/F command was received.

MAIN(Ver. 3.11), SUB(Ver. 2.20), IRIG(Ver. 1.00)   Release date: October 13, 2010

- Improvement
    1. Corresponds to the WR300 application software. (The firmware must be updated to this version when the WR300 application software is used.)
    2. The WR300 outputs more than one of the trigger bits for received data.
- Bug fixed
    1. The correct disk capacity was not replied when the WR300 received the "FILE:SPACE?" command.

MAIN(Ver. 3.10), SUB(Ver. 2.20), IRIG(Ver. 1.00)   Release date: June 13, 2008

- Bug fixed
    1. The each channel of ON/OFF menus were not displayed when replaying the specified channels.
    2. The disk access status was enabled always for the I/F when the disk menu was closed.

MAIN(Ver. 3.00), SUB(Ver. 2.20), IRIG(Ver. 1.00)   Release date: July 5, 2007

- Bug fixed
    1. There was incorrect processing for the data transfer to the printer therefore it could not output correct data sometimes. (Main)
    2. There was incorrect processing for the overlap process therefore the printer

could not print a part of wave. (Sub)

MAIN(Ver. 2.90), SUB(Ver. 2.10), IRIG(Ver. 1.00)   *Release date: April 4, 2007*

- Bug fixed
    1. The end point was possible to set to more than the recording width from the I/F command at the zone setting when it is formatting for the zone.

MAIN(Ver. 2.80), SUB(Ver. 2.10), IRIG(Ver. 1.00)   *Release date: February 21, 2007*

- Bug fixed
    1. The memory block setting did not load when read the memory setting file.
    2. The annotation character length was exceeded than 32 characters, therefore time and second of trigger annotation were missing.
    3. The sampling speed should be same as the paper feed speed when displaying the logic menu, but it was not same.

MAIN(Ver. 2.70), SUB(Ver. 2.10), IRIG(Ver. 1.00)   *Release date: June 30, 2006*

- Bug fixed
    1. When ":STAT: COND?" command was demanded, the state of the annotation print was not correctly output.
    2. The USB was hang-up sometimes when transmitting the data.
    3. It is started at the off print of the memory mode, and after the memory output had been stopped, it did not print in the direct mode.

MAIN(Ver. 2.60), SUB(Ver. 2.10), IRIG(Ver. 1.00)   *Release date: March 6, 2006*

- Bug fixed
    1. The settings were not memorized to the EPROM when the settings of annotation were changed from menu.
    2. The chart speed of annotation was not printed in the direct record mode when in the Japanese language mode. (Other language modes were printed correctly.)

MAIN(Ver. 2.51), SUB(Ver. 2.10), IRIG(Ver. 1.00)   *Release date: January 13, 2006*

- Bug fixed
    1. The message dialog was opened twice when the folder is copying.
       So, the memory was leaking at inside.

MAIN(Ver. 2.50), SUB(Ver. 2.10), IRIG(Ver. 1.00)   Release date: January 5, 2006

- Bug fixed
  1. Sometimes incorrect waveform was displayed at the OPS023 via a USB port.

MAIN(Ver. 2.40), SUB(Ver. 2.10), IRIG(Ver. 1.00)   Release date: December 21, 2005

- Bug fixed
  1. Sometimes file couldn't delete from the folder.

- Improvement
  1. The status indicator for the copying process is added.
  2. The default channels numbers of the direct saving for the 16-channel model was changed from the 8-channel to 16-channel.

MAIN(Ver. 2.30), SUB(Ver. 2.10), IRIG(Ver. 1.00) Release date: September 26, 2005

- Bug fixed
  1. Incorrect waveform was displayed when the copy menu is opened at the narrow size setting of direct X-Y mode.

MAIN(Ver. 2.23), SUB(Ver. 2.10), IRIG(Ver. 1.00)   Release date: July 13, 2005

- Bug fixed
  1. Incorrect characters were printed when the annotation character strings were sent from the I/F.

MAIN(Ver. 2.22), SUB(Ver. 2.10), IRIG(Ver. 1.00)   Release date: July 5, 2005

- Bug fixed
  1. The cursor off indicator for the replay mode displayed incorrect character when it is changed from "OFF" to "ON".
  2. Incorrect number was displayed for the installed logic AMPs when the saving channel number was changed at the direct saving of the HDD.
     (16-CH model only)

MAIN(Ver. 2.21), SUB(Ver. 2.10), IRIG(Ver. 1.00)   Release date: July 4, 2005

- Bug fixed
  1. The part of value for the X-T mode was displayed when the replay mode is changed from the X-T to the X-Y.
  2. The wrong screen was displayed at the replay mode when the copy key was

pressed twice and the channel select key was pressed after the calculation of statistics was performed.

● Improvement
1. The cursor off indicator for the replay mode changed from "Off" to "Cursor Off".
2. The procedure to the chart speeds setting was changed.
   Turn on the power while pressing the LOCAL and TRIGER keys to open the chart speed setting menu.

MAIN(Ver. 2.20), SUB(Ver. 2.10), IRIG(Ver. 1.00)   *Release date: June 22, 2005*

● Bug fixed
1. The cancel key couldn't use at the character string input dialog.
2. The printing contents are not renewed during recording when the new character string was sent at the flying annotation on mode..
3. The chart speed key responded when in the X-Y mode.
   The chart speed was indicated onto the status bar.
4. The recording destination displayed wrong name at the FFT mode and the compulsion memory mode that should display the RAM.
5. The displaying position for the unit was wrong when it is reading out by the axis monitor in the X-Y Narrow mode.
6. The chart speed was displayed when the X-Y mode data was loaded by the X-T screen mode. And then it displayed the wrong screen.
7. The writing status is not indicated when the stop key was pressed during direct saving to the PCMCIA card.
8. The logic trigger function wasn't worked sometimes for the 4-channels and 8-channels models.

● Improvement
1. Corresponds to the X-Y direct mode.
2. Unnecessary menu items were deleted from the X-Y displaying mode.
3. The contents of the X-Y format settings are memorized to the settings file.
4. The color setting of line for the X-Y waveform was added to the X-Y format settings menu.
5. The printer resistance-setting menu was renamed to the printer setting menu. And then printer chart speed setting menu was added to the printer setting

menu.

Note: The sub system firmware must have higher than version 2.00 when it is upgraded to this main system firmware.

MAIN(Ver. 2.14), SUB(Ver. 2.10), IRIG(Ver. 1.00)   Release date: April 5, 2005

- Bug fixed
    1. The disk full error report dialog deleted the waveform on the screen when saving the data directly at repeat trigger mode.

- Improvement
    1. The layout of the option menu was changed.
    2. The select menu for the USB mode is changed.
       Command to Communication
       USB Drive to Drive
    3. The USB Mass Storage Class is able to connect when it is in the idling mode and the menu is not open.
    4. The USB mode will not memorize to the EPROM.
       It always become to the communication mode when the power is turned on.

MAIN(Ver. 2.13), SUB(Ver. 2.10), IRIG(Ver. 1.00)   Release date: March 31, 2005

- Improvement
    1. Corresponds to the USB Mass Storage Class.
       The USB drive select menu is added in the option menu.

MAIN(Ver. 2.12), SUB(Ver. 2.10), IRIG(Ver. 1.00)   Release date: March 24, 2005

- Bug fixed
    1. There is no margin when the scale is printed.
    2. The preset menu was wrong at 8-channels model of the zone format mode.
    3. The MONITOR key responded at the FFT mode, and then displayed the wrong screen.

MAIN(Ver. 2.11), SUB(Ver. 2.10), IRIG(Ver. 1.00)   Release date: March 10, 2005

- Bug fixed
    1. It was printed out by the previous zooming span after the Y-axis readout is zooming.

2.   The scale indicator did not renew where displayed at the left side of the screen when the Y-axis readout is zooming.

3.   The scale indicator did not renew where displayed at the left side of the screen when the AMP key is operated.

4.   The position of the logic indicator of 4-channel model was wrong when the screen format is the 50 mm x 2 and the 25 mm x 4.

5.   The pen indicator displayed to wrong position when the zone preset of the format was changed at the wide screen mode.

6.   The IP address, the Subnet address and the port number became to zero when the firmware was upgraded.

7.   The pen indicator disappears when the waveform is replayed at the wide screen mode.

8.   Half of the triangle mark was not printed at the scale printing of the zone format when the zero position of indicator is bottom of the screen.

● Improvement

1.   The screen mode change function was added for the MONITOR key.

2.   The file settings for the auto saving and direct saving are memorized to the EPROM.

3.   The file name of the auto naming for the direct saving mode is changed from the serial numbering to the date and the serial numbering.

MAIN(Ver. 2.10), SUB(Ver. 2.10), IRIG(Ver. 1.00)   Release date: February 28, 2005

● Bug fixed

1.   When the data was saving directly to the PCMCA card, sometimes the stop trigger was not performed at the pre-trigger OFF mode.

2.   The title of index menu and selected item were not printed by hard copy function.

● Improvement

1.   Corresponds to division format for the printer.
     For the 200 mm head:
     200 mm x 1, 100 mm x 2, 50 mm x 4, 25 mm x 8, 12.5 mm x 16,
     160 mm x 1, 80 mm x 2, 40 mm x 4, 20 mm x 8, 10 mm x 160,
     100 mm x 1, 50 mm x 2, Zone
     For the 100 mm head:

100 mm x 1, 50 mm x 2, 25 mm x 4,

80 mm x 1, 40 mm x 2, 20 mm x 4,

50 mm x 1, 25 mm x 2, Zone

2. The format settings menu was added.
3. Corresponds to grid printing.
4. Corresponds to annotation printing.
5. The analog waveform printing position adjustment function was added.
6. The logic waveform printing position adjustment function was added.
7. Corresponds to display the screen grid.
8. The analog waveform screen position adjustment function was added.
9. The logic waveform screen position adjustment function was added.
10. Corresponds to display the waveform at all area of screen.

MAIN(Ver. 2.02), SUB(Ver. 2.02), IRIG(Ver. 1.00)   Release date: February 7, 2005

- Bug fixed
  1. When the chart speed was set 100 mm/s, the annotation was printed at two times long interval.
  2. When the 100 m Z folding paper was selected, it was possible to select 100 mm/s chart speed.

MAIN(Ver. 2.01), SUB(Ver. 2.01), IRIG(Ver. 1.00)   Release date: February 1, 2005

- Bug fixed
  1. When the logic unit is not installed, the logic channels number was printed.

MAIN(Ver. 2.00), SUB(Ver. 2.00), IRIG(Ver. 1.00)   Release date: January 25, 2005

- Improvement
  1. The default factory setting changed.

     Sampling speed: from 10 us to 1 ms.

     System annotation: from OFF to SYSTEM

     Logic recording zone: from OFF to Zone1, Zone2, Zone3, Zone4
  2. Operation of the position key changed.

     The position moves fast when the position key continues to press.
  3. Operation of the menu key changed.

     Before: The menu will be opened when the MENU key pressed.

     And then the menu will be closed when the MENU key pressed again.

     After: The menu will be opened when the MENU key pressed.

And then the menu item will be moved when the MENU key pressed again.

The menu will be closed when the CLOSE key pressed.

4. Expressions of the recording zone settings were changed.

It is changed from Preset 1, Preset2 etc. to 200 mm x 1, 100 mm x 2.

5. The menus are changed when in the replay mode.

The index colors were changed for the normal menu and the replay menu that to know the mode easily.

6. The key operations are added for the replay mode.

It became possible to change the mode A/B when the trigger key is pressed.

It became possible to change the Time/DIV when the V1/V2 key is pressed.

MAIN(Ver. 1.70), SUB(Ver. 1.30), IRIG(Ver. 1.00)   Release date: December 6, 2004

- Bug fixed

Sometimes the printer is not recognized when power on.

MAIN(Ver. 1.60), SUB(Ver. 1.30), IRIG(Ver. 1.00)   Release date: November 4, 2004

- Improvement of the data transfer speed

The data transfer speed using ":TRANS:OUTP:DATA?" is improved, the data transfer speed becomes about 1.5 times faster.

- Specification modification

Modified the IRIG time decoding for annotation print and display time to DATE: DDD HH:MM:SS.

- Modification of the problem

When the peak list and the overall are displaying, the peak list and overall displaying disappear when the copy key is pressed.

MAIN(Ver. 1.50), SUB(Ver. 1.30), IRIG(Ver. 1.00) Release date: September 22, 2004

- Modification of the problem

Thermometry was not correct at the thermocouple of E type. It must measure in the range of 100 mV, but it was measuring in the range of 50 mV. To measure in the range of 100 mV modified.

MAIN (Ver. 1.31), SUB (Ver. 1.30), IRIG (Ver. 1.00)   Release date: August 13, 2004

- Improvement

To display one column below decimal point at Fahrenheit improved.

- Modification of the problem

  When printing the list, the logic zone of D from A was printed regardless of the model of channels.
- Modification of the problem

  The upper limit and the lower limit of spans displayed opposite at the calculation setting menu.
- Modification of the problem

  When starting the replay, the scale value was not displayed.
- Modification of the problem

  The scale value was not corresponding during replaying the calculation of data.

MAIN (Ver. 1.30), SUB (Ver. 1.30), IRIG (Ver. 1.00)   Release date: July 26, 2004

- Modification of the problem in Setting Conditions

  It always turns to Direct Mode even after loading the Setting conditions set as Memory mode.
- Added the timing marker function
- Added function

  It corresponded to Fahrenheit.
- Added functions to the 100 mm printer and the 4CH model

  It corresponded to the 100 mm printer and the 4CH model.
- Improvement

  When the 200 mm printer is installed, logic zone changed to the 20 mm step.
- Improvement

  The 16-division pattern is added to the zone presets, and then the reversed 8-division pattern is deleted from the presets.
- Modification of the problem

  The access timing was changed for the PCMCIA card.
- Modification of the problem

  WR300 couldn't access to the smart media.
- Modification of the problem

  WR300 couldn't access to the Toshiba Hard Disk Drive.

MAIN (Ver. 1.20), SUB (Ver. 1.20), IRIG (Ver. 1.00)   Release date: July 26, 2004

- Improvement. When the WR300 has printed with 50 mm/sec, printing density was made dense.   Also, the density of annotation and grid printing was changed.
- Fixed a Bug. There is extra print wave when the WR300 is feeding at 50 mm/sec.

- Fixed a Bug. When changing chart speed with the menu, LED of under unit was not updated.
- Fixed a Bug. When pressing the chart unit key at 100 mm/sec, it becomes V1.

MAIN (Ver. 1.10), SUB (Ver. 1.00), IRIG (Ver. 1.00)   Release date: July 16, 2004

- Fixed a Bug regarding the "IF" command. Recorder paper feed will be two times long, when it was specified by the "IF" command.
- Fixed a Bug. Display of chart LED had become opposite between mm/s and mm/h.
- Fixed a Bug. Number of the key had become opposite between the 16-Ch model and 8-Ch model at test mode of keyboard.

MAIN (Ver. 1.00), SUB (Ver. 1.00), IRIG (Ver. 1.00)   Release date: July 12, 2004

- First release Version.