

## Release Note

This Release Note contains description on functions and signal files added or improved in TG700 Firmware Version 4.0. The Release Note also provides the considerations for using the TG700 mainframe and modules. You are recommended to read this Release Note before using the instrument.

### **Added Function in Version 4.0**

In Firmware Version 4.0, the following function is added:

The system memory of the TG700 is expanded as follows:

Standard: 16 MB    32 MB

Option FP: 32 MB    64 MB

This memory expansion allows you to use pre-installed signals in a wide variety of formats for the AWVG7. For Option FP, this allows you to download more pictures to the TG700 mainframe.

The HDVG7 supports 720 50p format.

SDP2000 (leader) is added in the Signal Library folder in the attachment CD-ROM. This software allows you to confirm parameters of a test signal.

Refer to the TG700 V4\_0 Signal Library(E).pdf file in the Signal Library¥Document folder for information on how to use the software.

*CAUTION: The TG700 mainframe with serial number J32xxx and above requires firmware version 4.0 and later. If you install a previous version (Version 1.0 to 3.5) by mistake, the instrument will not work properly.*

## **Addition and Improvement of Signal Files**

The following signals are added:

AWVG7

Test signals with the following formats; 1080 23p, 1080 24p, 1080 25p, 1080 29p, 1080 30p, 1080 50i, 720 23p, 720 24p, 720 25p, 720 29p, 720 30p, and 720 50p (GBR and YPbPr).

AVG7

The 525RT\_NS.DNL file is added in 525Beta format. When using the file, you can use the 100% Color Bars No Setup and 75% Color Bars No Setup signals by adding them to the COLOR BAR button.

SMPTE RP219 HD/SD compatible color bar signal library and ARIB multi-format color bar signal library standardized by ARIB STD-B28 are added in the attachment CD-ROM.

The following signals are changed:

HDVG7

Co-site Pulse (1080 25p), Equalize Test (1080 23p, 1080 23sF, and 1080 24sF)

SDI Matrix (1080 23p, 1080 23sF, and 1080 24sF)

PLL Test (1080 23p and 1080 23 sF)

40% Flat Field (720 24p, 720 25p, 720 30p, 720 50p, and 720 60p)

## **Addition of Sample Pictures**

Two kinds of pictures (Waterfall and Water-Lilies) are added in the attachment CD-ROM with the following formats:

AVG7

NTSC, NTSC No Setup, PAL, 525 Beta, 525 GBR, 525 YPbPr, 625 GBR, and 625 YPbPr

AWVG7

1080/Interlace/GBR, 1080/Interlace/YPbPr, 720p/GBR, and 720p/YPbPr

DVG7

525-270 and 625-270

HDVG7

1080/Interlace, 1080/Progressive, 1080/Segmented Frame, and 720p



Waterfall



Water-Lilies

Use the TG7 Comm application software included in the attachment CD-ROM to download the signal or picture files to the TG700 mainframe.

The sample picture files (.BMP and .PIC) for the AWWG7 are provided in the ZIP format. Convert these files into the BMP or PIC format with a zip software tool before using.

#### **Addition of Bitmap Files**

Bitmap files of 75% and 100% color bars are added with the following formats; 525-270 of the DVG7, 1080 of the AWWG7, and 1080 of the HDVG7. The rise and fall times of these color bars are adjusted. These can be used as a background when creating a bitmap overlaid with a logo or picture using a paint tool.

\* When overlaying a logo or picture, it is recommended that you limit the bandwidth of them properly using a filter feature of a paint tool not to occur large ringing.

*The following information notes certain non-intuitive instrument behaviors and describes limitation of the current release of the TG700 user interface application.*

#### **Caution in Using the TG7 Setup Software:**

You cannot perform the remote control and front panel operation of the TG700 mainframe simultaneously.

In the remote setup procedure, the setup resolution of timing clock delay is +/-1 clock.

In using setup commands of Black 2, 3 in the AGL7 Genlock, do not send the Black2 = HD sync (same as black3) and Black3 =BB (same as black2) commands simultaneously while Frame Reset 1 is set to 2.997Hz. This operation makes the Frame Reset 1 unstable. Should this occur, reset the system by recalling Power On Default or Preset.

You cannot control the AWVG7 signals with the following formats using the software; 720 25p YPbPr, 720 29p YPbPr, 720 30p YPbPr, and 720 50p YPbPr. In addition, some of added signals may not be displayed in the setup windows.

**Caution in Using the TG7 Comm Software:**

Do not change or delete the file name or folder name other than those downloaded by the user or signal files. It may cause the system error.

You can change the name of user files (Signal file, Sequence file, Preset file, etc.) after you download them. Turning OFF and ON the power to the system is necessary to reflect the change to the system, however.

**Caution in Resetting the Output Signal:**

When performed the re-read and/or re-setting of signal data such as Format Switching, Preset Recall or Signal Key Assign, signal output interruption or synchronization shock may occur.

**Caution in Recalling Preset:**

The caution message indicating any discrepancy existed in settings of the internal clock to be used in HDTV format is not indicated when you recalled a Preset.

**Caution in Creating a User Program with Remote Commands:**

When transmitted a command such as Format Switching or Preset Recall requiring some period of time before the command execution completed, be sure to transmit the next command after the completion of such command execution.

**Caution in Setting the Genlock Source to CW in the AGL7:**

If you change the frame reset period in the AGL7 Genlock module after the Genlock Source is set to CW, the Frame Reset may not be selected properly. Retry the setting of Frame Reset to CW, in this case.

**Caution in Setting Signal Key and Frame Picture Key Assignment:**

In assigning a downloaded signal to the front panel key, avoid assignment to any key of different format.

Do not perform key assignment to Signal Key of the signal currently output. Also, do not attempt key assignment while "No Signal Set Assigned" message is displayed. To change key assignment settings of OTHER Key, change the settings while a signal assigned to a key other than OTHER Key is output.

**Caution in Displaying the Alarm Status:**

In the alarm status display, the instrument displays an error message that has been detected in the past. In order to display the latest message, you need to access the other menu item and to return to the ALARM STATUS menu again.

**Caution in Editing an ID Text:**

You can erase the last character in the entered text using the blank character. However, if you re-edit the text after ending the text edit mode by pressing the ENTER key, you need to access the OVERLAY submenu (or the main menu) and to return to the ID TEXT submenu again.

**About Embedded Audio of the 720p Format Signal in the HDVG7 :**

Embedded audio except for 720 50p, 59.94p, and 60p formats are "UNCHECKD". Therefore, if you perform any of settings for embedded audio, the instrument may not output signals normally.

**720 23.98p and 24p Format Signals in the HDVG7 :**

When you enable embedded audio for 720 23.98p or 720 24p format signal, a Y channel error of a video signal occurs. This error does not occur when you disable embedded audio.