GMAN Manual
(Rev B - for GMAN V1.90 and later)

Common Functions
Saving Files
GMAN allows all text and settings to be saved to a file for later use. GMAN files have the extension of ".gmn". A file can be saved by either using the menu at the top of the screen and selecting "File" then "Save", or by clicking the *Save* button located on the toolbar (picture of a floppy disc).

Opening files
Once a file has been saved in the GMAN program, it can be easily opened any time. To open a file, either use the menu at the top of the screen, by clicking "File" then "Open", or click the *Open* button located on the toolbar (picture of a folder).

Justifying Text
Text in the text editor can be justified either left, right, or centered. To justify text, select a line to be justified using the text editor (see Highlighting Text), then click on the appropriate justification button located on the toolbar.

Changing Pages / Scroll Buttons
The GMAN software is based on having 99 separate pages of text. The various *scroll buttons* and *Page box* located on the bottom of the screen are used for changing pages. The "-10" and "+10" buttons quickly scroll backwards and forwards through the pages. The "Prev. Page" and "Next Page" buttons scroll backwards and forwards one page at a time. The "|<--   -->|" buttons quickly move to the first and last pages, while the "Page" box itself allows the page number to be directly keyed in.

Page Information
At the bottom of the "Text Editor" screen is an area that contains information about the current page and its associated SCT-50 titler. Some of these items are read only ("Titler Name") and other items can be changed; "Page" box, ("Selected" checkbox and "Address" box.

Page Number Box
This box shows the current page number that is being edited/viewed. This number changes when the "Scroll Buttons" are clicked or when keyboard values are entered. Its range is from 01 to 99.

Selected Checkbox
The "Selected" checkbox is used to select various pages for group type functions. With this feature, all "selected" pages may be cleared, have their associated SCT-50's cleared, or have the pages sent to the associated SCT-50(s). This is very useful for dealing with groups of titlers and working with pages that are not in consecutive order.

Address Box
This box is for entering the address of the SCT-50 that is to be associated with the current page. When the page is sent, all of the text and attribute settings are sent to the SCT-50 titler whose address matches the address specified in this box.

Note: If address 00 is entered in this box, the GMAN software will be in *Broadcast Mode* and the following message is displayed:

BROADCAST MODE – ALL SCT-50'S

In Broadcast Mode, all SCT-50's respond to the data sent from GMAN, even if they are disabled in GMAN. To prevent an SCT-50 from responding, it status needs   to be set to "OFFLINE" in the SCT-50's unit's own setup menu.

Titler Name Box

This box displays the user-defined name of the SCT-50 that is specified in the "Address" box. The names can be set/edited using the "Titler Names" tab.

Status Display

The status display shows information regarding the current status of the GMAN software, the comm. port, and the associated SCT-50 itself.

SCT Status

The "SCT Status" display shows information regarding the current state of the SCT-50 with the current address as specified in the "Address" box. There are 4 possible statuses, they are:

•**Online**-the SCT-50 is enabled, connected, and is communicating properly.

•**Offline**-the SCT-50 is enabled, but is disconnected or is not responding to communications.

•**Disabled**-the SCT-50 is disabled for communication. This can be changed in the "Titler Names and Enabling" list.

•**Working Offline**-the GMAN software is disabled from sending/receiving data through the comm. port. This can be changed in the Comm. port Selection.

Comm. Info

The "Comm. Info" display shows information regarding the current comm. port and communication status. If the "SCT Status" display shows the SCT-50 is online, then the "Comm. Info" display shows the current comm. port that is in use. If the "SCT Status" display shows the SCT-50 is offline, then the "Comm. Info" display either shows "No SCT Detected" or "Invalid Comm. port."

Prog. Info (Program Information)

The "Prog. Info" display shows information regarding operations being performed by the GMAN software. When attribute settings or text are sent, a message confirming that the action was completed is shown in this box.

SCT Version

The "SCT Version" display shows information regarding the current version of the associated SCT-50. The display either shows "3.30 and Above" or "Below 3.30" depending on what version has previously been selected in the "Titler Versions" list. If the "SCT Version" display is showing a version that is incorrect, it is important to go to the "Titler Versions" list and select the correct version.

Text Editor Screen

Text Editor

The GMAN text editor allows entry and editing of text for sending to a Horita SCT-50 titler or group of titlers. The editor itself is a line based editor with a screen layout of 9 lines of 20 characters each, the same as that of the SCT-50 video overlay display.

Typing Text

The GMAN text editor's functions are similar to those of most windows text editor programs, with the following exceptions:
- •When the end of a line is reached, the cursor does not automatically move to the beginning of the next line.
- •Only characters in the SCT-50 character set may be entered.

Typing Mode

The GMAN text editor has two typing modes: "Insert" and "Overtype". "Insert" mode allows insertion of characters, between other characters. When inserting characters the last character of the line is "pushed" off the end of the line and deleted. "Overtype" mode allows you to type over existing text.

Line Numbers

To the left of the text editor is a vertical column of numbers. These are the *line numbers*. The *line numbers* allow each line to be turned on or off individually by clicking them with the mouse. Each line has either a red or green background. A green background indicates that the line is turned on. A red background indicates that the line is turned off. When a line is turned off it will not appear on the SCT-50 screen, but can still be edited with the editor.

Highlighting Text

Text in the editor may be highlighted for performing various editing actions. Text may be highlighted two different ways: By clicking and holding the left mouse button, or by holding the shift key and using the arrow keys. With the exception of deleting text, all partial line highlights are treated as if the whole line were highlighted.

Cut, Copy, & Paste

The GMAN software allows cutting, copying, and pasting of text to and from the editor, using the associated GMAN icons at the top or the common usage of the Ctrl X-C-V keys. For simplicity; cutting, copying, or pasting operates on full lines of text only. Cutting, copying, or pasting of partial lines is not permitted. The mouse can be used to mark a text line, but not to perform cut/copy/paste functions.

Cutting Text

Copying Text

Pasting Text

Time & Date Display

The text editor can display the current time and date (from the SCT-50) in its window. The position and format of the time and date display exactly matches what is on the SCT-50 screen. When entering text with the time and/or date displayed, the cursor will not wrap around the time and/or date display. Text may be entered "behind" the time/date, but will not be seen on the editor or video overlay unless the time/date is moved.

Clearing the Editor

The "Clear Editor" function is used for clearing the text editor screen. There are four different methods to choose from. The clear function is irreversible so make sure you clear only what you want cleared. If the editor is cleared while in "Continuous" send mode, the SCT-50's screen will also be cleared.

Current

This option clears the current editor.

Selected

This option clears every editor page that has its "Selected" checkbox checked (at the bottom of the page). This allows you to work with only certain pages and clear only those pages.

Range

This option clears the editors on a range of pages, i.e. pages 1 to 15, and requires an entry in the "Range From/To" boxes

Range From/To Boxes

Enter the first page ("From" box) and last page ("To" box) of the editors that you wish to have cleared.

All

This option clears the editor on every page (1-99).

Clear Editor Button

With the appropriate option selected, use this button to carry out the "Clear Editor" function. When the editors are finished clearing, a message will appear in the "Status Display" confirming the operation is complete.

Clearing the SCT

The "Clear SCT" function is used to clear the screen(s) of the SCT-50(s). There are four different methods to choose from. The clear function is irreversible so make sure you clear only what you want to.

Current

This option clears the screen of the current SCT-50 as specified in the "Address" box (at bottom of screen).

Selected

This option clears the screen(s) of all SCT-50(s) that are associated with the pages that have their "Selected" checkbox checked.

Range

This option clears the screen(s) of a range of SCT-50(s), i.e. addresses 1 to 15 inclusive, and requires entries in the "Range From/To" boxes.

Range From/To Boxes

Enter the first address ("From" box) and last address ("To" box) of the SCT-50s on which you want the screen to be cleared.

All

This option clears the screen of every SCT-50 that is connected and enabled for communication.

Clear SCT Button

With the appropriate option selected, use this button to carry out the "Clear SCT" function. When the screen(s) are finished clearing, a message will appear in the "Status Display" confirming the operation is complete.

Sending the screen (Manual Send)

The "Send Screen" function is used to send text and attribute settings to the SCT-50(s). This function always sends the entire text screen but sends only attributes that have changed since the last send. There are four different send methods to choose from. If the SCT-50 associated with the page that is to be sent is disabled, the sending of that page is skipped.

Current

This option sends the text and attribute settings of the current page to the associated SCT-50.

Selected

This option sends the text and attribute settings of all pages that have the "Selected" checkbox checked to their associated SCT-50s.

Range

This option sends the text and settings of a range of pages to their associated SCT-50(s), i.e. pages 1 to 15 inclusive, and requires entries in the Range From/To boxes.

Range From/To Boxes

Enter the first page ("From" box) and last page ("To" box) that you want to send the text and attribute settings to the associated SCT-50 titler(s).

All

This option sends the text and settings of all pages to the associated SCT-50 titlers.

Send Button

With the appropriate option selected, use this button to carry out the "Send Screen" function. When sending of the text and attribute settings is finished, a message will appear in the "Status Display" confirming the operation is complete.

Cloning Text

The "Clone" function is used to copy the text of the current page to any other page or range of pages.

Range

Select this option to enable the "Range From/To" boxes for entry.

Range From/To Boxes

Enter the first page ("From" box) and last page ("To" box) that you want the text of the current page to be copied to.

Green/Red Line Numbers

Only the Line numbers in green are cloned, those in red are not cloned. This permits adding, removing, of changing a single line of text on multiple screens of text.

Clone button

With the desired range entered, use this button to copy the text. When the copy operation is finished, a message appears in the "Status Display" confirming the operation is complete.

Clone & Send Button

With the desired range entered, use this button to clone the text and then send it to the SCT-50 titler associated with the page it was cloned to. When the copy and send operation is finished, a message appears in the "Status Display" confirming the operation is complete.

Send Mode

The GMAN software supports three different "Send Modes". In all three "Send Modes" the "Send" button may be used to update the entire screen. This is referred to as a "Manual" send.

Manual

In "Manual" send mode, nothing is sent to an SCT-50 until the "Send" button is clicked. This mode is most useful for setting up multiple pages before sending them.

End of Line (EOL)

In "End Of Line" send mode, the current line is sent when the <Enter> key is pressed.

Continuous

In "Continuous" send mode, the GMAN software sends out every character as soon as it is typed. This applies only to characters typed after continuous send was selected. To update the entire screen, click the "Send" button.

Searching for Text

The GMAN software provides a search function for finding text in the editors of all 99 pages. The "Search for Text" function finds specific text located anywhere in the editor of any page. It is not context sensitive. A search for "IN" would find all locations of the letters "IN", even if they are part of a different word. This allows partial entry of search words without compromising the effectiveness of the search.

Search Text Entry Box

Enter the text that you wish to search for in this box. This text can include any characters in the SCT-50 character set, and can be up to 20 characters in length.

Find Button

After entering the search text, use this button to start the search. After the first occurrence is found, the button will say "Go To Next". Click again to find the next occurrence of the search text. The button will return to "Find" if the search text is modified in any way.

Search Status

The "Search Status" displays information about the current search. If the search text is not found, the search status will show "Text Not Found". If the search text is found, the search status will show "Occurrence X of Y" where X is the current occurrence you are at and Y is the total number of occurrences of the search string.

Setup Screen

The "Setup" screen is used to change the attribute settings of the SCT-50. Although all settings are sent on a continuous basis, in some cases it may be necessary to click the "Send Current" or "Send All" buttons to update the SCT-50 titlers settings. This is necessary when the address in the "Address" box is changed.

Display Attributes

This section contains all the options for changing the appearance of the SCT-50's display.

Display On/Off

Turns the SCT-50's display screen on or off

Character Color

Switches between white and black characters

Background On/Off

Turns character background on or off

Contrast

Switches between hi, medium, and low contrast settings

Vertical Size

Switches between vertical sizes 1x,2x,3x,4x,1s,and 2s. Vertical size 2s is available for SCT-50's with software version 3.30 and above.

Horizontal Size

Switches between horizontal sizes 1x,2x,3x, and 4x.

Display Position

Changes the position of the display horizontally and vertically. Each position has a range from 01 to 64. The display may also be moved by holding down the <Alt> key and using the arrow keys.

Time/Date

This section contains all the options and settings for configuring the internal time and date of the SCT-50. The GMAN software does not have its own clock, it receives its time from the SCT-50, to ensure that the software is displaying the same time as the SCT-50. If the software is unable to receive time from the SCT-50, it displays the selected time format in place of the time. The Status Display also shows a message stating "No Time Data Received". Because the GMAN text editor

is an exact representation of the screen, any changes made in the time/date section apply to the editor and to the screen.

Time Display On/Off

Turns the *time display* on or off

Time Display Position

Changes the position of the *time display*. The position indicates the character number that the time starts at. Position 001 is the first character on the first line, position 180 is the last character on the last line. The time position may also be changed by holding down <Alt>+<T> and using the arrow keys.

Time Display Format

For SCT-50 software version 3.30 and above there are 36 available time display formats. The GMAN software supports all of them and displays the time in the correct format in the text editor. For earlier SCT-50 software versions, only formats 2 and 3 are available.

Format Number

Indicates the number of the current *time format* (1-36)

Format Example

Shows an example what the selected time format will look like. The formats are displayed using the Windows standard time format. See table below.

hh	hours with leading zero
mm	minutes with leading zero
ss	seconds with leading zero
.t	tenths of seconds
AM	AM/PM display

Setting Time

The GMAN software provides 2 ways to set the time of the SCT-50 internal clock. Note that the GMAN SCT titler address can be temporarily set to "00", the   "Broadcast Mode", so that the time and date set commands synchronize multiple SCT-50 titlers time and date clocks.

Set Time Equal to PC

Sets the SCT-50's time to the current time in the computer

Set Time via Keyboard

Sets the SCT-50's time to a user defined time. Requires a valid time to be entered in the *time entry* box.

Time Entry Box

For entry of user-defined time. Valid time is 00:00:00 to 23:59:59

Apply Button

With the desired option selected click the "Apply" button to set the SCT-50's internal clock

Date Display On/Off

Turns the *date display* on or off

Date Display Position

Changes the position of the *date display*. The position indicates the character number that the date starts at. Position 001 is the first character on the first line, position 180 is the last character on the last line. The *date position* may also be changed by holding down <Alt>+<D> and using the arrow keys.

Date Display Format

For SCT-50 software version 3.30 and above, there are 60 available date display formats. The GMAN software supports all of them and displays the date in the correct format in the text editor. For earlier SCT-50 software versions, only format 15 is available.

Format Number

Indicates the number of the current *date format* (1-60)

Format Example

Shows an example of what the selected date format will look like. The formats are displayed using the windows standard date format. See table below.

yy	Two digit year
yyyy	Four digit year
mm	Numerical Month (01-12) with leading zero
mmm	Month Abbreviation (Jan-Dec)
dd	Numerical Day (01-31) with leading zero
ddd	Day Abbreviation (Sun-Sat)

Setting the Date

The GMAN software provides 2 ways to set the date of the SCT-50 internal calendar.

Set Date Equal to PC

Sets the SCT-50's date to the current date of the computer

Set Date via Keyboard

Sets the SCT-50's date to a user defined date. Requires a valid date to be entered in the date entry box.

Date Entry Box

For entry of user-defined date. Valid dates are 01-01-00 to 12-31-99. Two digit years from 80 to 99 refer to years 1980 to 1999 and two digit years from 00 to 79 refer to years 2000 to 2079.

Apply Button

With the desired option selected, click the "Apply" button to set the SCT-50's internal calendar

Clone Attribute Settings

The "Clone" function is used to copy the attribute settings of the current page to any other page or range of pages.

Range

Select this option to enable the "Range From/To" boxes for entry.

Range From/To boxes

Enter the first page ("From" box) and last page ("To" box) that you want the current attribute setting to be copied to.

Clone button

With the desired range entered, use this button to copy the attribute settings. When the copy operation is finished, a message appears in the "Status Display" confirming the operation is complete.

Clone & Send Button

With the desired range entered, use this button to copy the attribute settings and then send them to the SCT-50 associated with the page they were copied to. When the copy and send operation is finished, a message appears in the "Status Display" confirming the operation is complete.

Effects Screen

Effects

The GMAN software provides three effects. These effects are: "Random", "Loop Screens", and "Line On/Off". All of the effects are run by four independent timers allowing for complete customization of the effect.

Random Movement

The "Random" effect moves one line of text randomly around the screen.

Random Vertical Line

This option causes text to move vertically in a random fashion. This is the standard random motion mode.

Random H-Pos

This option causes text to move horizontally in a random fashion. When combined with the "Random Vertical Line" option, the text moves randomly around the entire screen.

Line On/Off

The "Line On/Off" effect is simple and easy to use. It turns one line of text on and off at timed intervals.

Loop Screens

The "Loop Screens" effect provides a simple way to display multiple pages of information. This effect continuously sends out a range of text pages (screens), with a timed interval between pages.

Start Page

Specifies the first page that will be displayed when the "Loop Screens" effect is started.

End Page

Specifies the last page that will be displayed before the "Loop Screens" effect starts over.

Loop Checkbox
This option starts the "Loop Screens" effect at the first page again after it has shown the last page. In this mode the "Loop Screens" effect must be manually stopped.

Page Info
A "Page Info" display area is located at the bottom of the Effects page and becomes active only when the "Loop Screens" option is started.

Current Text Page
Shows the page number of the current page that is being displayed.

Address
Shows the SCT-50 address that the current page is being sent to.

Name
Shows the name assigned to the SCT-50 titler associated with the current address.

Timer Setup

The "Random" and "Loop Pages" effects use four independent timers to provide flexibility in setting up various combinations of on, off, and loop timing. When switching effects, the timer interface does not change, however, the numbers might change because time values entered into the timer boxes are stored separately for each effect. This allows each effect to have its own setup timing without changing the setup timing of the other effects.

It should be noted that in a system consisting of many SCT-50's, there will be noticeable in-accuracies in the timer values entered and the actual amount of real time taken to complete a particular effect and refresh the screens of many SCT-50 titlers. This can sometimes be compensated for by using the "Broadcast" mode of GMAN operation and explained in later paragraphs.

Time On
The "Time On" timers specify how long the effect will be shown on the SCT-50 overlay screen. The minutes timer ranges from 00 minutes to 60 minutes in 1 minute increments. The seconds timer ranges from 01 seconds to 60 seconds in 1 second increments. When the "Time On" timer is finished it will invoke the "Time Off" timer if any "Time Off" values are entered.

Time Off
The "Time Off" timers specify how long the effect will not be shown on the screen. Unlike the "Time On" timers, a time of 00 minutes and 00 seconds is valid. With the "Time Off" timers set at 00, the effect never turns off. The minutes timer ranges from 00 minutes to 60 minutes in 1 minute increments. The seconds timer ranges from 00 seconds to 60 seconds in 1 second increments. When the "Time Off" timer is finished it invokes the "Time On" timer.

Start Button
After all *effect* settings have been setup, this button is used to start the desired effect.

Stop Button
While an effect is running, this button is used to stop it.

Broadcast Mode

Depending on the number of titlers that are receiving the data, some effects will seem not to run correctly. This can be because of the amount of real time that it takes to send all of the data to the SCT-50's is longer then the timer interval. To correct this problem, broadcast mode is provided. In broadcast mode, address 00 is used and only one set of data needs to be sent and all of the titlers will receive it. In Broadcast Mode, the following message is displayed as a reminder:

<div align="center">

BROADCAST MODE – ALL SCT-50'S

</div>

Text Editor Display
The text editor display is a read only display. While a special effect is running, the display will show what is currently being displayed on the SCT-50(s) screen.

Line Number Labels

The line number labels in the "Effects" screen work similar to the line labels in the text editor. They are used to enable or disable lines by clicking them with the mouse. A green background indicates the line is enabled and a red background indicates the line is disabled.

> **Use with Random**
>
> When using the "Random" effect, all 9 lines may be turned on/off using the *line number labels*. There must be at least 2 lines enabled to use the "Random" effect. When a line is turned off the random text never appears on that line. This allows for some text to stay stable, for example a time and/or date display, company name, etc., and the random text to move around it. The more lines that are disabled the less random the motion will be.

> **Use with Line On/Off**
>
> In "Line On/Off" mode, only one line number will be green. This indicates on which line the text will located. To change lines, simply click the mouse on the desired line label and it will turn green.

"Enter Text to be Displayed" Box

The "Enter Text to be Displayed" box is used for entering the text to be used with the "Random" or "Line On/Off" effects. The text may be up to 20 characters in length and can include any character in the SCT-50 character set. When random h-pos is being used, the longer the text is, the less it will be able to be moved horizontally.

Text Size

To prevent the text from being positioned off the screen, the available text sizes are limited while in *effects mode*. If a titler is checked in the "Titler Version" lists, then the GMAN software assumes it has a software version below 3.30. If any connected SCT-50's have software versions below 3.30 then some of the effects "Size" and "Position" options are disabled to prevent a malfunction from occurring.

> **Software Versions Below 3.30**
>
> With versions below 3.30 enabled, only v-size 1s,1x,and 2x are available. No position changes may be made. The screen is automatically centered when the effect is started.

Software Versions 3.30 and Above

This information applies only if **ALL** SCT-50(s) enabled have software version 3.30 or above. There are four sizes available 1x,1s,2x,2s. In addition, the V-Position may be changed in 1s and 2s mode to change the size of the split.

Enabled For Random List

This list contains all of the SCT-50(s) that are currently enabled for communication in the "Titler Names & Enabling" list. To enable a SCT-50 for random motion or line on/off, click the checkbox next to its name. Only the SCT-50(s) with checks will receive the "Random" or "Line On/Off" effects data.

Titler Names/Versions Screen

Titler Names & Enabling List

The titler names and enabling list provides a list of all possible titler addresses (01-99). Each address can have a name associated with it. This name allows for easier identification of the titler.

Titler Enabled Checkbox

The checkbox next to the titler address/name is the *titler enabled checkbox*. This checkbox is used to enable/disable a SCT-50 titler for communication. If a titler is not checked, then, except for Broadcast Mode, the GMAN software will not send any data to it. This feature is designed to prevent accidental overwrite of SCT-50 screens.

Titler Name Entry Box

This box is used to enter a name for the selected titler. The name may be up to 20 characters in length.

Clear Button

The "Clear" button clears the text in the *titler name entry box*.

Apply Button

This button sets the name of the selected titler to that of the text entered in the *titler name entry box*.

Titler Version List

The GMAN software is designed to support all versions of the SCT-50 software. In order for the GMAN program and SCT-50 to function properly, the GMAN software needs to know which SCT-50s have early versions of software. The "Titler Version" list is used to identify those SCT-50s that have software versions below 3.30. It is important to have this list be accurate or a malfunction may occur.

Version 3.30 or Below Checkbox

The checkbox next to the titler name/address is for checking off that the SCT-50 titler software version is below 3.30. No check mark indicates 3.30 or above.

Identify Titlers Button

In some cases it may be desirable to see which physical SCT-50 is connected to which screen. The "Identify" button sends the associated address and name out to each SCT-50. Pressing the button a second time removes the address and name and re-sends the last page and attribute settings that were previously sent to the SCT-50. When a text page or attribute settings are sent to a SCT-50 titler, the number of the text page associated with the address is saved in memory as

the last page sent to the titler. When the un-identify button is clicked, the saved page sent out again to the SCT-50 to restore the display.

System Setup Screen

Comm. Port Selection

In order for the connected and enabled SCT-50's to receive data, the correct comm. port must be used. There are four comm. port*s* to choose from. Each computer may differ as to which comm. port is available for use. The GMAN software is able to detect if a comm. port is available for use and can then detect if there are any SCT-50's connected to the comm. port. In order for the GMAN software to detect a SCT-50, it must first be enabled in the "Titler Names and Enabling" list. If it is not enabled, the GMAN software will not send any commands to that address and will not be able to detect that an SCT-50 is present.

Auto Detect

The GMAN software is able to automatically detect the correct settings for your system. The auto-detect may take up to 10 seconds to complete. If any SCT-50's are found during detection, the comm. port selection will automatically be set to the correct port. If no SCT-50(s) are found, be sure to check that the SCT-50 is enabled in the "Titler Names and Enabling" list.

Port Status

The port status displays information regarding whether or not the port is available for use by the GMAN software. A display of "Port Available" means that that comm. port is available for use.

SCT Status

The "SCT Status" display shows information regarding whether a SCT-50 is detected on the current comm. port. Detection may take up to several seconds.