NV9605T (Operator's Guide)

This brief guide describes the NV9605T Remote Panel.[1]

With the NV9605T, you can control an NV9000 system from remote locations over the Internet. The NV9605T is a software version of the NV9605 control panel.

Please refer to Miranda's NV9000 documentation for information about the NV9000 and its operation. You should be familiar with the operation of the NV9000 system you are controlling and its source and destination devices.

Introduction

The NV9605T behaves as if it were an ordinary control panel in an NV9000 system.

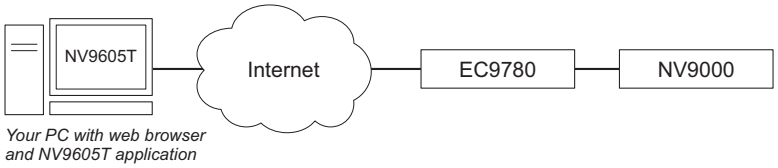


Figure 1-1. Network Connections for the NV9605T

The NV9605T dispatches commands (button presses) through the Internet to the EC9780 which forwards the commands to the NV9000 system controller. The NV9000 system control executes the commands, sending status responses back to the EC9780 which then forwards the status messages back to the NV9605T which updates its display according to the status message.

NV9605T panels can be configured many different ways. Please communicate with the system managers at the NV9000 site to learn how your NV9605T is configured.

The NV9605T runs under Windows XP or Vista and requires an Internet connection and an Internet browser. The NV9605T requires a window of at least 1155 pixels in width. Your monitor should be at least that large for optimal use.

1. The NV9605T is used in conjunction with Miranda's EC9780 Web Interface.

Software Setup

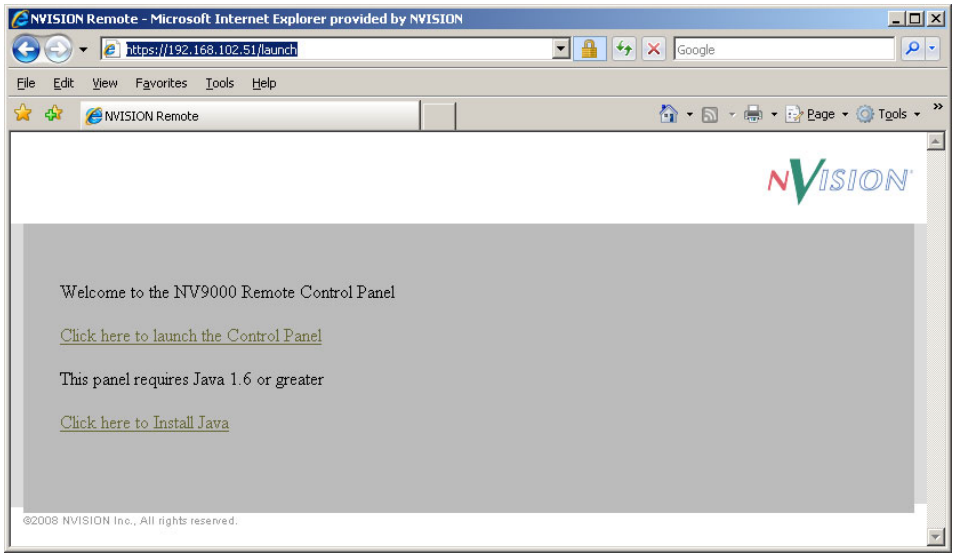
An initial setup step is required before you can operate the NV9605T. You need perform this step only once, unless someone has done it for you already.

Follow these steps to set up the panel initially:

1 Start a browser, e.g., Internet Explorer. Enter the following address

`https://`*internet address*`/launch`

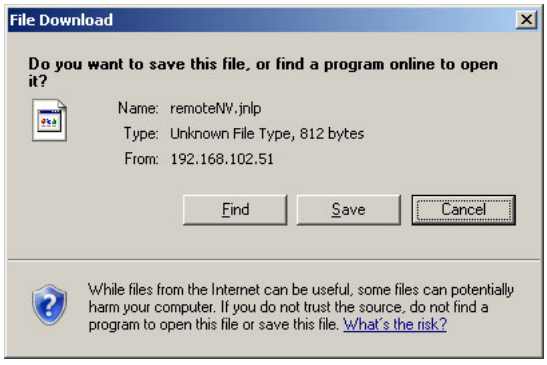
where *internet address* is the IP address given to you by the NV9000 administrators. The launch panel will appear. In this example, the address was `https://192.168.102.51/launch`.



▲ If you experience problems with network security—you receive security warnings—please consult with the NV9000 administrators about your options.

2 Click 'Click to launch the Control Panel'.

If your PC does not have Java 1.6 installed, first click 'Click here to Install Java' and follow the simple instructions and procedure. If Java 1.6 is not installed, you see a message resembling this one:



3 When you launch the control panel the first time, several events occur.

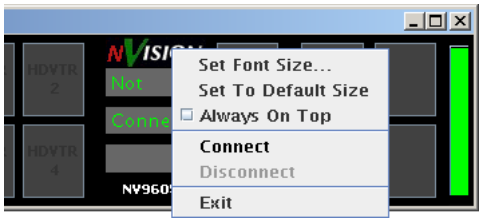
First, a security warning appears. Click 'Run'.

4 The panel (initially dark) appears and this authentication dialog appears:

Enter your user ID and password.

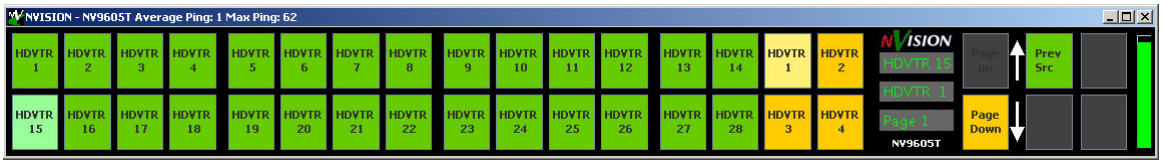
The control panel first appears empty (dark):

If, after a few seconds, the panel panel buttons do not change, right-click the word "NVISION." A context menu appears:

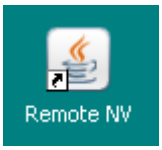


Click the 'Connect' command.

The panel should fully illuminate with its configured buttons:



During the initial launch, the software installs a desktop icon and creates a Windows Start menu entry for the remote panel.



The Start Menu entry is `Programs` > `Nvision` > `Remote NV`.

5 The remote panel launch is complete.

After the initial setup, which might include loading Java 1.6 and which will have created a desktop icon, it is sufficient just to click the desktop icon to launch the remote panel. You can also access the panel through the Windows Start menu.

In either case, the panel software will always ask for your ID and password.

You might or might not continue to see network security warnings.

Using the NV9605T Panel

Much of the control panel function is pre-determined by someone at the NV9000 site. Panel configurations are distributed to remote panel users. The exact nature of your configuration is a matter of negotiation between you and the NV9000 administrators.

Although it is not possible to describe specific configurations in this guide, it is possible to present some usage guidelines:

- There are four banks of 8 buttons (or 2 rows of 16 buttons). The NV9605T displays up to 4 pages of buttons. (That allows 128 buttons.) Use the page up and page down buttons to scroll through pages.
- Green buttons represent source devices; amber buttons represent destination devices.
- The panel has three 8-character status lines. The third shows the number of the selected page. The middle status line shows the selected destination. The top status line shows the source for the selected destination.
- A take is either a 1- or 2-button operation:

  (1) Optionally press a destination button.
  (2) Select source button.
- There are 4 function buttons to the right of the arrows. The functions are arbitrarily chosen from a fixed set during configuration.

  See Button Functions on page 8 for a complete listing.

- To the right of the function buttons is a timeout indicator. The panel times out after 60 seconds of non-use. If it does time out, you may "reconnect" by clicking 'Connect' on the context menu (which is available by right-clicking anywhere in the black region or in the word "NVISION.")
- The panel can be resized. You can shrink it, but after a certain limit, the panel buttons get cropped away. There is a command in the context menu to restore the panel's default size.

Please refer to the NV9605 documentation in the *NV9000-SE Utilities Operator's Guide* for information. Also, please note:

- There are NV9605 configuration options that you cannot see. For example, there are 2 "release" modes and 3 "data routing modes" that might be in effect. You should be aware of these options. You cannot directly control these options.
- Although a physical NV9605 has GPIO connectors, the NV9605T does not have GPIO connectors. The NV9605T ignores any GPIO configuration data. You can ignore any documentation that mentions GPIO.

The Context Menu

This is the context menu[2] that appears when the operator right-clicks in blank area of the panel:

Commands in this menu include:

- Set Font Size...

  The choices range from size 7 to size 15. The default is 11.

- Set to Default Size

  If you have resized the panel, this command restores the panel to its default size (1155×155 pixels).

- Always on Top

  This is a checkbox item. When the box is checked, the panel remains in front of every other window on the operator's screen. Otherwise it does not.

- Connect

  Click this command to connect the remote panel to the NV9605T. You might have to reconnect using this command if your panel times out.

- Disconnect

  Click this command to disconnect the remote panel from the NV9605T.

- Exit

  Click this command to terminate and close the panel.

2. Users familiar with the NV9605V (virtual panel) might note that the NV9605T has a reduced menu.

Operational Topics

Timer

At the far right end of the panel is a timeout indicator.

▲ If you have reduced the size of the panel window, it is possible that you might not see it.

The panel times out after 60 seconds of non-use. If it does time out, you may "reconnect" by clicking 'Connect' on the context menu (which is available by right-clicking anywhere in the black region or in the word "NVISION.")

Page Scrolling

The NV9605T has 128 "virtual" buttons to which functions can be assigned. These functions correspond to the left-most group of 32 actual buttons. The 128 button are available in 4 "pages" through which you may scroll using the page up and page down buttons (just to the left of the arrows).

Your panel configuration might use any or all of the 128 buttons.

These 128 buttons can include the following functions:

- Destination (select)
- Level (select)
- Panel Lock
- Salvo (execution)
- Source (select)

Some of the buttons might be undefined. They appear dark with no legend.

See Button Functions on page 8.

Function Buttons

The NV9605T has 4 function buttons to the right of the up/down arrows. There are many different functions that could be assigned to these 4 buttons. See Button Functions on page 8.

(These buttons do not scroll with the arrows.)

All buttons have legends created at the time the panel was configured.

Modes of Operation

The panel operates in either multi-destination mode or (limited) X-Y mode. It allows breakaway if it is configured with level buttons.

The panel mode affects the way you perform takes. See Takes (X-Y) on page 10.

Configurable Functions

The NV9605T has the following features (among other more standard features):

- Previous source and Free Source functions.
- Lock/release and Protect/Release for destinations.
- A single button press to return to a pre-defined default state.
- Multiple source breakaways.
- "Hold" breakaway levels.
- System salvos (but not local salvos).
- In a multiple panel configuration, a Force Release of a locked or protected device can be configured for each NV9605. However, note that Release and Force Release functions are mutually exclusive on the same control panel.

While green generally represents sources and amber represents destinations, a breakaway's primary level is indicated by an amber button; other breakaway levels are indicated by green buttons.

Panel Limitations

These are functions the NV9605T does not perform:

- Source Locks and Protects. Source locks and protects are not indicated on the NV9605 panel, nor can the user initiate these modes. The panel supports only "destination" locks and protects.
- Local Salvos. The NV9605 control panel can run only system salvos. "Local" salvos (such as those created on the NV9601 panel) are not supported. The user cannot create them.
- Category selection. The NV9605 does not have category buttons or numeric buttons.

Panel Parameters

The NV9605T can be configured with these parameters. Contact the NV9000 site administrators if you need to know how your panel is configured.

Release Mode	Normal Release	This panel can release "locks" and "protects" set only at the panel itself (by the assigned user). A user who has the correct PIN can enable 'Force Release' temporarily, allowing the removing of locks and protects set by any user.
	Force Release	This panel can release locks and protects set by any user. Miranda recommends that you use 'Normal Release' mode and assign a PIN to allow access to the 'Force Release' function.
Default Destination	None	After a reset, the panel displays no destination device. (Not recommended.)
	‹device›	The Panel uses the specified device as the destination after a reset. This also becomes the destination controlled when the panel is set to single destination mode.
Data Routing Mode	Automatic	Routes made on the control level, if present, occur automatically.
	Semiautomatic	Routes made on the control level, if present, require a confirmation before being switched.
	Manual	All routes made on the control level when the source device is currently in use are performed as separate takes.

Panel Options

The NV9605T can be configured with these options. Contact the NV9000 site administrators if you need to know how your panel is configured.

(These are checkbox options in the configuration software, that might be enabled or disabled.)

- User-Programmable ID.

  Allows the Panel ID to be changed locally at the control panel itself. If left unchecked, ID numbers can only be changed by first entering the system PIN locally at the control surface to temporarily enable ID changes.

- Source Master Default.

  Makes the source the controlling (or "master") device. Otherwise, the default setting is "destination is master." (The option is specifically for use with an NVISION series data router or port switch.)

  "Source is master" is used for duplication, or broadcast routing, on the control level. "Destination is master" is for machine-to-machine editing.

  Note: Remember that "Source is master" mode reverses the direction of data routing for devices used in data (control) level takes.

  Note: If you do not select this option, you can place a Source Master button on the panel. Be aware that if you select 'Source Master Default', you cannot use a Source Master button to switch to "destination is master" mode.

- Hold Preset Default.

  Makes "Hold" active (if it is on a button) when the panel reverts to its default state (after a Default State button is pressed, or when the panel is restarted).

  Note: Miranda recommends that if you choose this option, you place a Hold button on the panel.

- Hide Sources Not Configured on this Panel.

  Causes the names of source devices that are not presently configured for this particular panel to be (effectively) hidden. The panel displays asterisks instead.

Button Functions

There are two classes of buttons:

- Those that assign a dedicated function to a button directly, such as 'Default State' or 'Clear'.
- Those that define a variable function, such as 'Source' or 'Level'. With this type of assignment, additional selections are needed before the button can be used.

These are the assignable button types for the 4 function buttons:

Type	Description
Broadcast	On the data (control) level, the button assigns one controlling device (master) to multiple controlled devices (slaves). Useful in dubbing and editing applications. Status is only reported from the first assigned slave.
Chop	When supported by the router, the button is a toggle that enables and disables rapid switching of the selected destination device between the current source and the preset source. Used to test system timing.
Default State	Reverts the panel to its pre-defined state.
Destination Lock	The button sets or clears a "lock" on the current destination device.
Destination Protect	The button sets or clears a "protect" on the current destination device.
Free Source	The button selects a phantom device that can be used to release (or free) devices on the data (control) level. A free source is also used with tielines to free the tieline for others to use.
Hold	The button causes preset information to be retained after a take. Useful when routing the same source to many destinations.
None/All	The button selects *all levels* or *no levels* as part of a switch. Levels available depend upon the selected destination device.
Previous Source	The button presets the previously selected source to the currently selected destination. (The function does not apply to sources chosen at other panels.)
Source Master	The button reverses the direction of data routing for devices used in data (control) level takes. For example, if the destination (controlling) device is the master and the source (controlled) device is the slave, press Source Master to reverse the roles.
Source Shift	Every source button can represents 2 sources. The Source Shift button is a toggle that enables or disables the second source. Without a source shift button, the user is limited to the 64 first sources. (The Source Shift button acts like the Shift key or Caps Lock key on a keyboard.)
Undefined	An *undefined* button remain unlit and unusable.

These are the assignable button types for the left-most 32 buttons. (Remember that there are 4 pages of 32 buttons for a total of 128 functions.)

Type	Description
Destination	The button selects a destination device.
Level	Chooses a specific virtual level. When you assign a level button, an additional drop-down menus appears: virtual level. Choose one of the levels (or 'none') from the list.
Salvo	The button arms a salvo. A second press of the button executes the salvo.
Source	The button selects a source device.
Undefined	An *undefined* button remain unlit and unusable.

Please refer to the *NV9000-SE Utilities User's Guide* or other NV9000 documentation for more information.

Tips and Hints

Button Legends

All buttons have legends created at the time the panel was configured.

Source buttons (green) display the legend that corresponds either to source 1 or source 2, depending on the state of of a 'Source Shift' button. When the source shift button is active, the legend for source 2 is displayed. If your panel has no 'Source Shift' button, it always displays the legend for source 1.

Takes (X-Y)

A panel must be configured as an X-Y panel.

For a basic or "normal" take, press a destination button, then press a source button. You might have to scroll through the button pages to find the source and destination you want to use.

You can undo the most recent take if you have a 'Previous Source' button.

For a breakaway take, do this:

1 Press a destination.

2 Optionally press a source. (All levels come from this source.)

3 Repeat

Press level buttons, then press a source. The selected levels now come from this source. Whichever levels you selected now do ***not*** come from the source(s) you selected previously.

Until you have completed the take to your satisfaction.

Hold

If you have a 'Hold' button, it affects breakaway takes.

When 'Hold' is selected, whatever levels you select persist until you change the selection.

When 'Hold' is not selected, all levels become reselected after you press a source button.

Hold does not affect normal (non-breakaway) takes.

Takes (Multi-Destination)

A panel must be configured as a multi-destination panel.

In MD mode, each of the "left 32" buttons corresponds to one or two sources and a destination. When you press the button, a take occurs from one of the sources of the button to the destination of the button.

If you have a Source Shift button, then when the Source Shift button is selected, source 2 is is taken. When Source Shift is unselected (or when you have no Source Shift button) source 1 is taken.

Breakaway is not available in MD mode.

Locks and Protects

You can lock or protect destinations. A lock prevents anyone from routing a source to that destination. A protect prevents *others* from routing a source to that destination. You may continue to route to the destination as often as you like.

To lock a destination, press the destination to select it, then press 'Destination Lock'.

To protect a destination, press the destination to select it, then press 'Destination Protect'.

- If your panel configuration does not include a Lock or Protect button, locks and protects are not possible.

To unlock or unprotect a destination, select the destination and press 'Destination Lock' (or 'Destination Protect') once again.

Salvos

Salvos are defined globally and could be used by all panels (that have the capability) in the entire NV9000 system. (A salvo is a stored set of NV9000 commands usually comprising a number of takes and perhaps some pauses.)

Your NV9605T might have salvo buttons. These execute system salvos. You should know what a salvo does before you press a salvo button. Exercise caution.

To execute a salvo requires two presses of the salvo button. The first "arms" the salvo; the second causes its execution. The double press requirement is a safety mechanism.

Machine Control Routers

Takes involving machine control routers are different from takes involving other routers. Review the NV9000 documentation for information about machine control routers.

Technical Support

Miranda has made every effort to ensure that the equipment you receive is in perfect working order and that the equipment fits your needs. In the event that problems arise that you cannot resolve, or if there are any questions regarding this equipment or information about other products manufactured by Miranda, please contact your local representative or contact Miranda directly through one of the appropriate means listed here.

- Main telephone: 514-333-1772
  Fax: 514-333-9828

  In the Americas, call toll-free: +1-800-224-7882 (9 am to 9 pm EST)
  In Europe, the Middle East, African or the UK, call +44 (0) 1491 820222 (9 am to 6 pm, GMT)
  In France, call +33 1 55 86 87 88 (9 am to 5 pm, GMT + 1)
  In Asia, call +852-2539-6987 (9 am to 5 pm, GMT + 8)
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▲ **Note:** Return Material Authorization (RMA) required for all returns.