INSTALLATION GUIDE

HVS-2000GUI
Graphical User Interface Software

Version 1.00.0-01-37 or Higher
## Version Revision History

<table>
<thead>
<tr>
<th>Ver.</th>
<th>Rev.</th>
<th>Date</th>
<th>Description</th>
<th>Section/Page</th>
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<tr>
<td>1.00</td>
<td>-</td>
<td>2015/07/15</td>
<td></td>
<td></td>
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<tr>
<td>1.00.0-00-88</td>
<td>-</td>
<td>2016/09/26</td>
<td>Changed chapter structure.</td>
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<tr>
<td>1.00.0-01-09</td>
<td>-</td>
<td>2017/02/20</td>
<td>Supported Windows 10. Changed MU IP address settings.</td>
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<td>1.00.0-01-29</td>
<td>-</td>
<td>2017/07/24</td>
<td>Added control panel link. Added saving/loading data.</td>
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<td>4-3, 4-4</td>
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<tr>
<td>1.00.0-01-37</td>
<td>-</td>
<td>2017/09/07</td>
<td>Removed TCP PORT setting.</td>
<td>3-4-2</td>
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1. Prior to Starting

HVS-2000GUI is a software application, can be installed on a computer to remotely control HVS-2000 units from the computer.

1-1. Unpacking

Check your received items against the packing lists below. Check to ensure no damage has occurred during shipment. If damage has occurred, or items are missing, inform your supplier immediately.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD-ROM</td>
<td>1</td>
<td>Installation Disc</td>
</tr>
<tr>
<td></td>
<td></td>
<td>User manual (PDF) included</td>
</tr>
<tr>
<td>Installation Guide</td>
<td>1</td>
<td>(This guide)</td>
</tr>
</tbody>
</table>

1-2. Setup Procedure

Installing the HVS-2000GUI (See Sec. 2.)
↓
PC Network Settings (See Secs. 3-2 and 3-3.)
↓
Connecting the PC to HVS-2000 system (See Sec. 3-1.)
↓
Starting HVS-2000GUI (See Sec. 3-2.)
↓
HVS-2000 switcher operation

1-3. PC System Environment

To install the HVS-2000GUI on a PC, the following system environment is required.

<table>
<thead>
<tr>
<th>OS</th>
<th>Windows 7 (Home Premium Edition or later)</th>
<th>Windows 10 (Pro or later)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Intel(R) Atom(TM) CPU N450 @ 1.66GHz or faster</td>
<td></td>
</tr>
<tr>
<td>Memory</td>
<td>1GB or more</td>
<td></td>
</tr>
<tr>
<td>Hard Disk Space</td>
<td>32GB or more</td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td>Resolution of WXGA (1280 x 768 pixels) or better Must be capable of full color (24-bit) display</td>
<td></td>
</tr>
<tr>
<td>Graphic Card</td>
<td>256.0MB or more video memory</td>
<td></td>
</tr>
<tr>
<td>Network Port</td>
<td>1 port, 1000BASE-T (USB-LAN adapter can also be used. *1)</td>
<td></td>
</tr>
<tr>
<td>USB Port</td>
<td>1 port for transferring files To use an HVS-2000TPU , 2 more ports (4 if possible) are required. *2</td>
<td></td>
</tr>
<tr>
<td>HDMI port</td>
<td>1 port (if using an HVS-2000TPU.) *2</td>
<td></td>
</tr>
</tbody>
</table>

*1 When using USB-LAN converters, disable the sleep and standby modes on your computer.
2. HVS-2000GUI Installation

2-1. Installing HVS-2000GUI

Before installing HVS-2000GUI, set the text size in Windows to Smaller – 100% using the following procedure.

- Go to Control Panel > Appearance and Personalization > Display. Select Smaller – 100% and tap Apply.

◆ Installation
(1) Load the supplied installation CD-ROM into the PC.
   Double-tap “HVS-2000GUI_vXXXX_XXXX_XXXX.exe” in the folder to start the installation wizard.

   If you are copying contents from the CD-ROM to a folder on the PC for installation, only one-byte alphanumeric characters can be used for the folder name. Otherwise, installation may not be completed properly.

(2) The HVS-2000GUI installation will automatically start.
(3) Once the installation is completed properly, the screen as below will appear. Check the checkbox and tap Finish to exit the installation wizard and start HVS-2000GUI.

2-2. Starting / Closing the HVS-2000GUI

◆ Starting the HVS-2000GUI
(1) Go to Start > All Programs > FOR-A > HANABI > HVS-2000GUI to start HVS-2000GUI.
(2) The HOME screen will be displayed. Make sure that the status indicator (upper right) turns green.
   Once the HVS-2000GUI has launched after the network connection (see Sec. 3 “Connection”), the MU connection will be established automatically (The “LINK” indication in the bottom right of the HVS-2000GUI window changes to “CONNECTION”.)

◆ Closing the HVS-2000GUI
Tap the close button [X] at the upper-right corner of the window, then tap YES to exit the HVS-2000GUI.

2-3. Removing the HVS-2000GUI

(1) Go to Control Panel. Tap Uninstall a program beneath Programs. Select HVS-2000GUI and tap Uninstall.
(2) Select Remove and tap Next.
(3) Tap Finish.
3. Connection

3-1. HVS-2000 System and PC Network Configuration

Configure your devices as shown below.

Up to three GUI (including a control panel Midas Touch and HVS-2000TPUS) can control a single MU (HVS-2000) via an Ethernet hub.

3-2. PC Network Settings

HVS-2000 units and GUI are connected via Ethernet. The Ethernet port on the HVS-2000 supports 10/100/1000BASE-T. Use the supplied or prepared LAN cable to connect to the HVS-2000. Use Category 5e or 6 cables. Use a cross-over cable for directly connection and straight-through cables for connection via a network hub.

◆ MU (HVS-2000) LAN1 Default Settings

<table>
<thead>
<tr>
<th>IP address</th>
<th>192.168.0.80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subnet mask</td>
<td>255.255.255.0</td>
</tr>
<tr>
<td>Gateway</td>
<td>192.168.0.1</td>
</tr>
</tbody>
</table>

◆ MU (HVS-2000) LAN2 Default Settings

<table>
<thead>
<tr>
<th>IP address</th>
<th>192.168.0.81</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subnet mask</td>
<td>255.255.255.0</td>
</tr>
<tr>
<td>Gateway</td>
<td>192.168.0.1</td>
</tr>
</tbody>
</table>

◆ PC Network Settings (if MU LAN ports settings are factory default)

<table>
<thead>
<tr>
<th>Available IP address range</th>
<th>192.168.0.2 to 254 (Do NOT use an IP address already being used by device on the same network.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subnet mask</td>
<td>255.255.255.0</td>
</tr>
<tr>
<td>Gateway</td>
<td>192.168.0.1</td>
</tr>
</tbody>
</table>
(1) Go to Start > Control Panel > Network and Internet > Network and Sharing Center.
(2) Tap the Local Area Connection icon and choose Properties. If the administrator password or confirmation is requested, enter the password or enter the confirmation information.
(3) Tap the Network tab. Tap Internet Protocol Version 4 (TCP/IPv4) under “This connection uses the following items:” and tap Properties.
(4) Select the Use the following IP address: radio button and set the IP address and Subnet mask settings.

After completing all settings, tap OK and close all windows.

**NOTE**
The procedure for setting network settings on the PC varies depending on the PC, so refer to your computer's USER Manual for details.
Make a note of the network settings before changing them in case you need to return the settings to their original settings later.
When running HVS-2000GUI within a company LAN, consult your network administrator.

3-3. PC Network Device Settings
Before using your HVS-2000GUI, verify that the network device on the computer is set as shown below.

(1) Tap on the Start button and them select Control Panel.
(2) Change Viewed by: to Large Icons found in the drop down in the upper left of the screen.
(3) Tap on Device Manager.
(4) Double tap on the Ethernet adapter device listed under Network Adapters.
   (Choose an appropriate device, because an Ethernet device may vary depending on computers.)
(5) Tap on the Advanced tab.
(6) Select Large Send Offload v2(IPV4) in the Property box, then set Disable in the Value box.
(7) Tap OK.

Note that depending on the Ethernet device, Large Send Offload v2(IPV4) may not listed or appear under a different name in the Property box.
3-4. If the MU (HVS-2000) Connection is Unsuccessful

Once the HVS-2000GUI has launched after the network connection, the MU connection will be established automatically (The “LINK” indication in the bottom right of the HVS-2000GUI window changes to “CONNECTION”).

3-4-1. Adding the GUI to Windows Firewall as Allowed Program

If the connection between the MU and PC is not established or Windows Firewall dialog box does not appear, follow the procedure below to add the HVS-2000GUI to the Windows Firewall as an allowed program.

(1) Go to Start > Control Panel > Windows Firewall > Allow a program or feature through Windows Firewall.
(2) Tap the Change settings button.
(3) Check the HVS-2000GUI checkbox and tap OK.

3-4-2. Manually Selecting an MU

Normally the MU connection is automatically established, however, an MU can be manually connected by specifying the IP address (LAN2). To connect to another MU or the MU whose IP address has changed, proceed as follows:

◆ Specifying an IP address

(1) Display the [SETUP > HOME > GUI SETUP] menu.
(2) Tap CONTROL MU to display parameters.
(3) Tap CONTROL MU IP ADDRESS (left edge) and enter the MU IP address (LAN2).
(4) Tap RECONNECT and EXEC. The specified MU IP address will pop-up. Tap YES to connect to the MU.

◆ Selecting the MU IP address from the IP address list

(1) Display the [SETUP > HOME > GUI SETUP] menu.
(2) Tap CONTROL MU to display parameters.
(3) Tap CONTROL MU IP ADDRESS (left edge) to display the numeric keypad.
(4) Tap LIST on the keypad.
(5) An IP address list as shown below will appear.
(6) Select the MU IP address to be connected.
(7) Tap **RECONNECT** and **EXEC**. The specified MU IP address will pop-up. Tap **YES** to connect to the MU.

![IP Address List](image)

3-4-3. Changing the Connected MU IP Address

Open the [SETUP > SYSTEM > SYSTEM] menu and set the LAN1(MAIN) and LAN2(SUB) port settings.

![Setup Menu](image)

Tap a parameter in the menu to display it in the Setting area. Tap the parameter value in the Setting area to change port settings using a pop-up keypad. After completing settings, click **Enter**.

LAN port change requires an MU reboot, which can be performed after finishing all other necessary settings by pressing **MU REBOOT**.
4. HVS-2000GUI Operation

Refer to the “HVS-2000GUI Operation Manual” for more details on the menu and operation procedure.

4-1. Verifying Current Status

The HOME screen allows you to verify the M/E, FLEXaKEY and STILL status.

◆ [SETUP > HOME > HOME > STATUS] menu

If this tab screen does not appear on your display, tap tabs in the order (1) to (4) as shown in the figure below.

<table>
<thead>
<tr>
<th>ON AIR</th>
<th>TRANS TYPE</th>
<th>PATTERN NO</th>
<th>RATE</th>
<th>DVE</th>
<th>EDGE</th>
<th>FILL</th>
<th>KEY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lit red: On-air</td>
<td>Displays current settings</td>
<td>Channel type when using DVE</td>
<td>Key edge type</td>
<td>Selected video sources</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unlit: Off-air</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

◆ [SETUP > HOME > HOME > RE-SOURCE 1] menu

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td>This is being used.</td>
</tr>
<tr>
<td>X</td>
<td>Currently unavailable</td>
</tr>
<tr>
<td>---</td>
<td>Unavailable</td>
</tr>
<tr>
<td></td>
<td>Available</td>
</tr>
</tbody>
</table>
**[SETUP > HOME > HOME > RE-SOURCE 2] menu**

**MELite / AUX**

<table>
<thead>
<tr>
<th>M/E Lite / AUX</th>
<th>BUS</th>
<th>AUX TRANS</th>
<th>AUX INHIBIT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lit:</strong> Active output bus between them</td>
<td>M/E Lite video source</td>
<td>AUX transition ON/OFF</td>
<td>Transition support bus</td>
</tr>
</tbody>
</table>

**M/E UTILITY**

<table>
<thead>
<tr>
<th>XPT</th>
<th>MASK</th>
<th>SIDE PANEL</th>
<th>EFF BKGD</th>
<th>ANCILLARY PGM</th>
<th>ANCILLARY OUT1-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selected video source</td>
<td>Displays the M/E UTILITY usage status.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**AUX UTILITY**

<table>
<thead>
<tr>
<th>AUX UTILITY XPT</th>
<th>AUX UTILITY ASSIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selected video source</td>
<td>Displays the AUX UTILITY usage status.</td>
</tr>
</tbody>
</table>

**FLEXaKEY**

<table>
<thead>
<tr>
<th>ASSIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displays the FLEXaKEY assignment status.</td>
</tr>
</tbody>
</table>
4-2. Linking with Control Panel

Normally the control panel setup settings cannot be performed from the HVS-2000GUI, and the control panel and GUI screen menus are not linked exactly, such as the link between Mini Menu and Midas Touch menus.

If configuring the system as shown below using an Ethernet hub, the GUI screen menus can manage all menu parameters including control panel setup settings, in addition, the control panel and GUI screen menus can be exactly linked to each other.

[Diagram showing network configuration with IP addresses]

◆ If Setting in the Control Panel (Mini Menu)
(1) Open the [PANEL > GUI SETUP > EXT-GUI LINK] menu.
(2) Specify the HVS-2000TPUS IP address (192.168.0.2 in the connection example) under EXT-GUI IP ADDRESS. (Selecting LIST in the IP address setting dialog allows you to display the list of active GUI IP addresses and to select an address from the list.)
(3) Turn EXT-GUI LINK to ON.
(4) To link the control panel (MiniMenu) and HVS-2000TPUS menus, turn EXT-GUI MENU LINK to ON. Otherwise, leave it OFF.
If Setting in the HVS-2000GUI
(1) Open the [HOME > GUI SETUP] menu.
(2) Specify the HVS-2240OU (Mini Menu) IP address (192.168.0.83 in the connection example) under EXT-GUI IP ADDRESS.
(3) Turn EXT-GUI LINK to ON.
(4) To link the control panel (MiniMenu) and HVS-2000TPUS menus, turn EXT-GUI MENU LINK to ON. Otherwise, leave it OFF.
4-3. Saving Data (from Switcher to USB Drive)

The switcher is capable of storing operational data, such as system and bus setting data, still images, WIPE and DVE modifications and event data, to USB flash drives on the PC. The following procedure shows how to download all setting data.

(1) Insert a USB flash drive into a USB port on the PC.
(2) Open the [SETUP > FILE > SAVE] menu.
(3) Tap USB E:\. (USB drive to which the data is going to be backed up. Drive letter may change depending on the system configuration)
(4) Tap MU ALL.
(5) Tap the MU ALL DATA icon in the left side of the screen.
(6) Tap on YES on the confirmation dialog to save the data to the USB drive.

![Image of the Switcher interface showing the process of saving data to USB.

**IMPORTANT**

Do not remove the USB drive while the access lamp is flashing. The time at which data is saved to a USB drive is also recorded according to the switcher internal clock.

4-4. Loading Data (from USB Drive to Switcher)

The following procedure shows how to upload and apply all setting data stored in the USB flash drive.

(1) Insert the USB drive in which the all data is stored, into a USB port on the PC.
(2) Open the [SETUP > FILE > LOAD] menu.
(3) Tap USB E:\. (USB drive to which the file is stored. Drive letter may change depending on the system configuration.)
(4) Tap MU ALL.
(5) Select the folder to which the data is to be stored (HVS-2000) to load all setting data.
(6) Reboot the system.
IMPORTANT

Once the saved system data (files with "all" or "sys" extension) finishes loading, you will have to restart the switcher. (The unit should be powered off then powered ON.) The system data is applied only after the switcher is restarted.
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