Before connecting, operating or adjusting this product, please read this instruction booklet carefully and completely.
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The specifications and information in this document are subject to change without notice.
Overview

The WIS2000 Control Tablet from FSN Medical Technologies is a single appliance that can operate FSN’s MDVR (IPS700A) Medical Digital Video Recorder with the touch of a finger.

The tablet hardware and software have been designed to easily capture and record medical images and video for later play back. The system can be controlled, wirelessly if desired.

FSN’s simple tablet user interface has been designed to meet the needs of today’s OR environment, where hospital personnel’s primary focus is patient care. It excels at meeting this requirement with intuitive simplicity and ease of use.

This User Guide will provide instructions for appropriate product configuration, based upon your hospital’s requirements.
Package Contents

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<tr>
<td>1</td>
<td>Touch screen tablet</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Tablet holder</td>
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<td>VESA bracket</td>
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<td>Protective poly bag</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>WIS0001 accessory and cable</td>
<td>1</td>
</tr>
</tbody>
</table>

Verify that all components have been received.

Inspect each component and verify that none of the components have been tampered with in any way.
WIS2000 Control Tablet/MDVR Sample Configuration

Display Monitor
Playback

Saved to Media:
- CD
- DVD
- Blu-ray
- USB
- FTP Server

Medical Digital
Video Recorder

Start and stop
with foot pedal
or hand switch.

Source Signals
- VGA
- DVI-D
- CVBS
- S-Video
- Audio

WIS2000
Control Tablet
Mounting the Tablet Dock

Determine where the tablet dock will be located. It should be close enough to MDVR so that a wire connection is possible, if required. The tablet dock should also be located where it can connect to AC power for charging, if required.

It is suggested to use a sturdy boom or arm since the tablet will need to dock and undock with some applied pressure. Vesa mounting holes are located on the metal bracket holding the tablet dock.

Unpack the tablet dock and mount it securely, using the provided M4 x 10 screws. Compatible VESA pattern (mm): 75 x 75 or 100 x 100
Docking and Removing the Tablet

The tablet dock and the tablet holder interconnect at two main points.

The first is a “D” shaped slot on both the holder and the dock. The tablet is lowered into position so that it engages with the slot on the dock.

The second connection point is the charging/communication jack located on the bottom edge of the tablet (female) and inside the lower cradle portion of the tablet dock (male). Make sure this connection is fully seated.

To remove the tablet from the dock, grasp the base of the dock with one hand, and the top of the tablet with the other hand. While holding the dock in position, pull the tablet away and free from the dock.
Connect to MDVR (IPS700A) - Wired

To connect the tablet to MDVR using a wired connection, use the supplied adapter/converter (WIS0001). This method does not require that the tablet dock be connected to a wall outlet. The tablet is charged through the connection to MDVR.

Note: MDVR must have the type of tablet connection, wired (UART) or wireless, configured into the system through the front panel control keypad and small front LCD. See the MDVR (IPS700A) Installer’s User Guide for complete instructions.
Connect to MDVR (IPS700A) - Wireless

To connect the tablet to MDVR using a wireless connection, use a router such as part number WRO-100 (sold separately). This method requires that the tablet dock be connected to a wall outlet in order to charge the tablet when needed.

Tablet can be mobile when using wireless communication

WRO-100 wireless router (sold separately)

AC power from:
- Equipment carrier
- Wall outlet
- Extension cord

Note: MDVR must have the type of tablet connection, wired (UART) or wireless, configured into the system through the front panel control keypad and small front LCD. See the MDVR (IPS700A) Installer’s User Guide for complete instructions.
Tablet Start-up

Turning Your Tablet On and Off

Press and hold the Power/Lock Key. If your device has fatal errors, hangs up, or freezes, you may need to reset the device to regain functionality. If your device is unresponsive, press and hold the Power/Lock Key for 8 to 10 seconds.

Interface Start-up

Using the FSN tablet control interface for MDVR (IPS700A)

After the tablet is turned on, the start-up screen appears. If a wired connection is being used, select UART to connect the tablet.

If connection to the MDVR is wireless, then the IP address of the MDVR will have to be determined. See the MDVR (IPS700A) Installer User’s Guide for instructions on how to determine the IP address.

- Make sure the router is properly connected and that power is on.
- Access the tablet’s system Wi-Fi setting and select the router name that is connected to MDVR.
- On the tablet start-up screen, select Connect.
- Enter the IP address for MDVR on the tablet, use dots instead of commas, avoid empty spaces.
- Select Connect.
After the tablet has established a connection with MDVR, the interface dashboard is displayed.

The Drop Down Menu

The drop down menu is accessed by pressing the three dots in the upper right hand corner. The drop down menu is located in the upper right hand corner of most screens within the tablet interface.

Recording List, Settings, and Settings2 are described in detail on the following pages.

Shutdown will exit the user interface, return to the tablet start-up screen, and display a prompt on IPS700A’s front LCD stating that the system is ready to be manually shut down.

Logout will exit the user interface, return to the tablet start-up screen.
Settings

Preferences and system configurations can be specified in the settings screens.

Select Settings from the drop down menu.

Format1, Format2
Selecting each field in the Format1 and Format2 areas will bring the following options.

- **Input Port**: Choose from: DVI-D, VGA, S-VIDEO, CVBS
- **Input Resolution**: Choose from: AUTO, 480p, 720p, 1080p
- **Audio Input**: Choose from: LINE-IN or MIC
- **Foot Pedal Type**: Choose from: TYPE 1 through TYPE 6
- **Image Format**: Choose from: BMP or DICOM
- **Max File Size**: Choose from: 700MB, 1000MB, 1500MB, 2000MB

Select Apply when finished.

Date and Time
Sets the current date and time. This setting will be used on captured and recorded images, and overrides the tablet’s operating system date and time. Select Apply when finished.

Network
These settings are used if a wireless connection is established between the tablet, the router, and MDVR. Select Apply when finished.

File Server
These settings are used for establishing a computer network connection in order to share files. Select Apply when finished.

Note: The drop down menu on the Settings screen has an extra item in the list, VGA auto adjust. This is used when VGA format is selected in the Input Port field.
Preferences and system configurations can be specified in the settings screens.

Select Settings2 from the drop down menu.

**Beep**
The audible beep sound can be turned off or on for image capture, video record start, and video record stop. Select Apply when finished.

**HDD**
Sets parameters for the hard disk drive. Auto clean will begin overwriting the oldest data stored within MDVR. The usage limit setting determines how much of the hard disk drive can be used for storage, for example 90=90%, 50=50%. Select Apply when finished.

**User**
These login ID and password settings are used for FTP networking. Data can be imported from MDVR/IPS700A through the use of an FTP program. Select Apply when finished.

**etc.**
These settings are used media output options such as USB, FTP and Display. When copying files to other media, Folder Creation will also copy folders and directories (if activated for USB/FTP). Image Auto Transmit will automatically send a captured image through FTP. Output Video Display enables or disables the video output ports. Select Apply when finished.

After all settings adjustments are complete, select Dashboard from the drop down menu to return to the main screen.
The Dashboard - Media Status

The top section of the dashboard screen, and other MDVR interface screens, shows the status of DVD or USB media that is connected to the system.

No connected media is displayed as gray type:

If connected media is detected, it will be displayed in green type:

Detailed information on available/free space for connected media can be found on the Recording List screen.

The Dashboard - Patient Information

The dashboard is where image capture and recording are initiated. However, before any images are properly saved, several pieces of information first need to be entered on the dashboard so that the recorded files can be attributed to the correct patient and doctor. Always using a unique patient ID and patient name will help manage recording sessions later on.

After login, the dashboard defaults to the most recent patient information. If the MDVR system is being used for the first time, the patient information fields will be gray as shown below.

Enter new patient information here.

Tap on the tablet screen fields and enter the required information.

After entering patient information, select Set Patient Info. This will make a new session entry in the recording list.

Any captured images or recorded video will be grouped with this patient information and shown in the recording list.
The Dashboard - Patient Information

The dashboard defaults to the most recent patient information. If the MDVR system has patient data and recorded files from a previous session, then that information will be displayed as shown in the example below.

Select Clear Patient Info* to ready the dashboard for new patient information.

Tap on the tablet screen fields and enter the required information.

After entering patient information, select Set Patient Info. This will make a new session entry in the recording list.

Any captured images or recorded video will be grouped with this patient information and shown in the recording list.

* If previous patient info is not cleared, any new recordings will be assigned to the previous patient’s session.
The Dashboard - Capture

Checklist prior to capture:
1. Desired information has been entered in the Settings screens.
2. Correct patient information has been entered and set in the Dashboard screen.
3. There is an active signal for capturing images.

Press to capture a still image. This button will briefly flash red and a beep will sound (if activated) when capturing.

All captured images will be grouped with the active patient information and sent to a session entry in the recording list.

NOTE: MDVR (IPS700A) always displays the most recent patient information on the dashboard, even if an empty patient record was created using the Set Patient Info button. Captured images and recorded video can be added to the most recent session. Older sessions cannot have additional images or video added at a later time. Sessions with zero images are discarded when a new session is created.
The Dashboard - Record

Checklist prior to recording:
1. Desired information has been entered in the Settings screens.
2. Correct patient information has been entered and set in the Dashboard screen.
3. There is an active signal for recording video.

Press to begin recording video. A beep will sound (if activated). Notice the recording timer on the left side of the screen turns red and begins to count seconds, minutes, and hours.

All recorded video will be grouped with the active patient information and sent to a session entry in the recording list.

Image capture is possible simultaneously during video recording.

Press to stop a recording. A beep will sound (if activated).
The Recording List

All captured images and recorded videos that are stored on the MDVR internal hard disk are shown on the Recording List screen.

Select Recording List from the drop down menu.

The Recording List screen shows all of the recording sessions that are present on the MDVR's internal storage. Each session in the list shows the patient name, start time, end time, if the recordings were transmitted to a server, and the number of files in the session. Select any one of the patient sessions in the list to reveal all of the recordings made during the session.
Select a single recording file to show complete details on the right side of the tablet screen.

### Image Description

- **One recording selected.**
- **Selected file size and available storage capacities for all connected media are shown here.**
- **Complete details for the recording are shown here.**
- **Select Back to return to the top level recording list.**
Working with Recording Files

To Play a Recording
Tap on one file in the recording list to select it. The information for the file will turn blue.

Next, select the Play button, and the recording will be displayed on the connected monitor.

This screen is shown as a recording is being displayed.
More than one file can be selected, however detail information cannot be shown for more than one selected file.

**Recording List Button Descriptions.**
Green buttons signify that the system is ready to perform the button’s action. Gray buttons signify that the system needs media or a connection before the button’s action can be completed.

- **This button will send all recording files for the active patient to connected USB media.**
- **This button will send all recording files for the active patient to connected FTP.**
- **This button will select all recording files shown on the screen.**
- **This button will send selected recording files to connected USB media.**
- **This button will send selected recording files to connected DVD media.**

- **This button will delete all recording files plus all top-level and detail information for non-active sessions.**
- **This button will de-select all recording files shown on the screen.**
- **This button will convert selected recording files to DICOM.**
- **This button will send selected recording files to connected FTP.**
- **This button will delete selected recording files. If all files for a patient are selected, all top-level and detail information will also be deleted for non-active sessions.**
Mechanical Drawing
Cleaning Instructions

CAUTION:
Before cleaning, switch the display into standby mode to prevent the tablet from being accidently activated. In standby mode the touch panel Tablet cannot be accidentally activated. To switch the display on again, press the standby key.

Note: The tablet is not disinfected or packed in a sterile environment. Follow your hospital protocol for the handling of blood and body fluids.

Keep the tablet away from liquids of any kind. Keep the tablet dry. Precipitation, humidity, and liquids contain minerals that will corrode electronic circuits. If the tablet does get wet, do not accelerate drying with the use of an oven, microwave, or dryer, because this may damage the mobile device and could cause a fire or explosion. Do not use the tablet with a wet hand. Doing so may cause an electric shock to you or damage to the tablet.

Clean the tablet with a diluted mixture of mild detergent and water applied to a soft towel or swab. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the tablet. Use of certain detergents may cause degradation to the labels and plastic components of the product. Consult cleanser manufacturer to see if agent is compatible. Do not allow liquid to enter the tablet.

Extreme heat or cold
Avoid temperatures below 0°C / 32°F or above 45°C / 113°F.

Microwaves
Do not try to dry your tablet in a microwave oven. Doing so may cause a fire or explosion.

Dust and dirt
Do not expose your tablet to dust, dirt, or sand.

Shock or vibration
Do not drop, knock, or shake the tablet. Rough handling can break internal circuit boards.

Paint
Do not paint the tablet. Paint can clog the device’s moving parts or ventilation openings and prevent proper operation.
Thank you for choosing our product.

**Service**
Please contact our customer service if you need any information or help with our products.

**Warranty**
One year, parts and labor.

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