MDR Video Touch

User Help

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Regulations and Compliance

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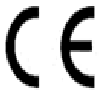
Symbols used in this document



European Economic Area certification mark

ISO 7000:3500 - Electronic Instructions For Use

To indicate on product or product packaging that relevant information for use of the product is available in electronic form rather than, or in addition to, printed paper form.

ISO 7000:3082 - Manufacturer

To identify the manufacturer of a product.

ISO 7000: 0434B – Caution

To indicate that caution is necessary when operating the device or control close to where the symbol is placed, or to indicate that the current situation needs operator awareness or operator action in order to avoid undesirable consequences.

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What is the MDR Video Touch?

The MDR Video Touch is a hardware device that captures and sends high resolution images and video from a wide range of modalities to PACS/VNA. It provides image and video capture and transfer at the point of care without the need for a workstation.

The MDR Video Touch connects to Pacsgear Core Server which handles security, configuration, and the flow of data between the modalities and destination DICOM systems. To configure Pacsgear Core Server settings, administrators can use a browser-based interface called Core Server Console (CS Console). You can launch CS Console from a PC or within the MDR Video Touch.

Indications for use

The MDR Video Touch is intended to be used by authorized staff to perform various operations on imaging studies before they are made available to other locations in the network. These operations include capturing images, capturing video, and confirming or editing patient demographics. The MDR Video Touch is not labeled for diagnostic use.

Find a patient record

To find a patient record, complete the following steps.

1. On the patient information screen, type all or part of the last name or the complete MRN to use as a search criterion. For example, in the **Last name** box, type `c` to query patients whose last names begin with the letter c.

   > **Note:** You can enter additional information to narrow your search results. To find the last-opened patient, tap **Last**.

2. Tap **Look Up**.
3. In the results list, tap a patient record to view studies, tap a study, and then tap **Select**.

Create a patient record

If there is no record for your patient in a configured source, you can create one. To create a patient record, complete the following steps.

1. On the patient information screen, in the **MRN** box, type the medical record number of the patient.

   > **Note:** When creating a patient, the MRN is the only required field.

2. Optional. Enter additional information in the available fields.
3. Tap **Start Exam**.

Result Pacsgear Core Server creates the record on the destination device after you complete the exam.

Capture and send an image

The MDR Video Touch can capture an image and send it to a destination. To capture and send an image, complete the following steps.

1. Find or create a patient record and tap **Start Exam**.
2. On the Record screen, tap **Capture Frame**.

   > **Note:** You can capture multiple images by tapping **Capture Frame** again.

3. Tap **End Capture and Send** and tap **Yes**.

Capture and send a video

The MDR Video Touch can capture video from a variety of modalities. To capture and send a video, complete the following steps.

1. Find or create a patient record and tap **Start Exam**.
2. On the image preview screen, tap **Record**.
3. When you are finished recording, tap **Stop**.

> **Note:** You can capture multiple videos by tapping Record and Stop again.

4. When you are done capturing videos, tap **End Capture and Send** and tap **Yes**.

Add a marker to an image and send

After capturing an image you can perform basic edits before sending. To add a marker to an image, complete the following steps.

1. Capture an image and tap **End Capture and Edit**.
2. On the edit screen, tap **Edit Image**.
3. Tap **Mark**.
4. In the right pane, tap a marker and tap the image where you want to place the marker.
5. Tap **Done**.

> **Note:** You can undo all unsaved edits by tapping the **Undo All** button.

6. Tap **Save and Close** and tap **Yes**.
7. To send the image, tap **Send**.

> **Note:** To return to the capture screen, tap **Resume Exam**.

Crop and send an image

After capturing an image you can perform basic edits before sending. To crop and send an image, complete the following steps.

1. Capture an image and tap **End Capture and Edit**.
2. On the edit screen, tap **Edit Image** and tap **Crop**.

> **Note:** You can undo all unsaved edits by tapping the **Undo All** button.

3. Tap **Save and Close** and tap **Yes**.
4. To send the image, tap **Send**.

> **Note:** To return to the capture screen, tap **Resume Exam**.

Rotate, flip, and send an image

After capturing an image you can perform basic edits before sending. To rotate, flip, and send an image, complete the following steps.

1. Capture an image and tap **End Capture and Edit**.
2. On the edit screen, tap **Edit Image**.
3. Tap **Rotate**.
4. In the right pane, tap a button to rotate the image 90 or -90 degrees, or to flip the image vertically or horizontally.
5. Tap **Done**.

   Note: You can undo all unsaved edits by tapping the **Undo All** button.

6. Tap **Save and Close** and tap **Yes**.
7. To send the image, tap **Send**.

   Note: To return to the capture screen, tap **Resume Exam**.

Add a label to an image and send

After capturing an image you can perform basic edits before sending. To add a label to an image and send, complete the following steps.

1. Capture an image and tap **End Capture and Edit**.
2. On the edit screen, tap **Edit Image**.
3. Tap **Label**, type a label for the image, and then tap **OK**.
4. Drag the label from the top of the screen onto the image where you want the label to appear and tap **Done**.

   Note: You can undo all unsaved edits by tapping the **Undo All** button.

5. Tap **Save and Close** and tap **Yes**.
6. To send the image, tap **Send**.

   Note: To return to the capture screen, tap **Resume Exam**.

Configure a trigger event

You can configure which event occurs when you engage a trigger. To configure a trigger event, complete the following steps.

1. On the patient information screen, tap **Settings**.
2. On the settings screen, under **Hardware**, tap **Trigger Events**.
3. On the **Trigger Events** screen, tap the list of the trigger that you want to configure.
4. In the list of events, select an event and tap **OK**.
5. Tap **Save** and tap **Yes**.

Configure video settings

The MDR Video Touch detects connected video devices, and can automatically configure some video settings. To configure video settings manually, complete the following steps.

1. On the patient information screen, tap **Settings**.
2. On the settings screen, under **Hardware**, tap **Video**.

3. To configure the **Max. Frame Rate**, **Codec**, or **Bit Rate**, tap the corresponding list, select a value, and then tap **OK**.
4. To automatically overlay patient information on images, select the **Patient Demographic Overlay** check box.
5. To automatically crop videos, select the **Autocrop Frames** check box.
6. Tap **Crop Boundary**, enter coordinates, and then tap **OK**.
7. Tap **Save** and tap **Yes**.

Configure audio settings

The MDR Video Touch detects connected audio devices, and can automatically configure some audio settings. To configure audio settings manually, complete the following steps.

1. On the patient information screen, tap **Settings** and tap **Audio**.
2. To configure audio settings, complete one or more of the following actions.
   - To enable recording, select the **Record audio** check box.
   - To select an audio device, tap the **Device** list, select a device, and then tap **OK**.
   - To adjust the recording level, under **Recording Level**, tap the left and right arrows.
   - To record in stereo, select the **Stereo** check box.
   - To adjust the bit rate, tap the **Bit Rate** list, select a bit rate, and then tap **OK**.
3. Tap **Save** and tap **Yes**.

Adjust the system volume

You can adjust the volume of the MDR Video Touch speakers. To adjust the system volume, complete the following steps.

1. On the patient information screen, tap **Settings**.
2. On the settings screen, under **Hardware**, tap **System Volume**.
3. To adjust the volume, tap the up and down arrow buttons.
4. Optional. To mute audio, tap the speaker button.
5. Tap **Close**.

Change the current department

An administrator pre-configures query, destination, and other settings for deployed MDR Video Touch units by department. To change the current department and optionally edit department settings for your MDR Video Touch, complete the following steps.

1. On the patient information screen, tap **Settings**.
2. On the settings screen, under **Connections**, tap **Departments**.
3. Tap the **Department** list, select a department, and then tap **OK**.
4. Optional. To edit the settings associated with the department that you selected, complete the following substeps.
   1. Tap the **Lookup** list, select a source to use for patient queries, and then tap **OK**.
   2. Tap the **Destination** list, select a PACS, VNA, or other destination device, and then tap **OK**.
   3. Tap the **Modality** list, select a default modality, and then tap **OK**.

   Note: You can also change the modality on the patient information screen during the exam.

4. In the **Station name** box, type a unique name for your MDR Video Touch.
5. Tap **Save** and tap **Yes**.

Open CS Console

CS Console is the web interface with which you can modify settings on Pacsgear Core Server. To open CS Console from the MDR Video Touch, complete the following steps.

1. On the patient information screen, tap **Settings**.
2. On the settings screen, under **Connections**, tap **Server Config**.

Change connection settings

The MDR Video Touch connects to Pacsgear Core Server through your network. To change settings related to this connection, complete the following steps.

1. On the patient information screen, tap **Settings**.
2. On the settings screen, under **Connections**, tap **General**.
3. On the **General Settings** screen, under **PACSGear Core Server**, type the address of your server.
4. To test the connection to the server, tap **Test Connection**.

   > **Note:** If the test is unsuccessful, contact your network administrator.

5. Optional. To edit other server options, complete the following substeps.
   1. To enable remote configuration of your MDR Video Touch, select the **Allow remote config via HTTP** check box.
   2. To apply study descriptions from a worklist to patient records that you find, select the **Use study descriptions from worklist** check box and tap **Refresh Worklist**.
   3. If you want the MDR Video Touch to fill in your login credentials the next time you log in, select the **Remember me** check box.

Change language settings

You can change the language of the user interface and keyboard, and the date format. To change language settings, complete the following steps.

1. On the patient information page, tap **Settings**.
2. On the settings page, tap **General**.
3. On the **General Settings** page, tap **Localization**.
4. Select the **Language**, **Keyboard**, or **Date Format** list, select a language or format, and then click **OK**.
5. Tap **Save**.

What is a job?

A job is a collection of information about a send operation that the MDR Video Touch creates when you send data to a destination. This information includes who sent the data, when, and from where. It also includes the job status, which is the result of the send operation. You can view job history or details, resend a failed job, and cancel a send job while in progress.

View a job

You can view details about a completed or failed job. To view a job, complete the following steps.

1. On the patient information screen, tap **Settings**.
2. On the settings screen, under **MDR**, tap **Job Status**.
3. In the list of jobs, tap a job and tap **Details**.

Cancel a job

You can cancel a failed job or a job in progress. To cancel a job, complete the following steps.

1. On the patient information screen, tap **Settings**.
2. On the settings screen, under **MDR**, tap **Job Status**.
3. In the list of jobs, select a job and tap **Delete**.

Resend a job

You can attempt to resend a failed job. To resend a job, complete the following steps.

1. On the patient information screen, tap **Settings**.
2. On the settings screen, under **MDR**, tap **Job Status**.
3. In the list of jobs, select a job and tap **Resend**.

About managing connection settings

Since Lexmark client products work in conjunction with other DICOM devices over a network, it is necessary to configure connection settings for those clients. You can manage the following four categories of connection settings.

Destinations

A destination is a user-specified set of DICOM, HL7, XDS, or other device configurations. By creating a destination, you can send studies or HL7 messages to multiple devices at once. Destinations are optional.

Query sources

A query source is a DICOM worklist server, archive, or other source that can respond to patient queries. To query patient studies by using a client, you must configure at least one query source. For information on the query sources available at your institution, contact your PACS administrator.

Devices

A device is an HL7 server, DICOM archive, XDS repository, or other system to which you can send HL7 messages, DICOM images, or media and metadata for processing or storage. To send images by using a client, you must configure at least one device. For information on the devices available at your institution, contact your PACS administrator.

DICOM Trace

DICOM Trace is a function that captures raw event data flowing between DICOM devices and Pacsgear Core Server. This data is useful for server diagnostics. For DICOM trace data to be available to view, you must enable the function prior to any server activity.

Add a destination

To add a destination, complete the following steps.

1. In CS Console, on the **Settings** menu, tap **Connections**.

2. On the **Connection Settings** page, on the **Destinations** tab, tap **Add**.
3. In the **Add/Edit Destination** dialog box, complete the following substeps.
    1. In the **Name** box, type a name for the destination.
    2. Optional. In the **Description** box, type a description of up to 65 characters to appear at the bottom of the image.

       Note: A description can help you remember the purpose of each destination, especially if there are a large number of destinations.

    3. In the list of devices, select one or more check boxes corresponding to the devices that you want to include in the destination.
4. Tap **Save**.

Edit a destination

To edit an existing destination setting, complete the following steps.

1. In CS Console, on the **Settings** menu, tap **Connections**.
2. On the **Connection Settings** page, select the **Destinations** tab.
3. In the list of destinations, tap the name of the destination.

   Note: If the destination that you want to edit does not appear on the first page of the list, tap the navigation buttons at the bottom of the list or type all or a portion of the destination name in the **Search** box.

4. In the **Add/Edit Destination** dialog box, edit the information as needed and tap **Save**.

Add a query source

To add a query source, complete the following steps.

1. In CS Console, on the **Settings** menu, tap **Connections**.
2. On the **Connection Settings** page, on the **Query Sources** tab, tap **Add**.
3. In the **Add/Edit Query Source** dialog box, complete the following substeps.
    1. In the **Protocol** list, select the protocol of the query source.
    2. In the **Name**, **AE title**, **IP address**, and **Port** boxes, type or select information for the query source.
    3. To select how you want the MDR Video Touch to handle the study UID, in the **Study UID** list, select an option.
    4. To limit the number of query results that the source returns, in the **Date range** list, select an option.
    5. To enable querying of post-dated studies, select the **Include future dates** check box.
    6. To test whether the console can connect to your query source, tap **Test**.

       Note: If the test is unsuccessful, confirm that you entered the correct settings, or contact your PACS administrator.

4. Tap **Save**.

Edit a query source

To edit a query source, complete the following steps.

1. In CS Console, on the **Settings** menu, tap **Connections**.
2. On the **Connection Settings** page, select the **Query Sources** tab.
3. In the list of query sources, tap the name of the query source.

   Note: If the query source that you want to edit does not appear on the first page of the list, tap the navigation buttons at the bottom of the list, or type all or a portion of the query source information in the **Search** box.

4. In the **Add/Edit Query Source** dialog box, edit the information as needed and tap **Save**.

Add a device

To add a device, complete the following steps.

1. In CS Console, on the **Settings** menu, tap **Connections**.
2. On the **Connection Settings** page, on the **Devices** tab, tap **Add**.
3. In the **Add/Edit Device** dialog box, in the **Device Type** list, select the type of device and enter device-specific settings.
4. To test whether the console can connect to your device, tap **Test**.

   Note: This is only for DICOM devices. If the test fails, confirm that you entered the correct settings, or contact your PACS administrator.

5. Tap **Save**.

Edit a device

To edit an existing device, complete the following steps.

1. In CS Console, on the **Settings** menu, tap **Connections**.
2. On the **Connection Settings** page, select the **Devices** tab.
3. In the list of devices, tap the name of the device.

   Note: If the device that you want to edit does not appear on the first page of the list, tap the navigation buttons at the bottom of the list or type all or a portion of the device information in the **Search** box.

4. In the **Add/Edit Device** dialog box, edit the information as needed and tap **Save**.

What is a department?

A department is a saved configuration that makes it easy to configure clients of Pacsgear Core Server for use in specific departments at a healthcare institution. A department includes settings for application entity (AE) title, modality, query sources, destinations, and series descriptions. You must configure any destinations and query sources that you want to use before configuring departments (see Manage connection settings).

All clients use the default department General unless you specify otherwise. You must add at least one department in CS Console before you can change the default or current department. If you change the current department while a task is in progress, the client discards all current images and data.

Add a department

To add a new department, complete the following steps.

1. In CS Console, on the **Settings** menu, tap **Departments**.
2. On the **Departments** page, tap **Add**.
3. Optional. To make this department the default department, in the **Add/Edit Department** dialog box, select the **Default** check box.
4. In the **Name** box, type a name for the department.
5. Optional. In the **AE title** box, type an AE title to use when you select the department.
6. Optional. In the **Modality** list, select the modality to use when you select the department.

   Note: If you select None, the MDR Video Touch uses the modality that you select in the connection settings.

7. On the **Destinations** and **Query Sources** tabs, select the check boxes corresponding to the destinations and query sources that you want to use with the department.
8. On the **Series** tab, tap **Add**, type a description, and then tap **Save**.

   Note: You can repeat this step to add additional descriptions. The descriptions that you enter here are available to add to studies on the MDR Video Touch.

9. In the **Add/Edit Department** dialog box, tap **Save**.

Edit a department

To edit an existing department, complete the following steps.

1. In CS Console, on the **Settings** menu, tap **Departments**.
2. On the **Departments** page, tap the name of the department.
3. In the **Add/Edit Department** dialog box, change the settings as needed.
4. Tap **Save**.

Change the default department

To change the default department, complete the following steps.

1. In CS Console, on the **Settings** menu, tap **Departments**.
2. On the **Departments** page, in the list of departments, select the check box in the **Default** column corresponding to the department that you want to be the default.

About managing user access

To manage access to the MDR Video Touch and CS Console, you can add users and assign administrator rights to authorized users.

You can configure the MDR Video Touch to restrict access to local users or LDAP/Active Directory users. The internal server or external instance of Pacsgear Core Server verifies local users based on the settings that you specify in this section. Your LDAP/Active directory server verifies LDAP users.

Configure an LDAP/Active Directory server

To configure an LDAP/Active Directory server, complete the following steps.

1. In CS Console, on the **Settings** menu, tap **Users**.
2. Under **Restrict access permissions to**, tap **LDAP Users**.
3. In the **Server** and **Domain** boxes, type the address and domain of the LDAP/Active Directory Server.
4. Tap **Test**.

   Note: If the test fails, confirm that your settings are correct, or contact your network administrator. You cannot save the LDAP settings until the test succeeds, and you add at least one LDAP user to the list.

5. Tap **Save**.

Assign access permissions

To assign access permissions by verification type, complete the following steps.

1. In CS Console, on the **Settings** menu, tap **Users**.
2. Under **Restrict access permissions to**, tap **Local Users** or **LDAP Users**.
3. Tap **Save**.

Add a local user

You can add local users and assign them administrative rights. Administrators can edit many CS Console settings in the left pane that normal users cannot. To add a local user, complete the following steps.

1. In CS Console, on the **Settings** menu, tap **Users**.
2. Under **Restrict access permissions to**, tap **Local Users**.
3. At the bottom of the page, tap **Add**.
4. In the **Add/Edit User** dialog box, type a user name and password.
5. Optional. To assign administrative rights to the user, select the **Administrator** check box.
6. Tap **Save**.

Add an LDAP user

When you enable LDAP, any user on the LDAP server can log in to the MDR Video Touch with limited rights. However if you want a user to have administrative rights, you must add them as an LDAP user in Pacsgear Core Server. To add an LDAP user, complete the following steps.

1. In CS Console, on the **Settings** menu, tap **Users**.
2. Under **Restrict access permissions to**, tap **LDAP Users**.
3. At the bottom of the page, tap **Add**.
4. In the **Add/Edit User** dialog box, type a user name that you already configured on your LDAP/Active Directory server.
5. Tap **Save**.

Edit a user

To edit an existing user, complete the following steps.

1. In CS Console, on the **Settings** menu, tap **Users**.
2. Under **Restrict access permissions to**, tap the button corresponding to the type of user that you want to edit (**Local Users** or **LDAP Users**) and tap a user name.

Note: If the user that you want to edit does not appear on the first page of the list, tap the navigation buttons at the bottom of the list or type all or a portion of the user information in the **Search** box.

3. In the **Add/Edit User** dialog box, edit the user settings as needed and tap **Save**.

View a job

To view a job in CS Console, complete the following step.

1. In CS Console, on the **Logs** menu, tap **Jobs**.

Note: If the job that you want does not appear on the first page of the list, tap the navigation buttons at the bottom of the list or type all or a portion of the job information in the **Search** box.

Cancel a job

To cancel a job in CS Console, complete the following steps.

1. In CS Console, on the **Logs** menu, tap **Jobs**.
2. Select the job and tap **Cancel**.

Note: If the job that you want does not appear on the first page of the list, tap the navigation buttons at the bottom of the list or type all or a portion of the job information in the **Search** box.

Restart a job

To restart a job in CS Console, complete the following steps.

1. On the **Logs** menu, tap **Jobs**.
2. Select the job and tap **Retry**.

Note: If the job that you want does not appear on the first page of the list, tap the navigation buttons at the bottom of the list or type all or a portion of the job information in the **Search** box.

Edit a server setting

To edit a server setting, complete the following steps.

1. In CS Console, on the **Settings** menu, tap **Server**.
2. On the **Server Settings** page, tap **Edit**.
3. Complete one or more of the following options.
   - To turn off recording of server logs, clear the **Enable debug** check box.
   - In the **Session timeout** box, type the number of minutes until the connection to the server times out if a mobile device remains inactive.
   - In the **Max. retries** box, type the maximum number of times that the server attempts to reconnect after a lost connection.
   - In the **Retry intervals** box, type the number of seconds between attempts to reconnect.
4. Tap **Save**.

View an audit log

When you enable auditing, you can view audit logs showing user and device access to the server. To view an audit log, complete the following steps.

1. In CS Console, on the **Logs** menu, tap **Audit**.

   > **Note:** If the log entry that you want is not on the first page of the list, tap the navigation buttons at the bottom of the list or type all or a portion of the log entry in the **Search** box.

2. To display study details, tap the plus sign (+) next to the log entry that you want to view.

View server log

If you selected the Enable debug check box in the server settings, you can view server logs containing server-specific events such as errors and changes in connection statuses. To view a server log, complete the following step.

1. In CS Console, on the **Logs** menu, tap **Server**.

   > **Note:** If the log entry that you want is not on the first page of the list, tap the navigation buttons at the bottom of the list or type all or a portion of the log entry in the **Search** box.

Enable DICOM Trace

To enable DICOM Trace, complete the following steps.

1. In CS Console, on the **Settings** menu, tap **Connections**.
2. Under **AE Title**, select the **Enable trace** check box.
3. Tap **Save**.

View DICOM Trace

To view DICOM trace data, complete the following step.

1. In CS Console, on the **Tools** menu, tap **DICOM Trace**.

Edit a default setting

Defaults are optional site information and settings that the server automatically includes with studies as DICOM metadata. To edit a default setting, complete the following steps.

1. In CS Console, on the **Settings** menu, tap **Defaults**.
2. On the **Defaults** page, tap **Edit**.
3. Complete one or more of the following options.
   - In the **Manufacture** box, type the manufacturer of the sending device. The default value is `LEXMARK`.
   - In the **Institution** box, type the name of your institution.
   - In the **Secondary capture model** box, type the model of the sending device.
   - In the **Serial number** box, type the serial number of the sending device.
   - In the **Software version** box, type the version number of the secondary capture model.
   - In the **Modality** list, select a default modality according to how you want systems that open images to process them.

4. Tap **Save**.