SONY®

Media Gateway

Help

Software Version 2.8

PWA-MGW1

Overview

Media Gateway is software for archiving files stored on a server in a 4K-Live system to media and for retrieving files stored in media.

The following media are supported. Note that an option key is required in order to use media other than Optical Disc Archive cartridges. For details about the option key, consult your local Sony service or sales representative.

- Internal storage
- Optical Disc Archive cartridges (hereinafter referred to as "cartridges")
- Hard disk drives
- SxS memory cards
- Professional Discs
- Network drives

Alternatively, files can also be archived on third-party servers.

Operation Screens

This section describes the names and functions of the software screens.

- Home screen
- External screen
- Settings screen
  - My Settings page
  - PRC Manager page
  - Server page
  - Media page
  - External page
  - Users page
  - Maintenance page
  - Transcode page
  - Misc. page

Home Screen

Archive and retrieve operations are performed from this screen.

The Home screen is made up of the following sections.
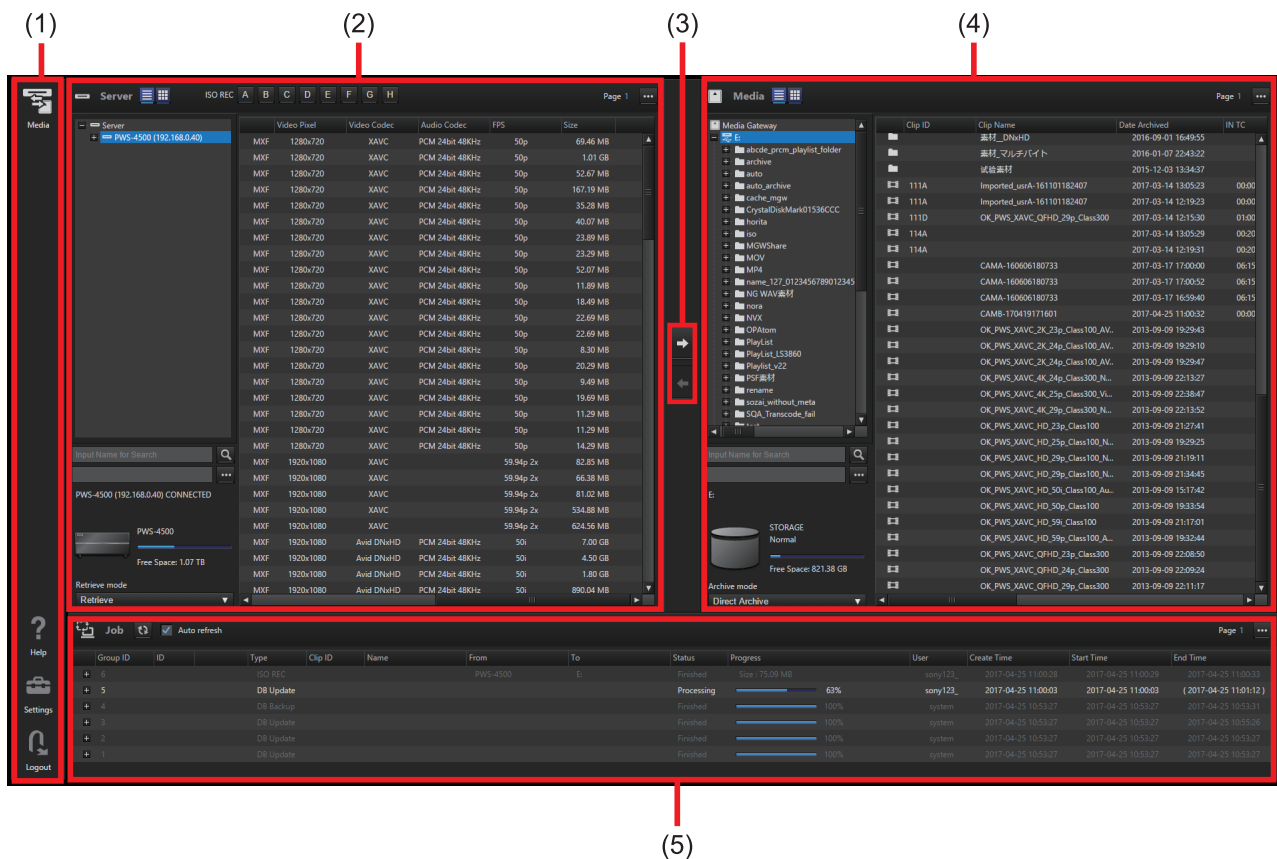
Common operations

Tree area (left side of Server/Media area)

- Multiple selections are not supported.

List area (right side of Server/Media area, Job area, [Placeholder] dialog)

The window operation is analogous to the operation in Explorer.

- Select multiple files using the Shift key or Ctrl key.
- Select all files using Ctrl+A.

(1) Global menu

Click the icons to move between screens.

- (Media): Displays the screen for archiving/retrieving between media, such as ODS cartridges.
- (External): Displays the screen for archiving to third-party servers. This icon is not displayed if a third-party server is not configured on the Settings screen.
- (Help): Displays the Help and version information.
- (Settings): Displays the Settings screen.
- (Logout): Logs the user out.

(2) Server area

Displays a list of files on the server (PWS-4500/BPU4800).

When archiving, select the files to archive. When retrieving, select the save destination of the files to retrieve.
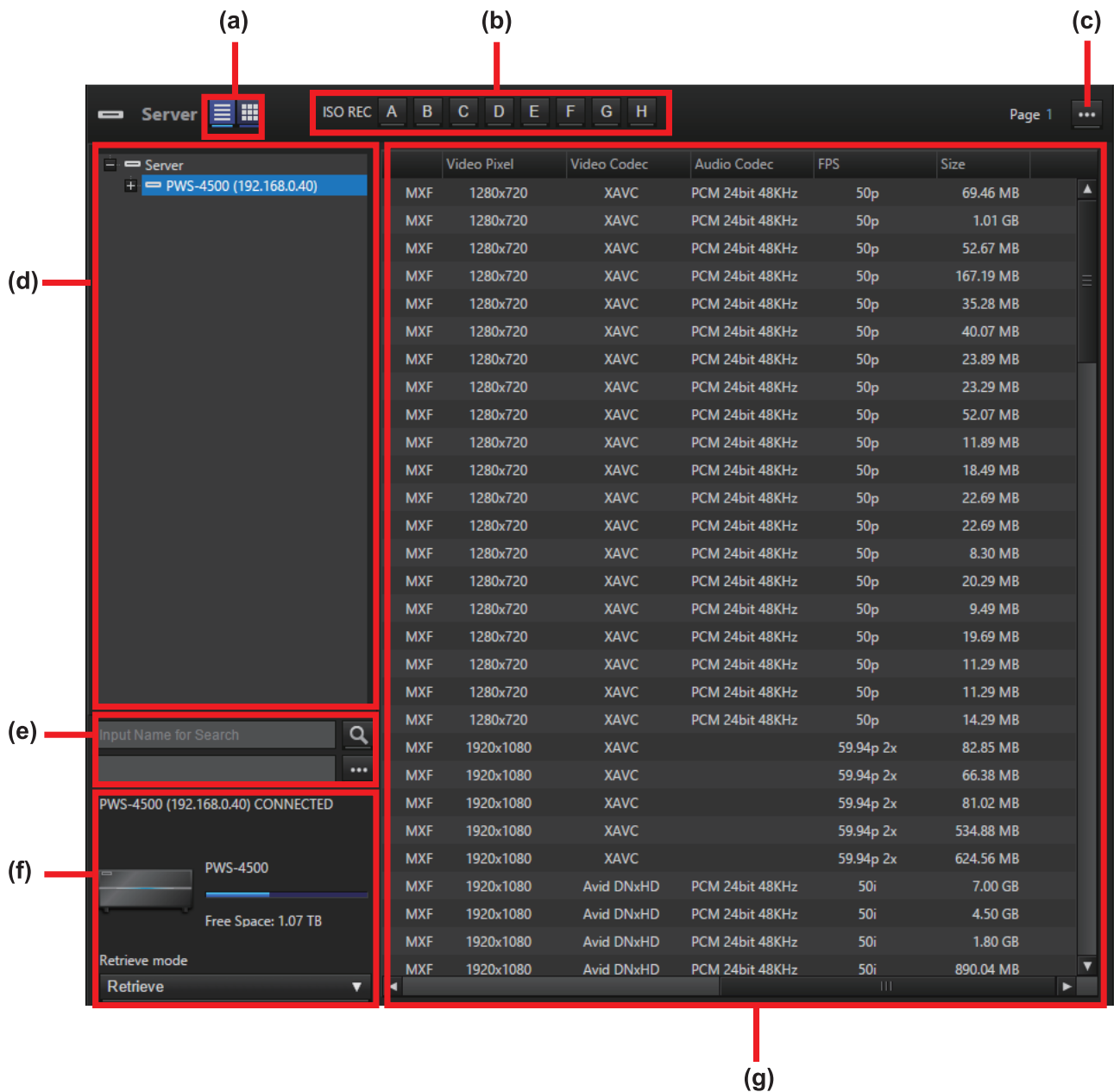
(a) Display view select buttons

Switches the display in the list area between list view and tile view.

(b) ISO REC button

There is a button for each camera ID. Clicking a button simultaneously records the file being recorded on the server to media in parallel. For details, see "Recording Files to Media when Recording on a Server (ISO REC)."

(c) Pull-down menu

Clicking [...] displays a pull-down menu. The pull-down menu contains the following menu items.

- Delete: Deletes the selected files.
- Rename Clip: Renames the selected clip.
- Open Placeholder: Opens the [Placeholder] dialog. The Placeholder is a virtual folder for temporarily storing files when archiving files from different servers at the same time. This menu item is not displayed if [External] is selected in the global menu.

5

- ISO REC Settings: Displays the [ISO REC Mode] dialog for configuring the live transfer of files being recorded on a server directly to media. This menu item is not displayed if [External] is selected in the global menu.
- Select Column: Selects the items to display in the list area of the Server area.
- Stop: Stop transcoding on the BPU4800.

(d) Tree area

Displays the servers. It can display multiple servers.

(e) Search area
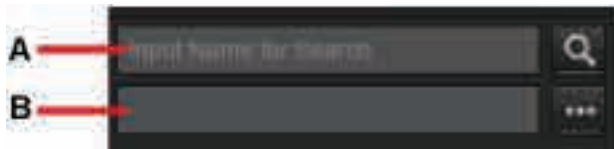
Searches the files in media. Free word search and searching using combinations of multiple search keys are supported.

Free word search

1. Select the media or folder to be searched in the tree area.
2. Enter the character string for which to search in field A.
   You can search all items displayed in the list area.
   IN TC and Duration must be a perfect match. You can search for a partial match for Clip ID, File Name, Clip Name, Keyword, Memo, Date Modified, Type, Video Codec, Audio Codec, Archived Date, Creation Date, Video Pixel, and FPS. To search by size, the actual file size must match exactly.
   You can perform an OR search by separating keywords with a space character.
3. Click the button.
   The search results are displayed in the list area.

Searching using a combination of multiple search keys

1. Select the media or folder to be searched in the tree area.
2. Click .
   The [Server Search] dialog appears.
3. Specify the search conditions in the dialog.
   Items where a character string can be entered directly are searched for a partial match. You can perform an OR search by separating keywords with a space character.
4. Click the [AND Search] button or [OR Search] button.
   The specified search keys are displayed in field B, and the search results are displayed in the list area.

(f) Server information display

Displays information for the selected server, and selects the retrieve mode. The following items are displayed.

- Server name
- Free space on server (with bar display)

> **Note**
>
> Depending on the media status, there may be a difference between the capacity displayed and the capacity that can actually be used.

Retrieve mode

Selects the retrieve mode when retrieving to the selected server. Normal retrieval and transcode options can be selected. Transcode settings are configured on the [Transcode] page of the Settings screen.

(g) List area

The following items are displayed in the file list. You can select the display items using [Select Column] in the pull-down menu.

- Clip ID: ID assigned in the following format (Page value + Bank value + Clip No. + Camera ID)
- File Name: File name (not displayed by default)
- Clip Name: Clip name
- Rating: Evaluation (not displayed by default)
- Keyword1 to Keyword5: Keywords (not displayed by default)
- Memo: Memo (not displayed by default)
- Date Modified: Date and time when the file was last modified
- Duration: Length of material
- File Type: File extension (MXF/MOV)
- Video Resolution: Video resolution
- Video Codec: Video codec
- Audio Codec: Audio codec
- FPS (Frequency): Frame rate
- Size: File size
- Colors: Color tags (not displayed by default)
- Transcode status icon: BPU4800 transcode status

  No icon: Not transcoding or transcoding completed

  : Transcode pending

  : Transcoding in progress

(3) Transfer buttons

 (Archive) button

Archives files from the server to media. Archiving is performed in the archive mode selected in the Media area.

 (Retrieve) button

Retrieves files from media to the server. Retrieving is performed in the retrieve mode selected in the Server area.

(4) Media area

Displays a list of the media and the files and folders archived on media. Double-clicking a file displays the preview. Files on cartridges cannot be previewed.

When archiving, select the destination of the file to be stored. When retrieving, select the files to retrieve.

The External screen is displayed in this area if [External] is selected in the global menu.
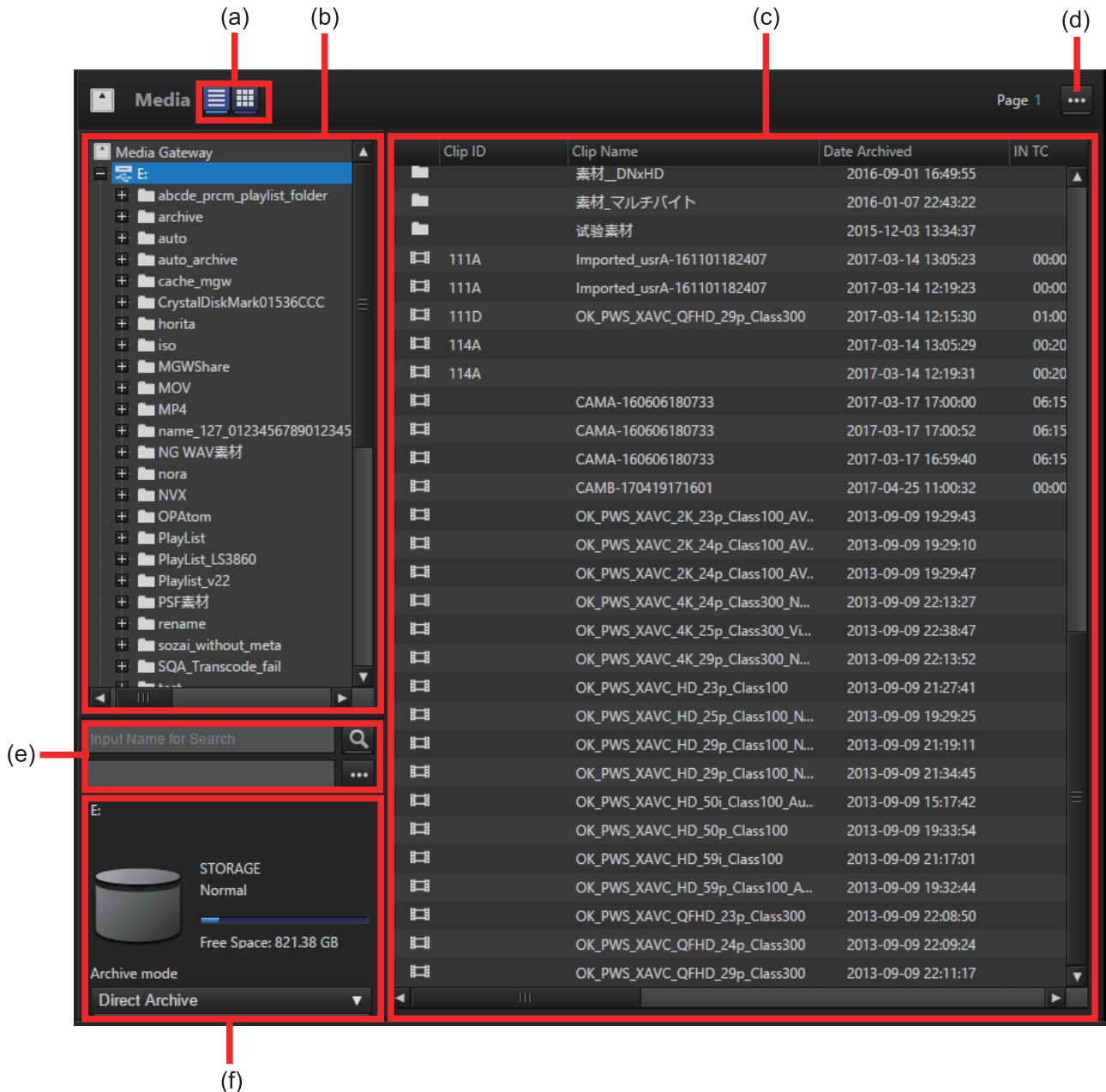
(a) Display view select buttons

Switches the display in the list area between list view and tile view.

(b) Tree area

Displays media and folders on media in tree view.

Clicking a folder in the tree refreshes the display of that folder and subfolders with the latest status.

(c) List area

Displays a list of folders and files (MXF/MOV/MP4/XML/WAV/AAF) on media. Double-clicking an MXF/MP4 file launches Catalyst Browse for previewing the file. Double-clicking a WAV file plays the file in Windows Media Player. Files on cartridges cannot be played.

> **Notes**
>
> - When using Catalyst Browse, set [Video Processing Device] to "CPU" in the Catalyst Browse settings.
> - If archiving to or retrieving from Professional Disc is started while Catalyst Browse is running, Catalyst Browse automatically exits.
> - Catalyst Browse is software used for simple previewing of content. Playback in real-time is not guaranteed.

The following items are displayed in the list area.

- Clip ID: ID assigned in the following format (Page value + Bank value + Clip No. + Camera ID)
- File Name: File name (Not displayed by default. Strings, such as "#02#" provide information that indicates the scale factor for high-frame rate shooting, and should not be deleted)
- Clip Name: Clip name
- Rating: Evaluation (not displayed by default)
- Keyword1 to Keyword5: Keywords (not displayed by default)
- Memo: Memo (not displayed by default)
- Date Archived: Date and time when the file was archived
- IN TC: In-point timecode
- Duration
- Creation Date: Date and time when the file was created
- File Type: File extension (MXF/MOV/MP4/XML/WAV/AAF)
- Video Resolution: Video resolution
- Video Codec: Video codec
- Audio Codec: Audio codec
- FPS (Frequency): Frame rate
- Size: File size
- Colors: Color tags (not displayed by default)
- Archive icon: Archive status
  No icon: Archived (can be retrieved in this state only)

  : Archiving

  : Error occurred during archiving

  : Checking file status

  : Recorded file spans more than one disc

  : File for which an error occurred during retrieval or during transfer to the destination folder when retrieving from a Watched Folder

(d) Pull-down menu

Clicking displays a pull-down menu. The pull-down menu contains the following menu items.

- Delete: Deletes the selected files or folders.
- Rename: Renames the selected file. The first four characters of the file name form the Clip ID, and the subsequent characters form the Clip Name. Folders on media other than NAS cannot be renamed.
- Mirror Mode Setting: Configures HDD mirror mode settings.
- Open Placeholder: Opens the [Placeholder] dialog. The Placeholder is a virtual folder for temporarily storing files when archiving files on different media at the same time or when retrieving files from different folders at the same time.
- Create Folder: Creates a new folder on the selected media.
- Export Metadata: Exports metadata and thumbnail information for all archived files. This is valid for cartridges only.
- Remake Metadata: Loads the exported metadata and thumbnails, and rebuilds the cartridge information.
- Select Column (list display selection): Selects the items to display in the list area of the Media area.
- Update List: Reacquires list area information. After running [Update List], clicking in the tree area updates the list area display.

(e) Search area

Searches the files in media. Free word search and searching using combinations of multiple search keys are supported.

Free word search

1. Select the media or folder to be searched in the tree area.
2. Enter the character string for which to search in field A.

   You can search all items displayed in the list area.

   IN TC and Duration must be a perfect match. You can search for a partial match for Clip ID, File Name, Clip Name, Keyword, Memo, Date Archived, Type, Video Codec, Audio Codec, Creation Date, Video Pixel, and FPS. To search by size, the actual file size must match exactly.

   You can perform an OR search by separating keywords with a space character.

3. Click the button.

   The search results are displayed in the list area.

Searching using a combination of multiple search keys

1. Select the media or folder to be searched in the tree area.
2. Click .

   The [Media Search] dialog appears.
3. Specify the search conditions in the dialog.

   Items where a character string can be entered directly are searched for a partial match. You can perform an OR search by separating keywords with a space character.

4. Click the [AND Search] button or [OR Search] button.

   The specified search keys are displayed in field B, and the search results are displayed in the list area.

(f) Media information display

Displays information for the selected media, and selects the archive mode. The following items are displayed.

- Media name
- Connection protocol for USB connected drives (2.0, 3.0, Unknown)
- Media status (NORMAL, READ ONLY, ERROR, CHECKING, FORMATTING, FINALIZING, EJECTING)
- Media type (Internal Storage, HDD, ODA, PD, SxS, Network Drive)
- Free space on media (with bar display)

> **Note**
>
> Depending on the media status, there may be a difference between the capacity displayed and the capacity that can actually be used.

 (Eject) button

Ejects the media, if the media is a cartridge, Professional Disc, or SxS memory card. For SxS memory cards, the memory card is unmounted only. Note that for cartridge media, thumbnails and metadata information is not saved if the cartridge is ejected using the eject button on the ODS drive instead of using this button.

Archive mode

Selects the archive mode when archiving to the selected media. Direct archive, cached archive, and transcode options can be selected. Transcode settings are configured on the [Transcode] page of the Settings screen.

(5) Job area

Displays a list of archive, retrieve, and other jobs.

Multiple files and folders to be archived/retrieved in a single operation form a single job group.

Processing a single file in a job group counts as a single job. Job groups are displayed in the Job area. Clicking the "+" mark for a job group displays each job in the group.
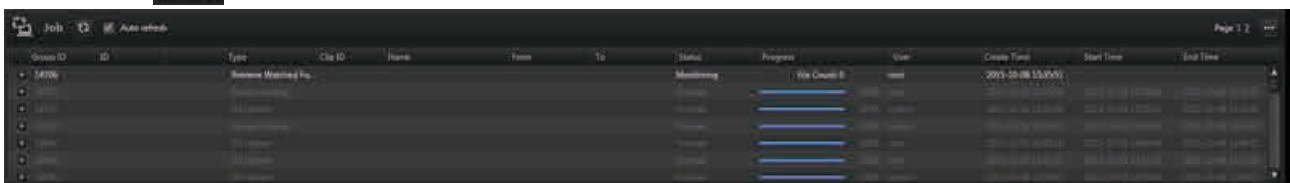
Registered jobs are processed in the background. The order of job execution may differ from the order of registration.

If a job has failed, the job is displayed highlighted.

Jobs in the Job list can be canceled, but the order of execution cannot be changed.

Clicking the button refreshes the display with the latest status.

Pull-down menu

Clicking displays a pull-down menu. The pull-down menu contains the following menu items.

- Stop: Stops processing of the selected job or job group.

  > **Note**
  >
  > Jobs cannot be stopped in the following cases.

    - If a user with general user privileges tries to stop a job registered by a user with administrator privileges
    - Jobs for which a cancel request has already been received (🔴 mark is displayed)

- Display Job Report: Displays a report for jobs in the selected job group when a job fails or is stopped.
- Select Job Status: Selects the status of the job displayed in the Job area.
- Select Column: Selects the items to display in the Job area.

Job list

Displays the following job list items.

- Job Group ID
- Job ID
- 🔴 : Jobs for which a stop request has been received
- Type: Job type
    - DIRECT ARCV: Direct archive files
    - CACHED ARCV: Normal archive files
    - RETRIEVE: Retrieve files
    - TRANS ARCV: Transcode archive files
    - TRANS RTRV: Transcode retrieve files
    - ISO REC: Transfer files when recording on server
    - DELETE: Delete files on media
    - RENAME: Rename a file
    - HOSTNAME: Rename the server
    - REMAKE METADATA: Generate metadata
    - RELOAD CATALOG: Reload a catalog
    - EJECT CARTRIDGE: Eject media
    - FORMAT: Format media
    - FINALIZE: Finalize media
    - WRITE PROTECT ON: Set write protection
    - WRITE PROTECT OFF: Turn off write protection
    - DB UPDATE: Read media information
    - RETRIEVE WATCHED FOLDER: Monitor and retrieve watched folder
    - SHUTDOWN (FAST): Terminate service after "Stand-by & Processing" jobs are finished
    - SHUTDOWN (NORMAL): Terminate service after all jobs are finished
- ClipID: Clip ID
- Name: File name
- From: Archive-source server name or retrieve-source media path
- To: Archive-destination media path or retrieve-destination server name

- Status: Job status

  Jobs

  - WAITING FOR REC MEDIA: Waiting for archive destination media to be inserted.
  - REGISTERED: Job is registered and on standby.
  - STANDBY: Job has started and attempting to read files.
  - PROCESSING: Reading and writing files. Progress status is displayed under [Progress].
  - FINISHED: Job has finished successfully.
  - FAILED: Job has aborted.
 - CANCELED: Job was canceled at the request of the user.

  Job groups

  - PROCESSING: Jobs (REGISTERED, STANDBY, or PROCESSING) in progress within the group.
  - FINISHED: All jobs within the group with FINISHED status.
  - FAILED: All jobs within the group with FAILED status.
  - CANCELED: All jobs within the group with CANCELED status.
  - PARTIALLY FINISHED: All terminated jobs (FINISHED, FAILED, or CANCELED) within the group that contain one or more jobs with FINISHED status.
  - MONITORING: Monitor folder in a RETRIEVE WATCHED FOLDER job.
- Progress: Archive or retrieve progress status and transfer speed (displays the number of files in the watched folder for RETRIEVE WATCHED FOLDER jobs)
- User: ID of user who registered the job
- Created Time: Time when the job was created (requested)
- Start Time: Job start time
- End Time: Job end time. Estimated end time is shown in parentheses.

Placeholder dialog

The Placeholder is a virtual folder for temporarily storing files to be archived/retrieved. Using the Placeholder enables files located on different servers or in different folders to be archived/retrieved at the same time.

Select [Open Placeholder] from the pull-down menu to open the [Placeholder] dialog.
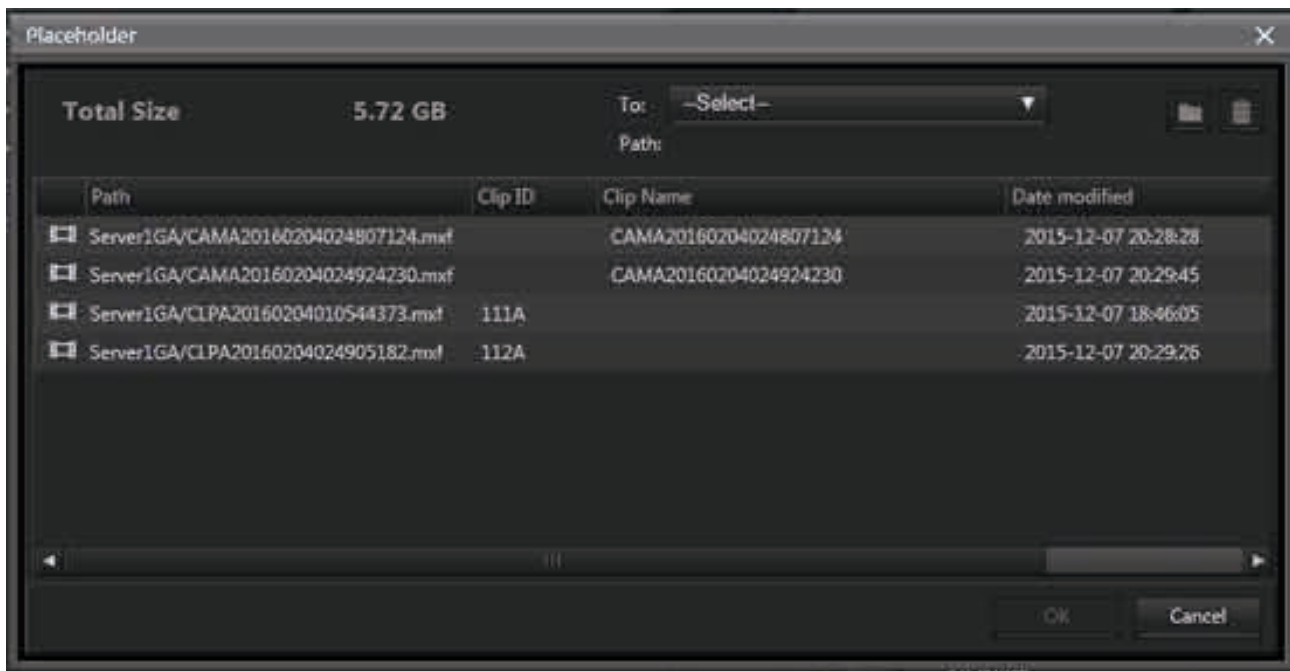
Total Size

Displays the total size of the files in the Placeholder.

To:

Sets/displays the destination media or third-party server when archiving, or the destination server when retrieving.

Path:

Sets/displays the destination media path when archiving to media.

To change the path, click the button.

 button

Removes the selected file from the Placeholder.

File list

Displays a list of the files in the Placeholder.

When the dialog opens, the files selected in the source list area (or folder if a folder is selected) are displayed. To add files to the list, drag and drop them from the list area.
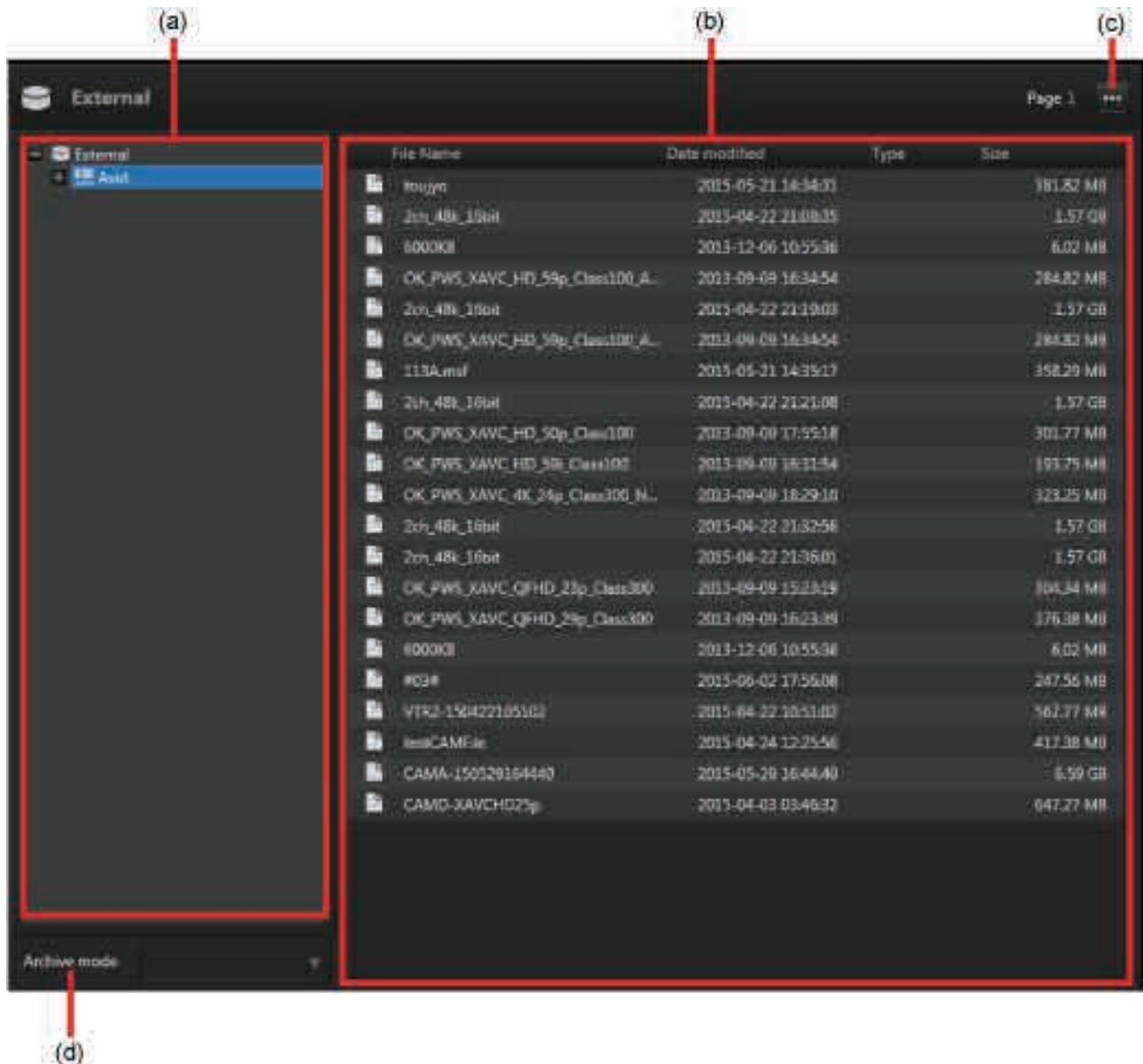
The following items are displayed in the list.

- Path: Full path to the file
- Clip ID: ID assigned in the following format (Page value + Bank value + Clip No. + Camera ID)
- Clip Name: Clip name
- Date modified: Date and time when the file was last modified
- Type: File extension
- Size: File size

External Screen

Third-party servers are displayed in the media area of the Home screen if [External] is selected in the global menu.
When archiving, select the destination server of the file to be stored.

(a) Tree area

Displays the names of third-party servers registered on the [External] page of the Settings screen.

(b) List area

If the third-party server is Avid, displays the files on the Avid server in list view. The following items are displayed in the file list.

- File Name: File name
- Date Modified: Date and time when the file was last modified
- Type: File extension
- Size: File size

For servers other than Avid, a file list is not displayed, but you can still drag & drop files to archive into this area.

(c) Pull-down menu

Not used in this version.

(d) Archive mode

When using a server other than Avid, this selects the archive mode when archiving to the selected server. You can select whether to archive transferring the server format as-is, or transcode to a third-party format. To transfer Apple ProRes files, select the transcoding to match the format on the third-party server.

This item is not displayed for Avid servers.

Settings Screen

This section describes the names of parts and functions of the Settings screen for managing the software.
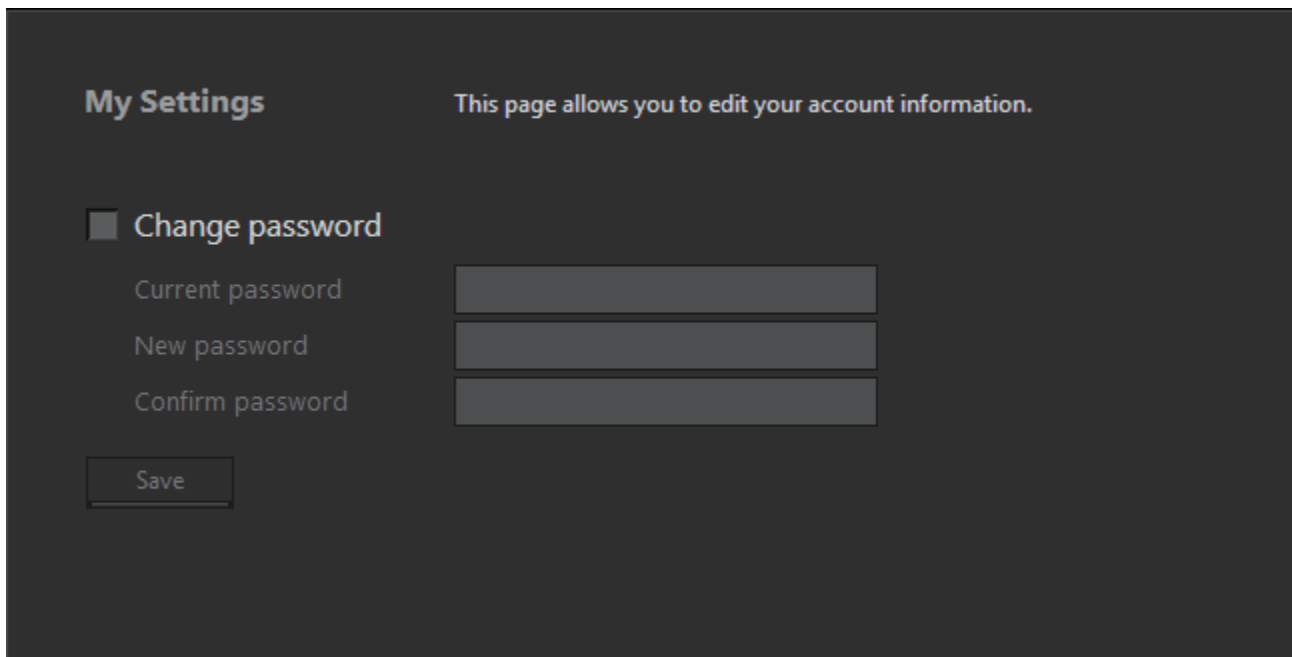
- My Settings page
- PRC Manager page
- Server page
- Media page
- External page
- Users page
- Maintenance page
- Transcode page
- Misc. page

My Settings page

Changes the login user password.

After changing the password, always remember to click the [Save] button.

The preferences on this page are saved independently for each user.
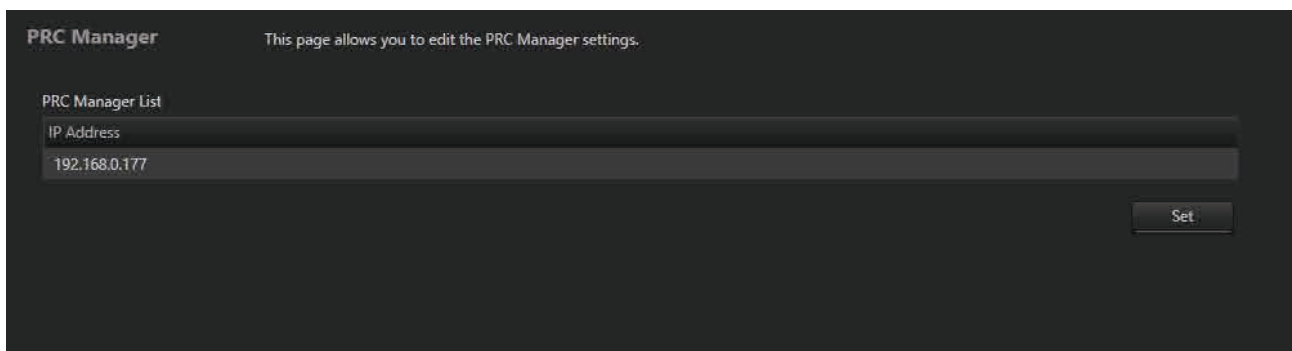
Change password

Changes the login user password. Place a check mark in the checkbox, then enter the existing password and a new password.

You can use 8 to 64 characters comprising alphanumeric characters, "-" (hyphen), and "_" (underscore) for the password. Upper and lower case characters are case-sensitive.

PRC Manager page

Modifies the PRC Manager settings.

This page is displayed for users having Administrator authority only.

PRC Manager List

Displays the IP address of the PRC Manager.

To configure PRC Manager settings

1. Click the [Set] button.
2. In the [New PRC Manager] dialog, enter the PRC Manager information.
    - IP Address: Enter the IP address.
    - Port: Enter the port number for communication with PRC Manager. The default is 51000. Set according to the operating environment.

3. Click the [OK] button.

Server page

Configures the servers (PWS-4500/BPU4800).

All settings on this page are configurable by users having Administrator authority only. General users cannot configure [Server List].

Server List

Displays the list of servers managed by the PRC Manager. The following items are displayed in the list.

- Server Name: Server name
- IP Address: IP address (10 Gigabit Ethernet IP address of the server is displayed by default)
- Status: Server status
- Location: Displays whether 10 Gigabit Ethernet or 1 Gigabit Ethernet is used.
- Free Space: Free space on the server

To change server settings

1. Select a server in the list, then click the [Set] button.

   The [Server Settings] dialog appears.

2. Edit the server information.

   The following information can be configured.

   ○ Server name

- IP address
- Retrieve mode (normal retrieve or transcode)
3. Click the [OK] button.

   The server information is updated.

Notes

- The server configuration information is managed using an internal database. There is a limit on the number of servers that can be configured. If the limit is exceeded, an error mark appears on the Settings icon in the global menu. If this occurs, start "Config Tool" from the Start screen. The old server information is deleted, and the database is initialized.
- If the version of PRC Manager is old, an error mark appears on the Settings icon in the global menu. In this case, check the version of Media Gateway in the Help menu, and use a version of PRC Manager that is compatible with the Media Gateway version.

BPU4800 Transcode

Selects the data format for archiving from the BPU4800. After changing the setting, click the [Save] button.

Clip ID Setting

Displays the rule for specifying clip IDs when retrieving files from media to the server. Use the following procedure to set the clip ID.

1. Click the [Set] button.

   The [Clip ID Setting] dialog appears.
2. Select the ID specification rule in the dialog.
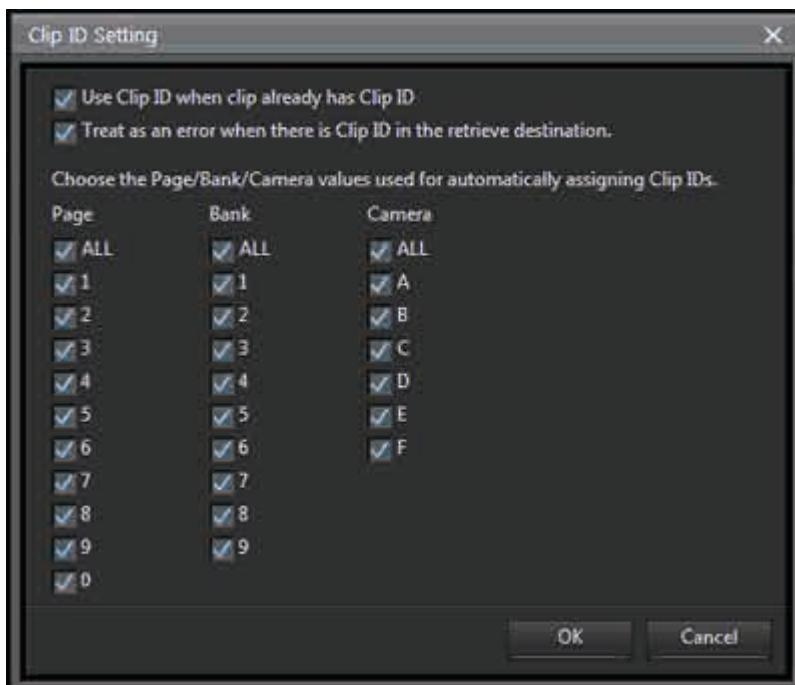
- [Use Clip ID when clip already has Clip ID]: Selects the processing when retrieving clips for which a clip ID is already specified. When turned on, the existing clip ID is used when retrieving. When turned off, a clip ID based on the specified rule in the dialog is assigned.

- [Treat as an error when there is Clip ID in the retrieve destination]: Sets whether to raise an error if there are no clip IDs available. When turned on, an error occurs if there are no available clip IDs, and the file is not retrieved. When turned off, a Clip ID is assigned based on the Page value, Bank value, and Camera ID specified in the dialog.
  - Page: Selects the Page value that is assigned to the clip ID.
  - Bank: Selects the Bank value that is assigned to the clip ID.
  - Camera: Selects the Camera ID that is assigned to the clip ID.
3. Click the [OK] button.

Note

If a file on the BPU4800 begins with "CAM," a subclip is automatically created. The clip ID used when a subclip is generated is assigned following the rule configured here.

ISO REC Setting

Specifies the operation taken when media becomes full during ISO recording. Use the following procedure to configure settings.

1. Click the [Set] button.
   The [ISO REC Setting] dialog appears.
2. Place a check mark in [Spanning REC].
   Clear the checkbox if you want to stop recording when media becomes full. Clearing the checkbox disables the other configuration items.
3. Select the media to use for recording when the used media becomes full in [Recording REC Media type].
   Internal storage, USB HDD, network drive, SxS, and cartridge can be selected. If more than item is selected, the media with the most free space is used for recording.
4. Set the maximum number of sessions used for ISO recording to media in [Max. number of sessions in REC media].
   If the maximum number of ISO REC sessions exceeds this value, the transfer speed to media is reduced.
5. Enter the path for recording in [Path].
6. Specify the number of seconds of overlap at the start of recording to alternate media in [Overlap].
7. Click the [OK] button.

Note

When using ISO REC, if an MXF file exceeds 24 hours or a MOV file file exceeds 8 hours, the file is automatically split. Also, when transferring a file using cache, the file is automatically split if the cache area is insufficient. The overlap time applied when a file is automatically split is determined by the number of seconds specified in [Overlap].

Auto Archive

Sets the conditions for automatic archiving of files.
To add a condition
1. Click the [Add] button.

2. Set the file conditions in the [Auto Archive Setting] dialog.

    Server

    Specify the server to watch.

    Filter

    Specify the watch conditions.

    - ○ Date & Time: Specify the file creation date and time as an archive condition.
    - ○ ClipID: Specify the clip ID as a condition.
    - ○ Clip Name: Specify a keyword contained in the clip name as a condition.
    - ○ REC Status: Archive clips while recording.

    > **Note**

    ClipID and REC Status cannot be set at the same time.

    Path

    Click the [Browse] button, and specify the destination folder.
3. Click the [OK] button.

> **Note**

Retrieved clips may be re-archived or subject to other actions depending on the auto archive settings. If this occurs, review the auto archive watch conditions.

To edit a watch condition

1. Select a watch condition in the list, then click the [Edit] button.
2. Edit the watch condition, then click the [OK] button.

To remove a watch condition

1. Select a watch condition in the list, then click the [Delete] button.
2. Click [OK] in the confirmation dialog.

Media page

Displays the media status.

All settings on this page are displayed for users having Administrator authority only. Only [Drive], [Cartridge name], and [Restrict Disc Spanning] are displayed for general users.
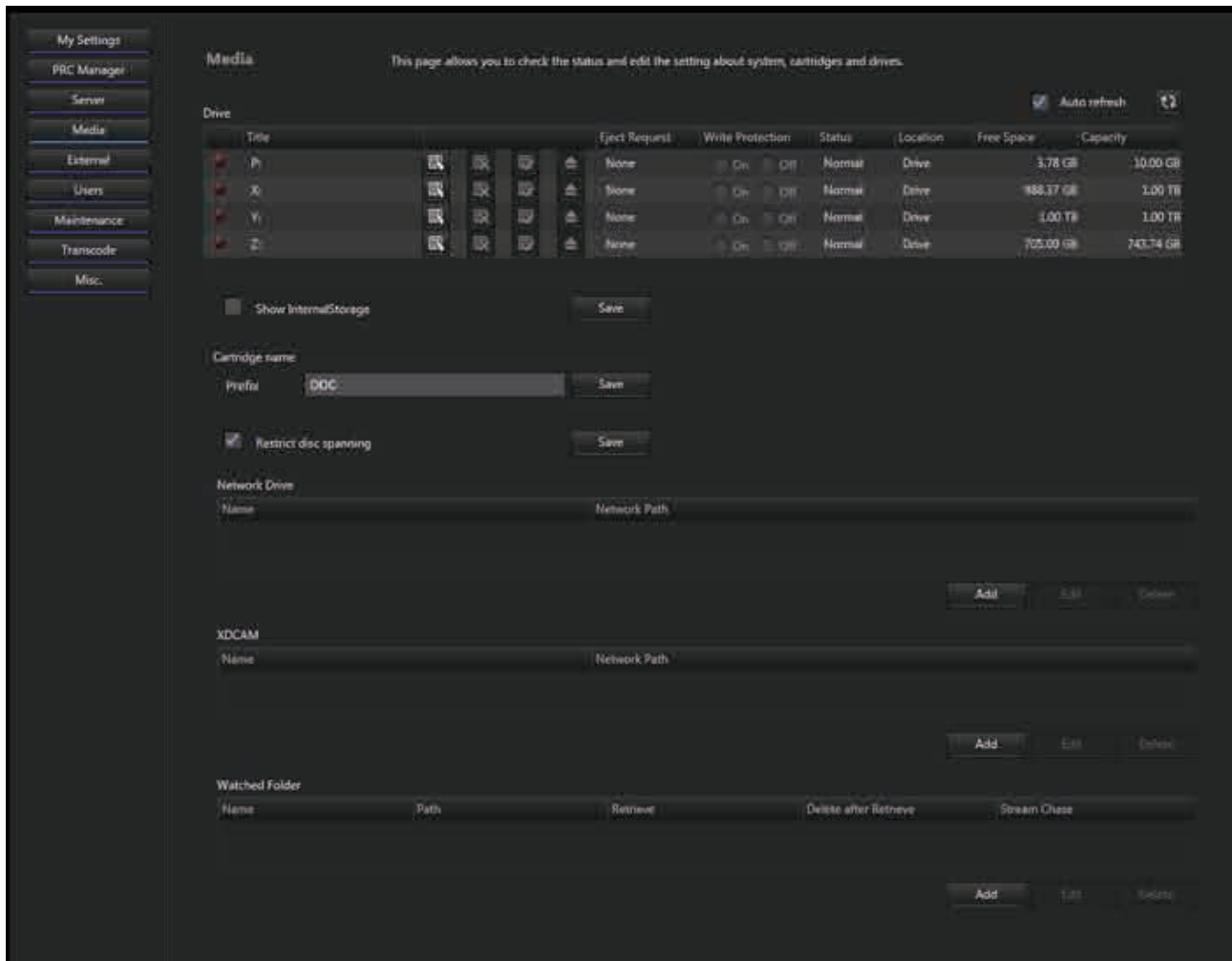
Drive

Displays the status of media and performs operations for each media.

- Indicator: Displays the eject indicator status.
- Title: Displays the media name.
- button: Displays the [Media Information] dialog to show advanced information about the media. The cartridge name can be edited and the archive mode (direct archive, cached archive, transcode) can be selected in this dialog.
- button: Formats the media. This button is enabled for cartridges and Professional Discs only. It cannot be selected for other media.
- button: Finalizes the media. This button is enabled for Write-Once cartridges and Write-Once Professional Discs only. It cannot be selected for other media.
- button: Ejects the media. A warning message appears if an archive/retrieve request is outstanding for the media.
  This button is enabled for cartridges, SxS memory cards, and Professional Discs only. It cannot be selected for other media.
- Eject Request: Displays the eject execution status.

- NONE: Not ejecting.
  - EJECT REQUESTED: Eject button was clicked and the media is being ejected.
- Write Protection: Switches write protection on/off. Writing to media is not possible, even when write protection is set to Off, if the write protect switch on the media is set to prohibit writing.
- Status: Displays the media status.
  - Normal: Normal status
  - Read Only: Only retrieving and previewing are supported.
  - Error: Error status. Only formatting and ejecting are supported.

    > **Note**
    >
    > If an error occurs, the media may not be restored to its previous status, even if formatted.

  - Checking: Media status check is in progress
  - Formatting: Formatting is in progress
  - Finalizing: Finalizing is in progress
- Location: Displays the location of the media (in this software, "Drive" is always displayed).
- Free Space: Displays the free space.
- Capacity: Displays the total capacity.

Show Internal Storage

Place a check mark in the checkbox to display the internal storage in the Media area of the Home screen to enable its selection for archiving/retrieving.

> **Note**
>
> Using internal storage as a save destination affects the maximum capacity of the archive/retrieve using cache operation. Internal storage should be used as a temporary destination.

Cartridge name

Specifies a character string prefix for the cartridge name when registering a new cartridge. The cartridge name format is "Prefix + consecutive number."

Restrict disc spanning

Place a check mark in the checkbox to restrict saving of files across disc boundaries within a cartridge to a minimum when archiving.

Network Drive

Displays a list of the network drives.

To add a network drive

1. Click the [Add] button.
2. In the [Network Drive Setting] dialog, enter the information for the drive.
   - Name
   - Physical path
   - User name and password for logging in to the network drive
   - Archive mode (direct archive, cached archive, transcode)
   - Whether to create metadata file and thumbnail image file

- Whether or not to enable sharing of materials during transfer (If enabled, an external editor can access the material being transferred).

3. Click the [OK] button.

XDCAM

Displays a list of XDCAM devices.

The following XDCAM devices support access via CIFS.

- XDS-1000
- XDS-PD1000
- XDS-PD2000
- PMW-1000
- PDW-HD1550

To add an XDCAM device

1. Click the [Add] button.
2. In the [XDCAM Setting] dialog, enter the information for the device.
   - Name
   - Physical path
   - User name and password for logging in to the XDCAM device
   - Archive mode (direct archive, cached archive, transcode)
3. Click the [OK] button.

> **Note**

The formats supported by each file system on devices that support SxS memory cards are given below. Playback of other formats is not supported.

exFAT

Archive/retrieve support

- XAVC C100 Intra FullHD 23.98p/25p/29.97p/50i/59.94i
- XAVC C100 Intra HD720 50p/59.94p

Transcode archive/retrieve support

- XDCAM MPEG2 FullHD 23.98p/25p/29.97p/50i/59.94i
- XDCAM MPEG2 HD720 50p/59p

UDF

Transcode archive/retrieve support

- XDCAM MPEG2 FullHD 23.98p/25p/29.97p/50i/59.94i
- XDCAM MPEG2 HD720 50p/59p

FAT32

Not applicable

Watched Folder

Displays a list of watched folders.

To add a watched folder

1. Click the [Add] button.

2. In the [Watched Folder Settings] dialog, enter the information for the watched folder.
   - Name: Enter the name of the watched folder (name displayed in the Watched Folder area on the Home screen).
   - Path: Click the [Browse] button and specify the physical path of the watched folder.
   - Retrieve: Select the retrieve destination server.
   - Delete after retrieval: Select to delete files after they have been retrieved.
   - Enable Stream Chase: Select to enable retrieving when copying files to a watched folder (chasing retrieve). [Margin of the termination] sets the end-of-file determination to match the network characteristics when writing files to watched folders via a network. Use the default value for normal operation.

     Note

     Chasing retrieve may not be possible if the network drive OS is Windows or other OS.

3. Click the [OK] button.

External page

This page is used to add and change third-party servers.

This page is displayed for users having Administrator authority only.

Avid Interplay Web Service

Displays a list of the registered Avid servers.

To add an Avid server

1. Click the [Add] button.

   The [New Avid Server] dialog appears.

2. Enter the server information.

   Specify the following information.

   - Name: Enter the name of the Avid server.
   - IP Address: Enter the IP address of the Interplay Web Service.
   - Port: Enter the port number of the Interplay Web Service.
   - User Name: Enter the login account of the Interplay Web Service.
   - Password: Enter the password of the Interplay Web Service.
   - Logical Path: Logical path referencing the server on which files are stored using Interplay Web Service
   - Physical Path: Physical path of the server to store MXF files
   - User Name: Enter the login account of the server to store files.
   - Password: Enter the password of the server to store files.

3. Click the [OK] button.

   The Avid server is registered, and is displayed in the External area on the Home screen.

To change information for a registered Avid server

1. Select a server in the list, then click the [Edit] button.

   The [Edit Avid Server] dialog appears.

2. Edit the server information, then click the [OK] button.

To delete a Avid registered server

1. Select a server in the list, then click the [Delete] button.

2. Click [OK] in the confirmation dialog.

Other Server

Displays a list of the registered third-party servers. The name and IP address of each server is displayed.

To add a third-party server

1. Click the [Add] button.

   The [New Other Server] dialog appears.

2. Enter the server information.

   Specify the following information.

   - Server Name: Enter the name of the third-party server.
   - IP Address: Enter the IP address of the third-party server.
   - User Name: Enter the login account of the third-party server.
   - Password: Enter the password of the third-party server.
   - Archive mode: Select "Same As Dest" if transcoding when archiving to a third-party server, or "Same As Source" if not transcoding.

3. Click the [OK] button.

    The third-party server is registered, and is displayed in the External area on the Home screen.

To change information for a registered third-party server

1. Select a server in the list, then click the [Edit] button.

    The [Edit Other Server] dialog appears.

2. Edit the server information, then click the [OK] button.

To delete a registered third-party server

1. Select a server in the list, then click the [Delete] button.

2. Click [OK] in the confirmation dialog.

Other Gateway Setting

Displays the IP address of a gateway terminal on another system when using a third-party server.

To set the gateway terminal

1. Click the [Set] button.

    The [Other Gateway Setting] dialog appears.

2. Enter the gateway terminal information.

    Specify the following information.

    - Server Name: "Other Gateway" is displayed.

    - IP Address: Enter the IP address of the gateway terminal.

    - User Name: Enter the login account of the gateway terminal.

    - Password: Enter the password of the gateway terminal.

    - Media Gateway IP Address: Enter the IP address of the computer on which Media Gateway is installed.

3. Click the [OK] button.

Clip ID Setting

Displays the rule for specifying clip IDs when archiving files to a third-party server. Use the following procedure to set the clip ID.

1. Click the [Set] button.

    The [Clip Location Setting] dialog appears.

2. Enter a name for the rule in [Clip Location], then click the [...] button.

    The [Clip ID Setting] dialog appears.

3. Select the ID specification rule in the dialog.

- ○ Page: Selects the Page value that is assigned to the clip ID.
- ○ Bank: Selects the Bank value that is assigned to the clip ID.
- ○ Position: Selects the Position value that is assigned to the clip ID.
- ○ Camera: Selects the Camera ID that is assigned to the clip ID.

4. Click the [OK] button.

Users page

Manages user accounts for this software.

This page is displayed for users having Administrator authority only.
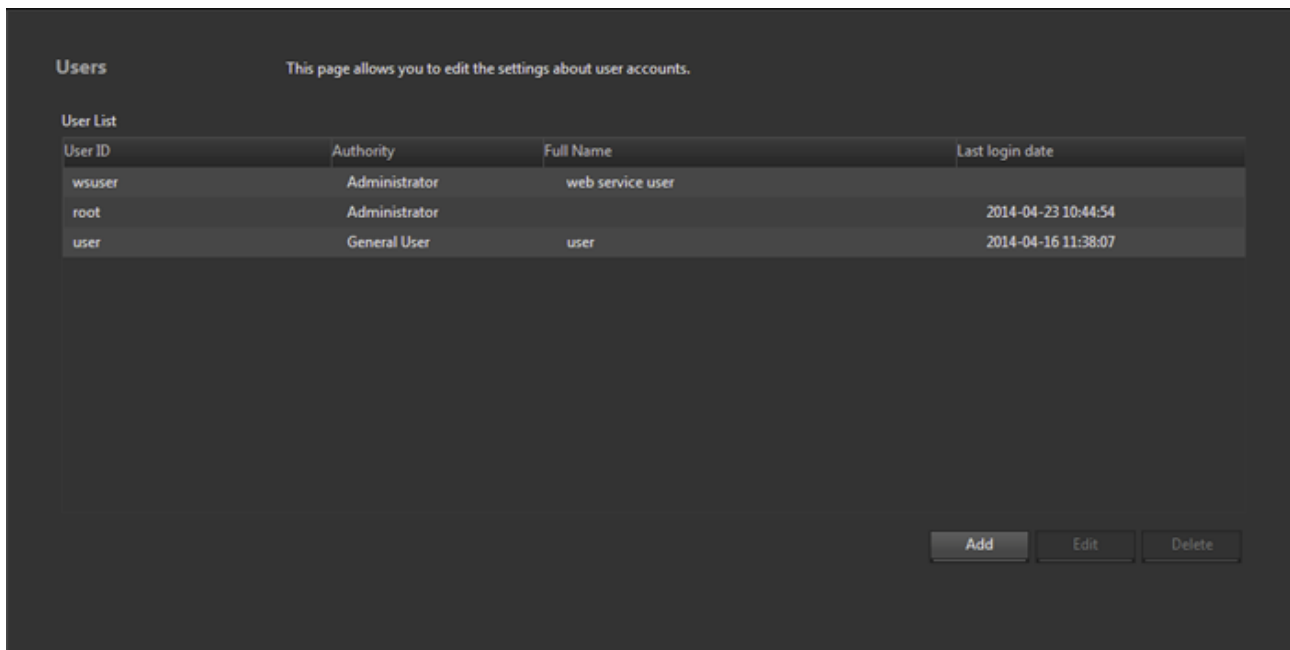
User List

Displays the list of users. The user ID, authority, full name, and last login date are displayed.

To add a user

1. Click the [Add] button.
2. In the [New Account] dialog, enter the information for the new user.
   - User ID
   - Authority: Administrator/General User
   - Full Name
3. Click the [OK] button.

   The user account is created.

To edit user information

You can change the authority for a registered user.

1. Select a user in the user list, then click the [Edit] button.
2. In the [Edit Account] dialog, select the desired user authority (Administrator/General User).
3. Click the [OK] button.

   Note

Some user information cannot be modified while that user is logged in.

To delete a user

Select the user, then click the [Delete] button.

Maintenance page

Makes settings related to software maintenance.

This page is displayed for users having Administrator authority only.

Service Termination & Start

Terminates or starts the software service. When terminating service, you can select whether to terminate service after all jobs have been processed or after the currently processing jobs have been processed.

<u>To terminate the service</u>

1. Confirm that [Working] is displayed in the [System Status] field under [Status].
2. Select [Terminate service after all jobs are finished] or [Terminate service after "Stand-by & Processing" jobs are finished].
3. Click the [Terminate] button.
   When the service stops, the [System Status] field under [Status] changes to [Stand-by].

<u>To start the service</u>

1. Confirm that [Stand-by] is displayed in the [System Status] field under [Status].
2. Click the [Start] button. (When service terminates, the [Terminate] button changes to a [Start] button).
   When the service starts, the [System Status] field under [Status] changes to [Working].

To cancel service termination, click the [Cancel] button.

Status

Displays the service status.

- Service Request Status: Displays the service request status.
- System Status: Displays the system processing status.
    - Working: Operating normally
    - Standby: In standby mode
    - Failed: An error occurred, and service is not running
    - Not Ready: Not running
- Waiting & Running Jobs: Displays the number of registered jobs in the cue and jobs being processed.
- Running Jobs: Displays the number of jobs being processed.

Backup/Restore of the database

Backs up and restores the database.

Regular backup, using a specified schedule, and immediate backup, using the [Manual Backup] button, are supported.

Backup DB On Schedule

Displays the specified backup schedule. Use the following procedure to set a backup schedule.

1. Click the [Set] button.

   The [Set DB Backup Schedule] dialog appears.

2. Set the schedule in the dialog, then click the [OK] button.
    - Start Time: Specifies the time to start backup.
    - Day Of Week: Specifies the day(s) to perform backup (multiple selection supported).
    - Output Folder: Selects the output folder. The output destination can be set to internal storage, USB HDD, or network drive.
    - Max Preserved Files: Specifies the maximum number of previous backup files to be preserved.

To delete a schedule, click the [Delete] button.

Backup status display

Displays information about the last database backup.

- Last Backup Date & Time
- Output File
- Message

[Manual Backup] button

Immediately executes backup.

DB Restore

Displays information about the last database restore.

- Backup File
- Message

[Restore] button

Restores the database. Select a backup file to restore in the [Restore] dialog, then click [OK].

Cleanup DB

Displays the schedule to delete finished jobs.

- Start Time (Daily): Displays the time to start deleting finished jobs.
- Cleanup DB (Days before): Specifies the number of days of data to retain (cleaning up older data).
- Last Cleanup Date & Time: Displays the date and time when finished jobs were last cleaned up.

Clicking the [Manual Cleanup] button immediately executes cleanup, regardless of the set schedule.
To set the schedule for deleting finished jobs, click the [Set] button to display the configuration dialog and set the start time.
To delete a schedule, click the [Delete] button.

Log Collection

Saves Media Gateway logs to the computer.
Specify the start and end dates of the logs to save, then click the [Output] button. If using the Chrome web browser, logs are stored in C:\Users\(login_user_name)\Download.

Transcode page

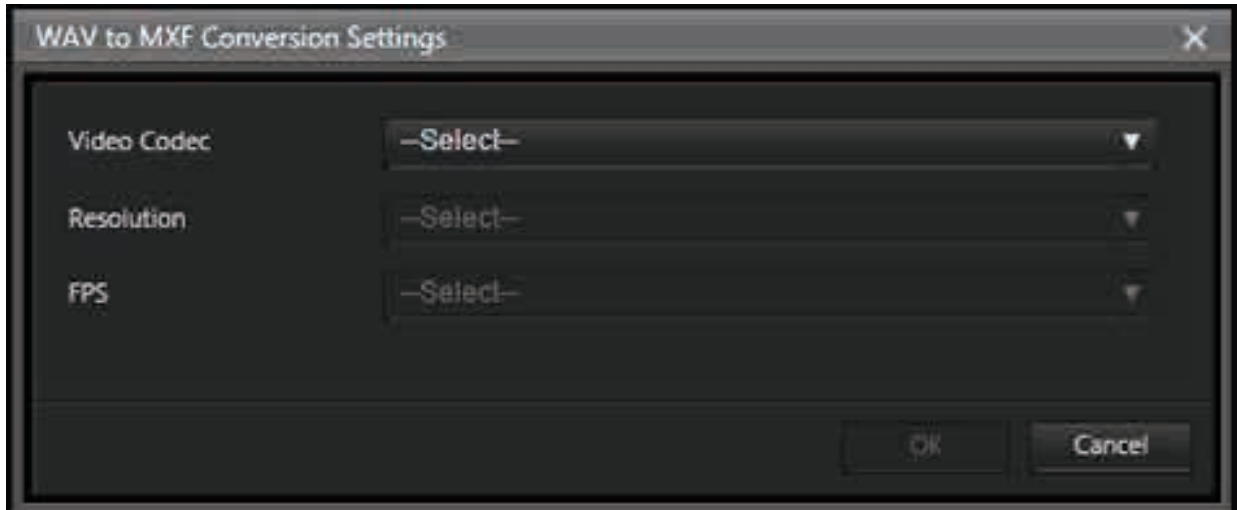Used to configure settings for transcoding during archiving/retrieving.

WAV to MXF Conversion

Displays the settings for conversion from WAV format to MXF format. Use the following procedure to configure settings.

1. Click the [Set] button.
   The [WAV to MXF Conversion Settings] dialog appears.

2. Specify the conversion settings in the dialog.

- ○ Video Codec: Selects the video codec. The following codecs can be selected.
  - ■ XAVC Intra 480
  - ■ XAVC Intra 300
  - ■ XAVC Intra 100
  - ■ DNxHD 220x
  - ■ DNxHD 145
  - ■ DNxHD 45
- ○ Resolution: Selects the image resolution.
- ○ Fps: Selects the frame rate.
3. Click the [OK] button.

Video Transcode

Displays the settings for transcoding video. Click the [Add] button to create a new setting, or the [Edit] button to edit an existing setting. The [Video Transcode Settings] dialog appears.
The following items can be selected in the dialog.

Video codec
- XAVC Intra 480 – Intra 480 MXF OP1a SMPTE
- XAVC Intra 300 – Intra 300 MXF OP1a SMPTE
- XAVC Intra 100 – Intra 100 MXF OP1a SMPTE
- XAVC Long – Long MXF OP1a SMPTE
- XAVC Long422 - Long MXF OP1a SMPTE
- XAVC S – Long (*.mp4)
- XDCAM MPEG2 – XDCAM MPEG2 HD 50Mbps MXF
- Avid DNxHD 220x – 220x MXF OP1a SMPTE
- Avid DNxHD 145 – 145 MXF OP1a SMPTE
- Avid DNxHD 45 – 45 MXF OP1a SMPTE
- AVC/AAC – AVC/AAC (*.mp4)
- Avid MXF OPAtom

Image resolution

- QFHD (3840×2150)
- Full HD (1920×1080)
- HD (1280×720)

Frame rate

- 23.976p
- 25p
- 29.97p
- 50i
- 59.94i
- 50p
- 59.94p

A configuration specified here becomes available for selection as the archive mode when archiving to media, or the retrieve mode when retrieving to the server.

The Video Transcode Option Key is required in order to configure settings.

Notes

- If using transcode archive/retrieve, transcoding is not supported if the length of the path after archival or before retrieval (including the file name) exceeds 260 characters. Check the length of the path when using transcode archive/retrieve.
- The options displayed for the video codec, resolution, and frame rate vary depending on the format support. If transcoding is configured on PWS-4500 and XDS-series devices, the formats supported on the individual device are displayed.

Misc. page

Used to enter option keys for using optional functions of the software.

This page is displayed for users having Administrator authority only.
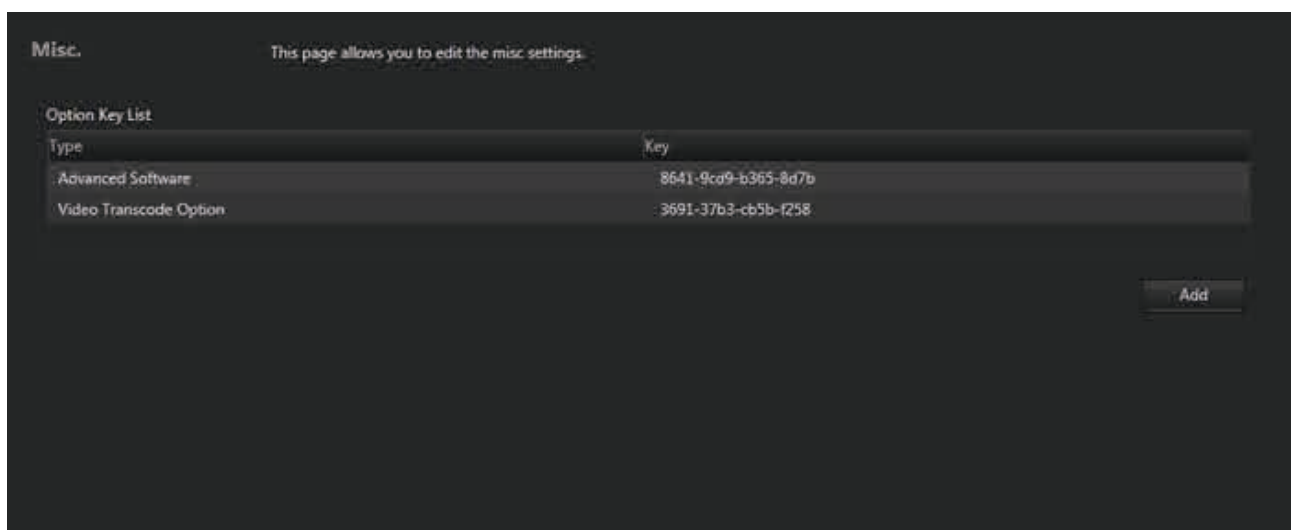
Option Key List

Displays the list of registered option keys.

To add an option key, click the [Add] button and enter the key in the [Option Key Setting] dialog.

Operating Procedures

This section describes the operating procedures for each software function.

- Archiving
- Retrieving
- Retrieving using watched folders
- Recording files to media when recording on a server (ISO REC)
- Recording to two HDDs simultaneously
- Archiving files matching watch conditions automatically
- Archiving to a third-party server

Archiving

1. Display the media on which to store files in the Media area on the Home screen. Subfolders are displayed if files are stored in subfolders on media.

   Notes

   - Archiving is not supported in the following cases.
     - When the media status is not "Normal"
     - When the system status is not "Working"
     - When archiving data may exceed the total capacity of the media
     - When the number of files to archive at the same time exceeds the maximum number of files for the media
     - When the total number of files/folders on the media may exceed the maximum number of files

■ When the archive destination is a Professional Disc, and the archive cannot coexist with the format of the clips already recorded on the disc (for transcode archive, an error will occur when the execution progress level reaches 90%).
   ○ To archive HFR data directly from the BPU4800 while recording, set [BPU4800 Transcode] to [HFR-Data] on the [Server] page.
   ○ If XAVC Transcode is turned off on the BPU4800, HFR-DATA cannot be converted to XAVC and then archived.
   ○ If HFR-Data is converted to XAVC on the BPU4800, a clip is automatically created. When this occurs, a clip ID is automatically assigned and consumed. The clip ID that is automatically consumed follows the [Clip ID Setting] format setting on the [Server] page. Automatically created clips are deleted automatically after archiving is finished.

2. Select the archive mode in the media information display of the Media area.
   ○ Direct Archive: Archive directly from the server to media. The time taken for archiving large files can be reduced by archiving directly to media, bypassing the HDD of the computer.
   ○ Cached Archive: Archive using cache function. The files to be archived are transferred from the server to the HDD of the computer, and then the transferred files are copied to sequential media. This provides efficient archiving when archiving a group of small files.
   ○ Transcode: Archive by transcoding the MXF file codec to the specified format. You can select configured options on the [Transcode] page on the Settings screen.

3. Select the file to archive in the Server area.
   If archiving files from different servers at the same time, see "Archiving files from different servers."

4. Click the ➡ button. Or drag and drop the selected file onto the destination media or folder. When using drag-and-drop, drag from the list in the Server area and drop onto the list in the Media area.

5. Click [Archive] in the confirmation dialog.
   The archive job is registered in the Job area and then processed.

 Note

If you start archiving a file while the PWA-PRC1 is recording the file, chasing archive is enabled. However, cached archive and transcode archive are not available.

Archiving files from different servers

Use the [Placeholder] dialog if the files you want to archive are on more than one server.
1. Select the files you want to archive in the list area in the Server area on the Home screen.
2. Select [Open Placeholder] from the Server area pull-down menu.
   The [Placeholder] dialog appears.
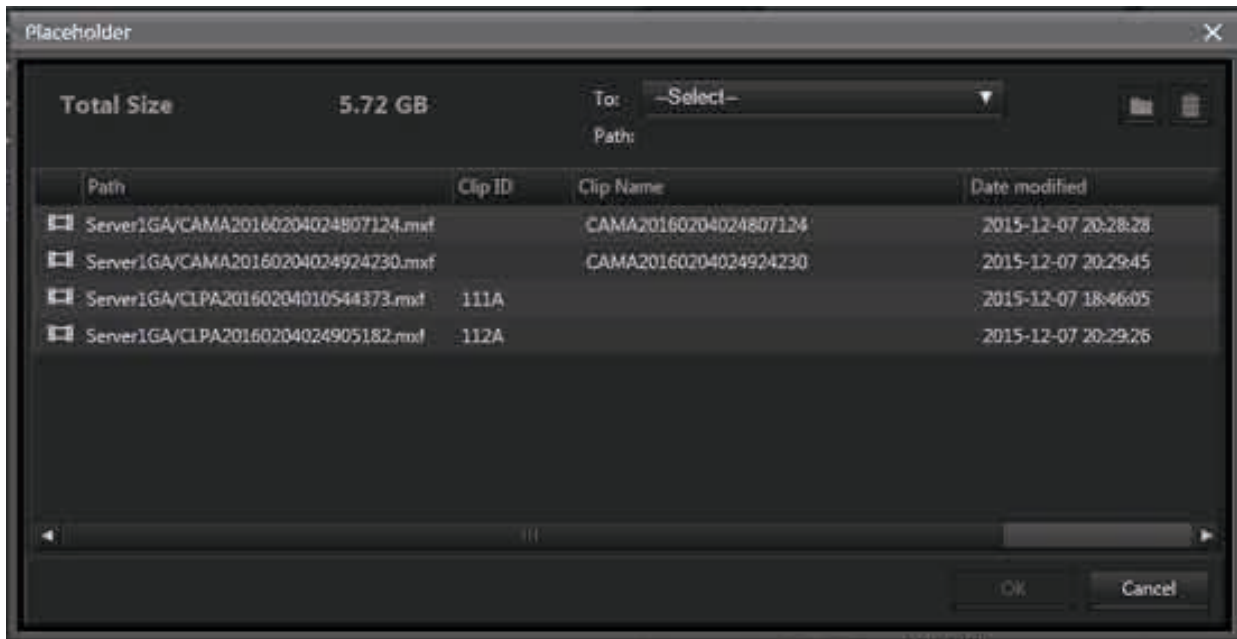
The file selected in step 1 is displayed in the file list. Drag and drop the files you want to archive from the Server area into the [Placeholder] dialog.
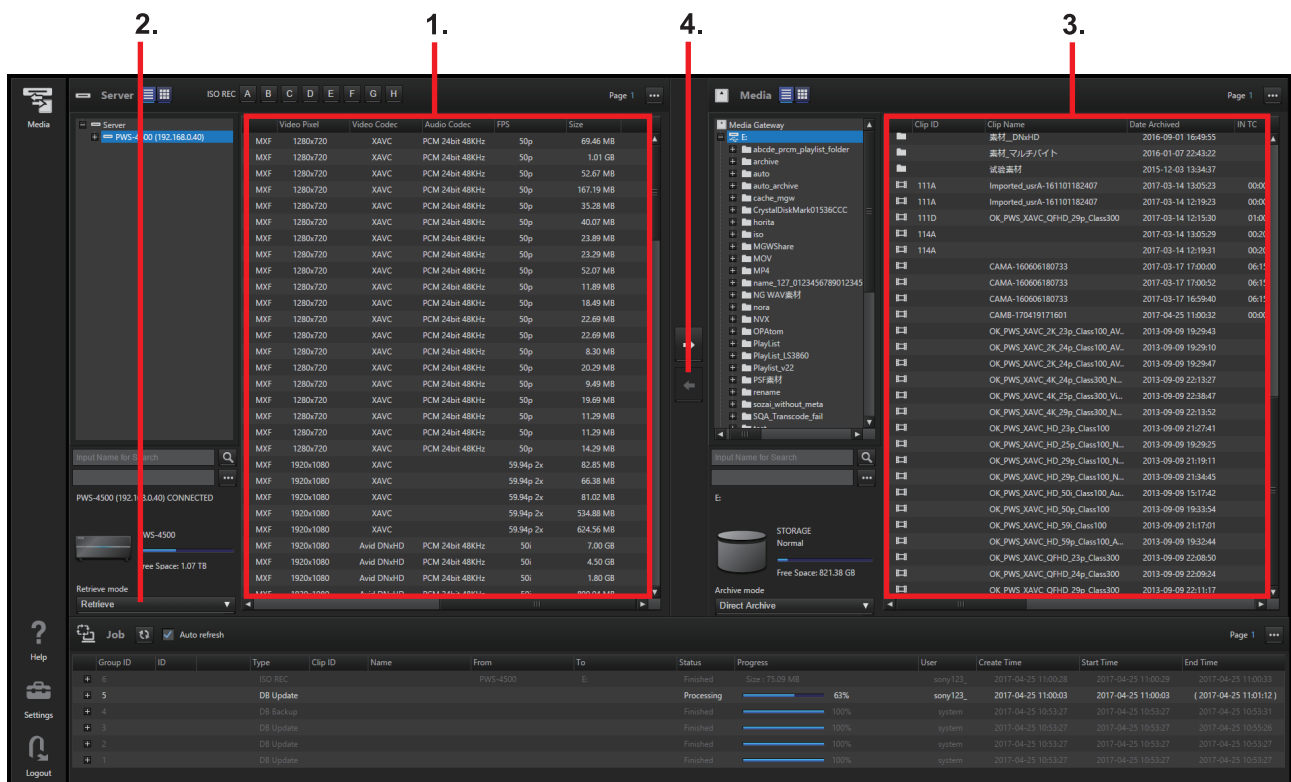
3. Select the archive destination media in [To:].

4. Click the ![folder icon] button, and specify the path of the folder in which to store the files.

5. Click the [OK] button.

   The archive job is registered in the Job area and then processed.

Retrieving

1. Display the server on which to save retrieved files in the Server area.

2. Select the retrieve mode in the server information display of the Server area.

   Select "Retrieve" for normal retrieving. If the MXF file codec must be transcoded when retrieving, first select the transcode setting on the [Transcode] page of the Settings screen beforehand.

3. Select the file or folder to retrieve in the Media area.

   Note

   Files cannot be retrieved in the following cases.

   - When there are files with the same clip ID on the retrieve destination server.
     (Retrieve is supported if [Treat as an error when there is Clip ID in the retrieve destination] is unchecked in the [Clip ID Setting] dialog, opened from the [Server] page of the Settings screen.)
   - When the media status is not "Normal" or "Read only"
   - When the system status is not "Working"
   - When the file has a duration which is an odd number of frames at 50p or 59.94p (retrieving is enabled if [Import Clips with Odd Frames] is set to [Acceptable] on the [System] screen of the PWS-4500)
   - When an attempt is made to retrieve to the BPU4800

4. Click the ![button] button. Or drag-and-drop the selected folder or file onto the save destination server. When using drag-and-drop, drag from the list in the Media area and drop onto the list in the Server area. You cannot drag-and-drop into the tree area.

5. Click [YES] when the [Confirmation] dialog appears.

   The retrieve job is registered in the Job area and then processed.

   An error occurs if there are files with the same clip ID on the retrieve destination server. (An error does not occur if [Treat as an error when there is Clip ID in the retrieve destination] is unchecked in the [Clip ID Setting] dialog, opened from the [Server] page of the Settings screen.)

Retrieving files from different folders

Use the [Placeholder] dialog if the files you want to retrieve are in more than one folder.

Select the files you want to retrieve in the Media area on the Home screen.

6. Select [Open Placeholder] from the Media area pull-down menu.

   The [Placeholder] dialog appears.

The file selected in step 1 is displayed in the file list. Drag and drop the files you want to retrieve from the Media area into the [Placeholder] dialog.

7. Select the server on which to store files in [To:].
8. Click the [OK] button.

The retrieve job is registered in the Job area and then processed.

Retrieving playlists/cutouts

You can retrieve playlists and cutout data created in the PWA-PRC1 application.
XML files containing playlists or cutout data information are displayed in the Media area. Retrieving these XML files will retrieve all clips relating to the playlist or cutout. The retrieval procedure is the same as the normal retrieval procedure.

Notes

- Playlist and cutout data XML files are stored in a folder structure created by the application. If a file or folder is deleted, moved, or renamed, it may cause files to not be displayed or cause an error when retrieving.
- If transcoding accompanies the playlist or cutout data retrieval, you may not be able to restore the unedited playlist/cutout data.

Transcode retrieving

When retrieving WAV files, files are automatically transcoded according to the setting selected in [WAV to MXF Conversion] on the [Transcode] page of the Settings screen.
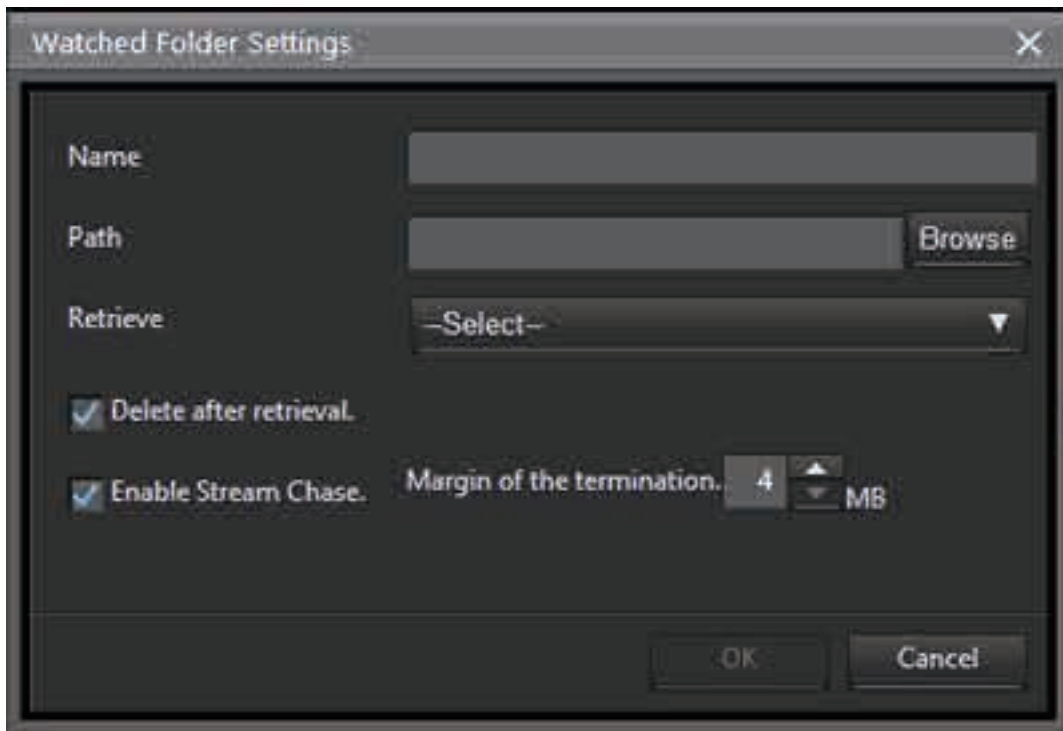When retrieving MXF files, files are transcoded according to the setting selected in [Video Transcode] on the [Transcode] page of the Settings screen.

Retrieving using Watched Folders

This function retrieves files automatically when they are copied to specified folders.

1. Click the [Setting] icon in the global menu.

2. Click [Media] on the Settings screen.
3. Click the [Add] button for [Watched Folder].

   The [Watched Folder Settings] dialog appears.

4. Enter the information for the watched folder.
   - Name: Enter the name of the watched folder (name displayed in the Watched Folder area on the Home screen).
   - Path: Click the [Browse] button and specify the physical path of the watched folder.
   - Retrieve: Select the retrieve destination server.
   - Delete after retrieval: Select to delete files after they have been retrieved.
   - Enable Stream Chase: Select to enable retrieving when copying files to a watched folder (chasing retrieve). [Margin of the termination] sets the end-of-file determination to match the network characteristics when writing files to watched folders via a network. Use the default value for normal operation.
5. Click the [OK] button.

   The watched folder is displayed in the tree in the Media area on the Home screen, and folder watching starts. Files copied to the watched folder are automatically retrieved.
6. To stop watching a watched folder, delete the watched folder setting on the [Media] page of the Settings screen.

Notes

- Only MXF/WAV/MOV/MP4 files are monitored.
- Chasing retrieve is supported for MXF/MOV files only. However, chasing retrieve with transcoding is not supported.
- To retrieve WAV and MP4 files, the transcode settings specified on the [Transcode] page of the Settings screen must be selected on the retrieve destination server beforehand.

Recording Files to Media when Recording on a Server (ISO REC)

When PWA-PRC1 is recording files on a server, you can record files to media in parallel with recording on the server.

You can simultaneously record up to eight files to media in parallel. However, only one file at a time can be recorded to a cartridge, SxS memory card, or Professional Disc.

Normally, recording to media starts when recording on the server starts, but you can also specify a start timecode position for recording to media.

You can record using the following methods.

- Using the ISO REC button for each camera ID on the Home screen
- Specifying the Camera ID in the [ISO REC Mode] dialog
- Archiving a file directly while recording is in progress

Notes

- If XAVC Transcode is turned on on the BPU4800, ISO REC for a file being recorded is not available. In this case, the [Transfer] button is grayed out when the [ISO REC] dialog appears. Also, the BPU4800 is displayed in the recording source servers in the [ISO REC Mode] dialog, but when it is selected the [Transfer] button becomes grayed out.
- ISO REC for a MOV file being recorded on a cartridge is not supported.

Using the ISO REC button for each camera ID

1. Select the server currently recording in the Server area on the Home screen.
2. Specify the recording destination media and path in the Media area.
3. Click the ISO REC button for the camera ID you want to record on the Home screen.
   The [ISO REC] dialog appears.

4. To specify a recording start position, place a check mark in [TC position] and specify a timecode.
5. Click the [Transfer] button.
   Recording to the record train media starts.
   To stop recording, press the [Stop] button.
6. To close the dialog, click the [OK] button.
   Recording continues even after the dialog closes.

Specifying the Camera ID in the [ISO REC Mode] dialog

1. Select [ISO REC Setting] from the pull-down menu in the Server area on the Home screen.

   The [ISO REC Mode] dialog appears.
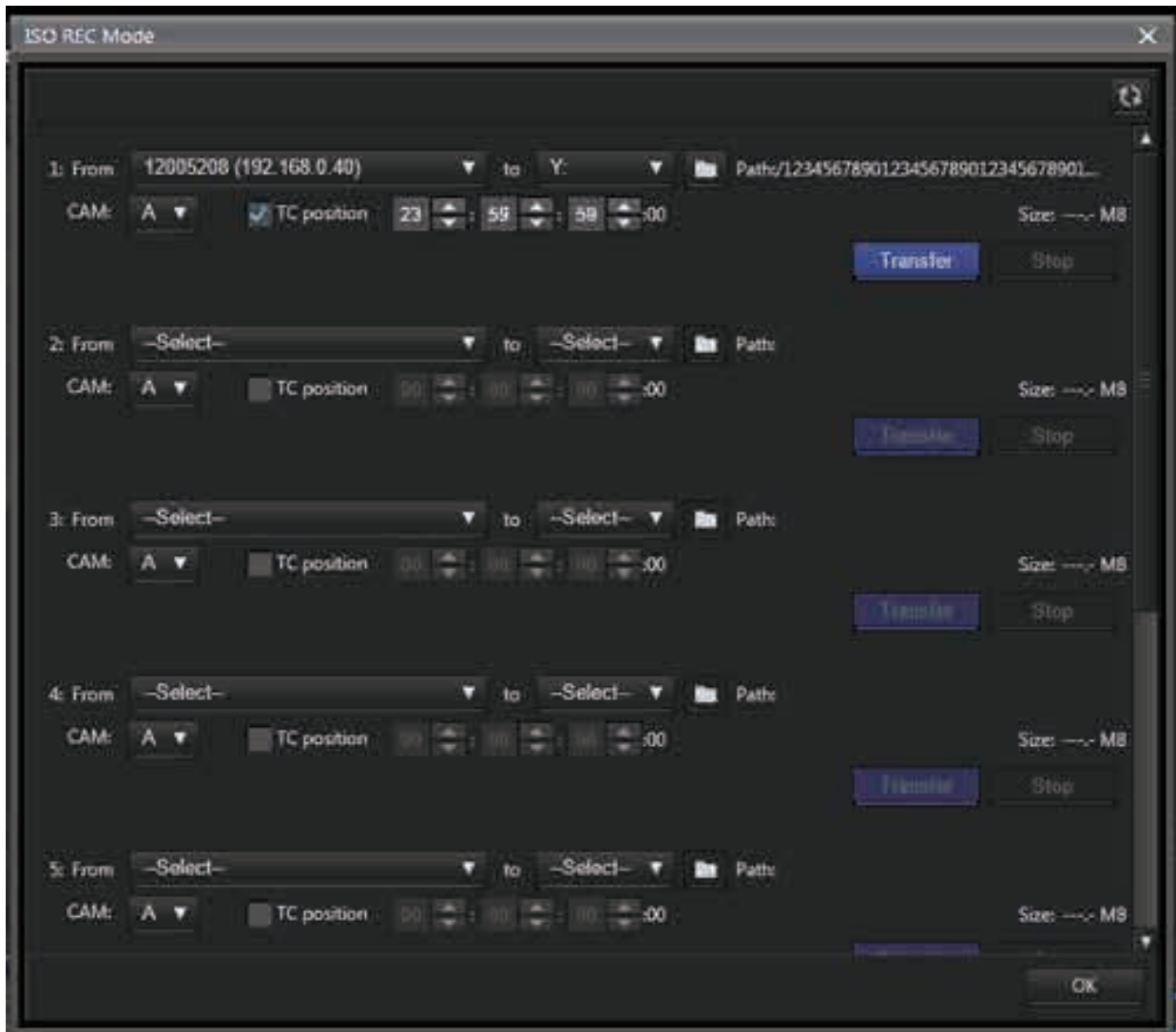
2. Select the recording source server and camera ID (A to H).

3. Select the destination recording media in [To:] and click the (folder) button to specify a folder.

4. To specify a recording start position, place a check mark in [TC position] and specify a timecode.

5. Click the [Transfer] button.

   Recording to the record train media starts.

   To stop recording, press the [Stop] button.

6. To close the dialog, click the [OK] button.

   Recording continues even after the dialog closes.

Archiving a file directly while recording is in progress

Files being recorded to the server by the PWA-PRC1 have file names prefixed with "CAMA" to "CAMH" according to the camera ID (A to H). The files can be sent to media by specifying direct archiving of files.

1. Display the media on which to store files in the Media area on the Home screen. Subfolders are displayed if files are stored in subfolders on media.

2. Select the file (file name starting with "CAM") to transfer in the list area of the Server area.

3. Click the button. Or drag and drop the selected file onto the destination media or folder. When using drag-and-drop, drag from the list in the Server area and drop onto the list in the Media area.

4. Click [Archive] in the confirmation dialog.

Recording to media starts.

To stop recording, press the [Cancel] button.

You can also use the [Placeholder] dialog in the same way as for normal archiving.

Note

When recording to the server using an application other than PWA-PRC1, the file name may not start with "CAM." Even in this case, you can archive in the same way by directly specifying the file being recorded.

Recording to Two HDDs Simultaneously

When archiving files, you can simultaneously record the same content to two HDDs or network drives for backup or other use (HDD mirror mode).

In this mode, you can specify which is the main drive and which is the sub-drive for backups. You can use the HDD or network drive assigned as the sub-drive for previewing files or retrieving files. Archiving files to the sub-drive and creating folders on the sub-drive are not supported.

1. Select the HDD or network drive to use as the main drive in the list in the Media area on the Home screen.

2. Select [Mirror Mode Setting] from the pull-down menu.

3. Select the HDD or network drive to use as the sub-drive in the [Mirror Mode Setting] dialog.
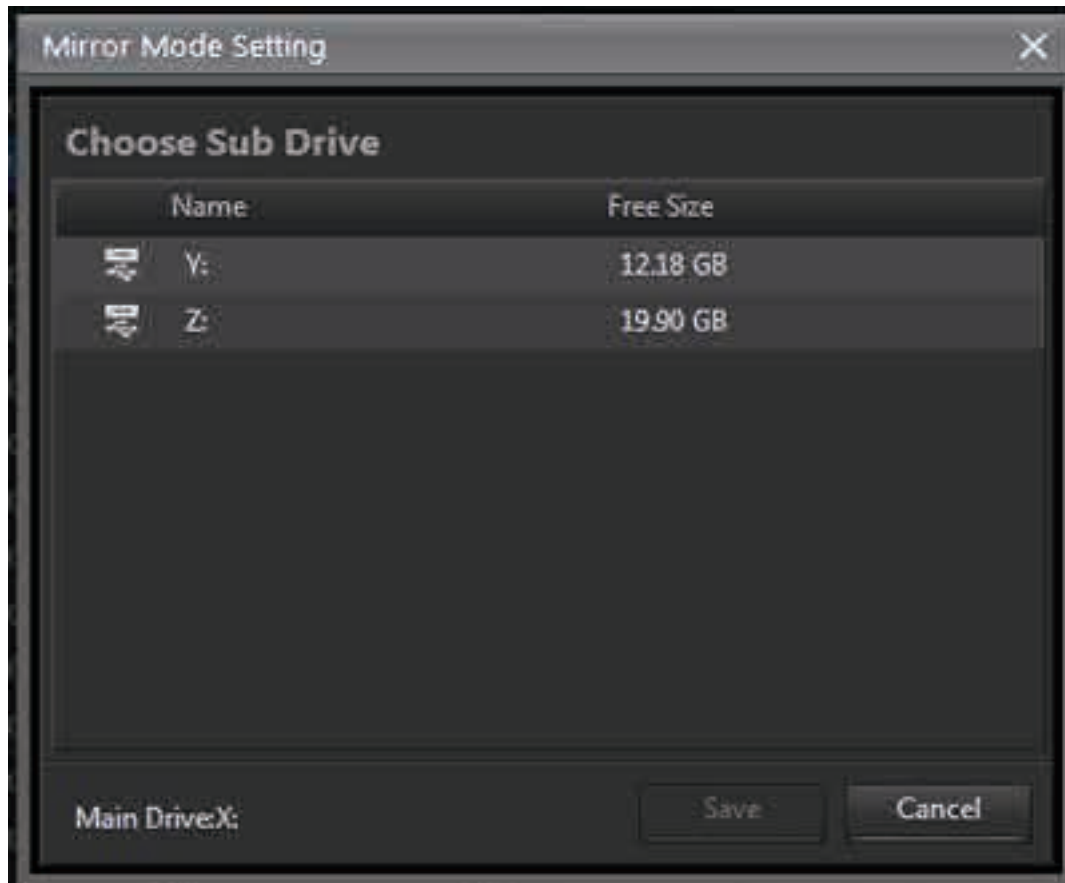
4. Click the [Save] button.

   Note

   You can also specify internal storage as the main drive or sub-drive.

Archiving Files Matching Watch Conditions Automatically

You can specify conditions for archiving files, and then automatically archive files created on the server that match the archive conditions.

The archive conditions are configured on the Settings screen.

1. Click the [Add] button.

   The [Auto Archive Setting] dialog appears.

2. Select the server to watch for auto archiving.

3. Specify the file conditions for auto archiving.

   You can specify the recording date and time, clip ID, clip name, and recording status as conditions.

4. Specify the path of the file archive destination.

5. Click the [OK] button.

Archiving to a Third-Party Server
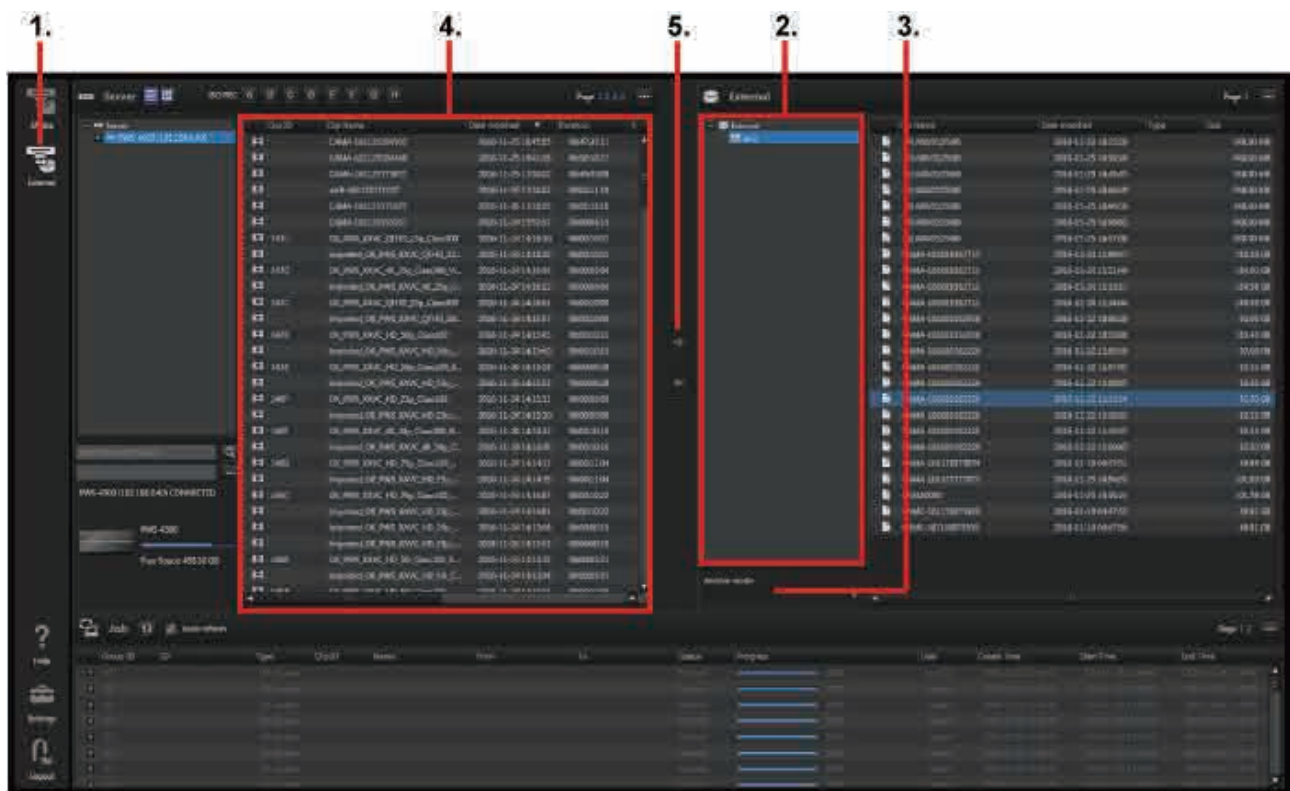
1. Click the ![External icon] (External) icon in the global menu to display the External screen.
2. Select the server on which to store files in the tree area of the External area.

   Note

   Archiving is not supported in the following cases.

   - When the system status is not "Working"
   - When archiving data may exceed the total capacity of the server

3. Select the archive mode.

   Normal archive (Same As Source) or archiving by transcoding to the format of the third-party server (Same as Dest) can be selected.

4. Select the file to archive in the Server area.

5. Click the ![arrow button] button.

   Or drag and drop the selected file onto the destination third-party server.

   When using drag-and-drop, drag from the list in the Server area and drop onto the list in the External area.

6. Click [Archive] in the confirmation dialog.

   The archive job is registered in the Job area and then processed.

Appendix

The appendix comprises the following topics.

- Switching Web UI Access to HTTPS
- Notice to Users
- Trademarks

Switching Web UI Access to HTTPS

The web UI access method can be switched to use HTTPS.

HTTPS communication is implemented if a server certificate has been installed.

Run the Https Setup Tool in order to install a server certificate. Also, to change settings so that HTTPS communication is not used in environments where HTTPS was used, use the Https Setup Tool.

For details about the Https Setup Tool, refer to the installation manual.

Notice to Users

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