



Visual Data Solution

Operation Guide

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1 Setup Macula Monitor

1.1 Install Macula Monitor

- 1) Download Macula Monitor Installer file from:

<https://gsfcorp.com/support/all-versions.html>

- 2) Double-click the installer file to begin installation. Follow the on-screen instructions to complete the installation.
- 3) Once the installation is completed, launch the Macula Monitor application. The shortcut icon shall be available on the desktop. The icon looks like this:



Ensure your laptop or PC is network connected to the same network as the GSF Macula Recording Server and GSF VDS system.

For remote access, you may want to seek assistance from your network administrator.

1.2 Macula Monitor Configuration

- 1) On Macula Monitor user interface, press '**Connection**' button on toolbar:

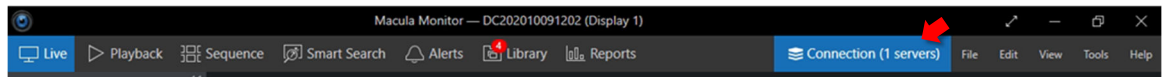


Figure 1

- 2) Press '+ Add server' button.

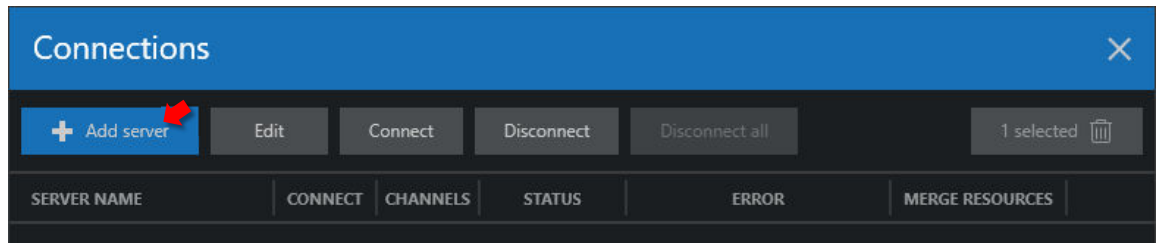
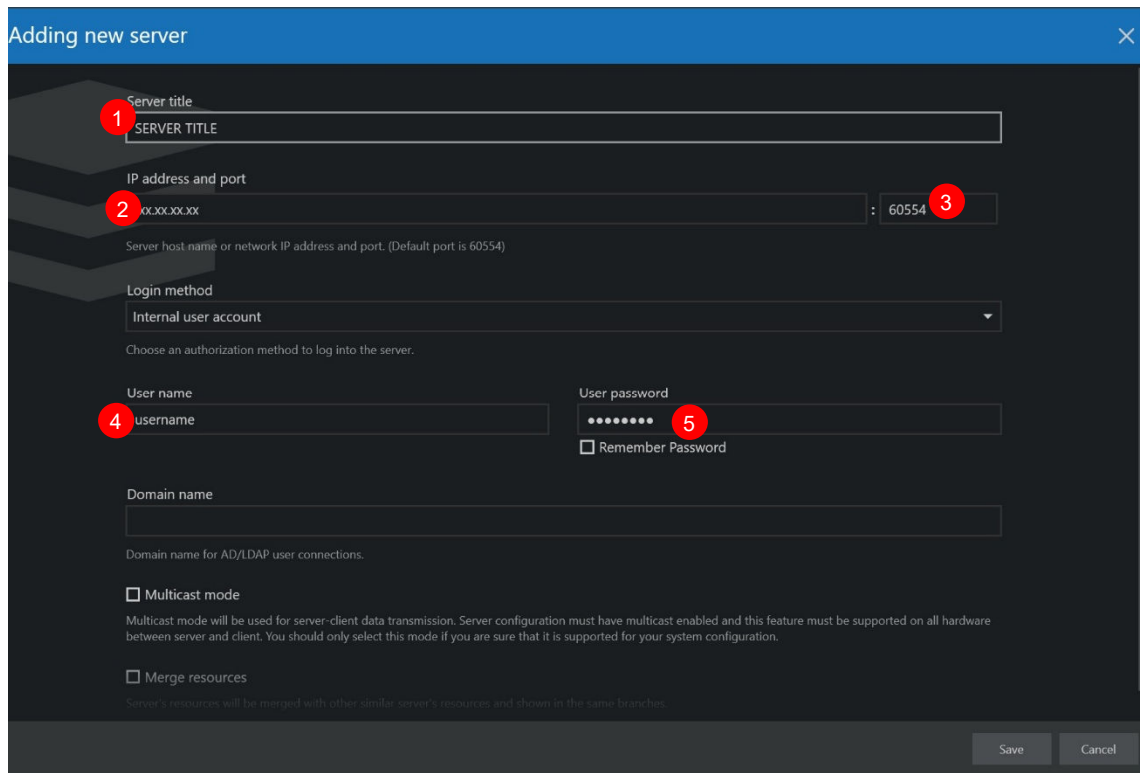


Figure 2

- 3) Insert the following information into the Connections Setup:



Adding new server

1 Server title
SERVER TITLE

2 IP address and port
: 60554 3

Server host name or network IP address and port. (Default port is 60554)

Login method
Internal user account

Choose an authorization method to log into the server.

4 User name
username

5 User password
.....
☐ Remember Password

Domain name

Domain name for AD/LDAP user connections.

☐ Multicast mode
Multicast mode will be used for server-client data transmission. Server configuration must have multicast enabled and this feature must be supported on all hardware between server and client. You should only select this mode if you are sure that it is supported for your system configuration.

☐ Merge resources
Server's resources will be merged with other similar server's resources and shown in the same branches.

Save Cancel

Figure 3

	Field	Value to insert
1	Server title:	Any Name you prefer
2	IP address:	(Refer to your administrator)
3	Port:	60554
4	User name:	(your Macula username)
5	User password:	(your Macula password)

Table 1

- 4) Press '**Save**' button.

1.3 Connect to Server

- 1) In Connections window, select 'SERVER TITLE'. Then, press 'Connect'.

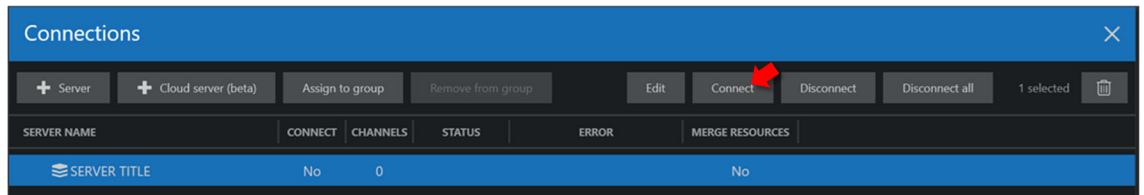


Figure 4

- 2) The status will become 'Connected'. This indicate the login is successful.

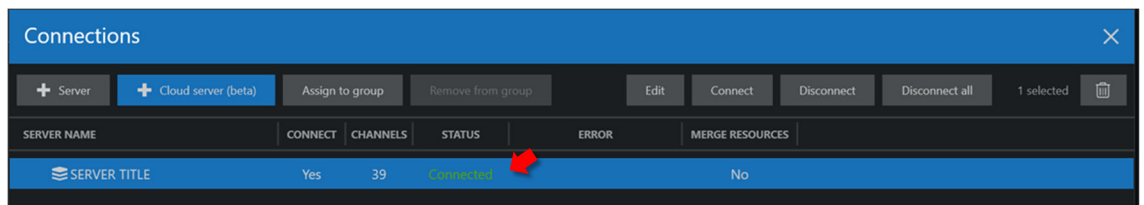


Figure 5

2 VDS Search and Playback

On the Macula Monitor user interface, press the 'VDS'  button on the toolbar. This will load the **VDS Search mode**.

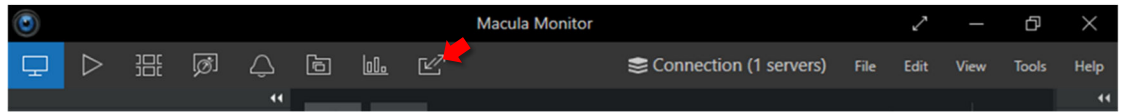


Figure 6: Press the VDS button on toolbar to load VDS search mode.

1) Select Channels for VDS Search

- a. **Select all Channels:** On the **Channels** List, Press the  button of the VDS group icon. This will select all the VDS channels for searching.
- b. **Select specific Channel(s):** If you prefer to search just one or some channels, press the  button next to the corresponding channels.

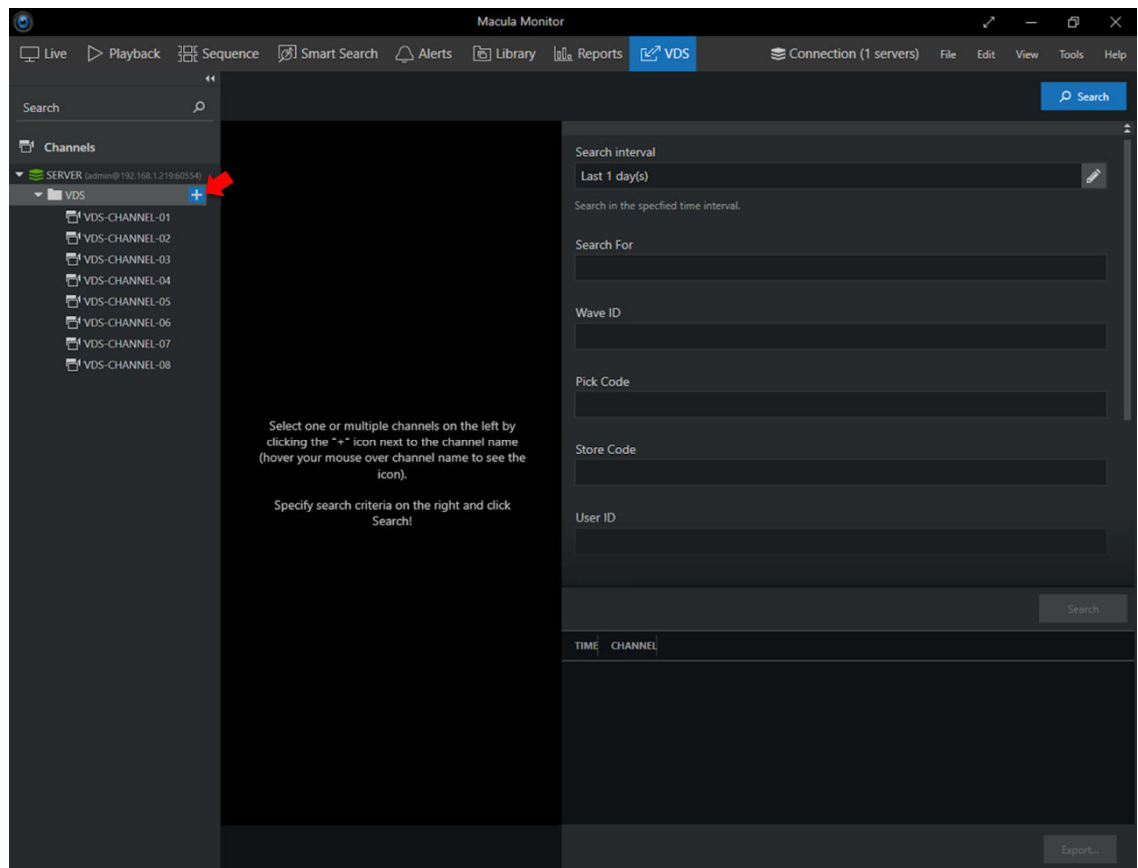


Figure 7: Press the  button of VDS group to select all channels for VDS Search

- 2) Press the  button in **Search Interval**.

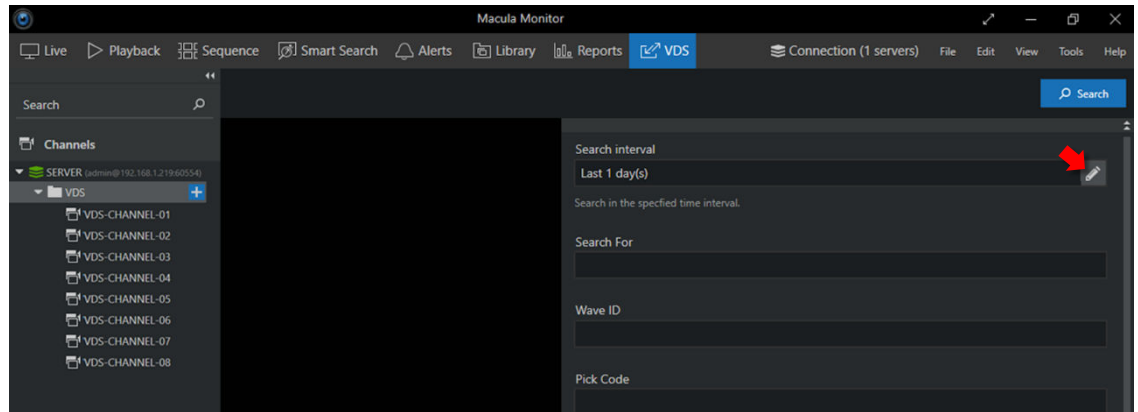


Figure 8: Press the  button

- 3) Search by **Date and time interval** (insert the START and END time). Or,
Search by **Relative time range** (Last 1 days, Last 2 days, Last 7 days, etc). Then, press **'Set'**.

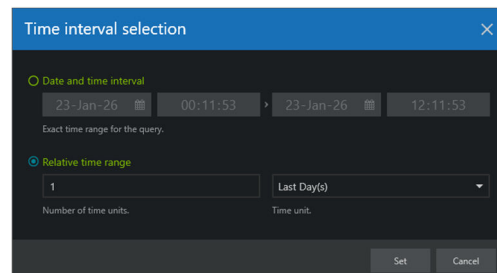


Figure 9

- 4) There are several Search Files available to search for specific date. The available fields are as follow:

Search For
Wave ID
Pick Code
Store Code
User ID
Tote Label
SKU
Tote ID
Seal Number
Filter

Figure 10: Search Fields available for searching

Search Field Names	Purpose	Search type supported
Search For	General purpose search for any keyword	<i>Partial match</i>
Wave ID	Search and filter by Wave ID	<i>Exact match</i>
Pick Code	Search and filter by Pick Code	<i>Exact match</i>
Store Code	Search and filter by Store code	<i>Exact match</i>
User ID	Search and filter by Worker ID	<i>Exact match</i>
Tote Label	Search and filter by Tote label	<i>Exact match</i>
SKU	Search and filter by SKU number	<i>Exact match</i>
Tote ID	Search and filter by Tote ID	<i>Exact match</i>
Seal Number	Search and filter by Seal Number	<i>Exact match</i>

Table 2: Available Search Fields

The '**Search For**' field supports partial match.

Insert the keyword (or part of) you intend to search, such as *SKU number*, *Tote Label number*, etc. inserting complete keyword will yield more accurate search results.

Example: "PiTL.001", "PiTL.002".

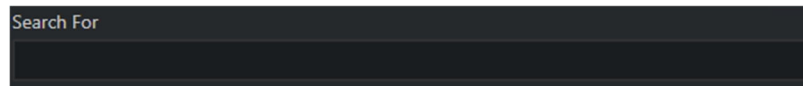


Figure 11

If you use any other search field to search, such as SKU, Tote Label, please make sure to insert the complete keyword, as these fields requires exact match. Otherwise, the search will not yield any results.

- 5) Press '**Search**' button.
- 6) The search results will be displayed in the table below the Search Form.

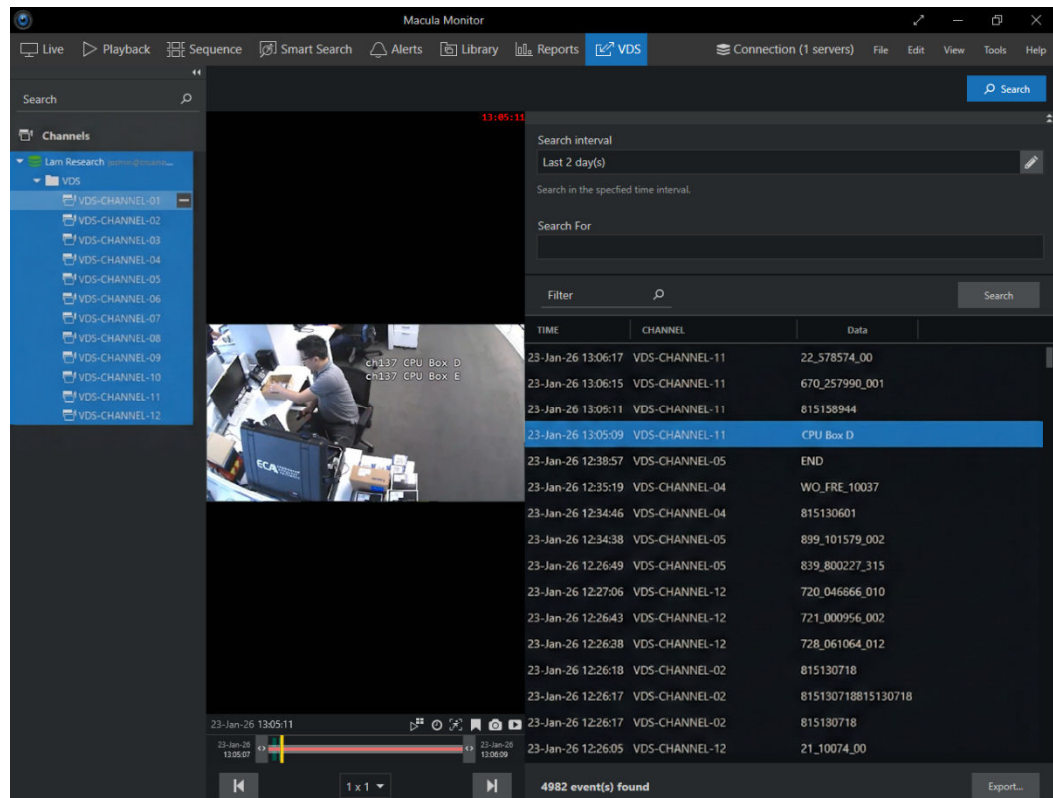


Figure 12

- 7) Click to select any of the result. The video paired to the VDS data will be displayed, at the exact time stamp.
- 8) To playback the selected video in larger viewing size, press the 'Go to Playback'  button located below the video. The video will load directly inside the playback tab, where you'll have access to use the full playback controls here.

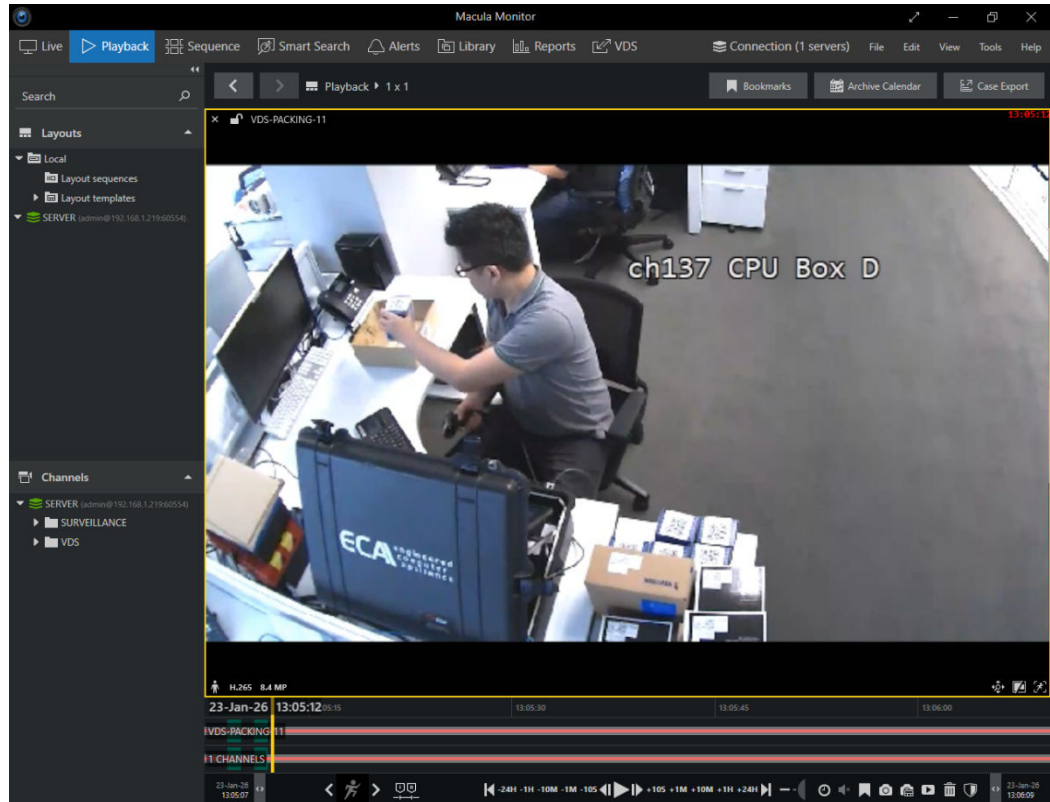


Figure 13

3 VDS Export

3.1 Video Export Location

In Macula, Library is the location for storing exported video and images.

- 1) In Macula Monitor, press '**Edit**' on Toolbar, then, select 'Settings'.

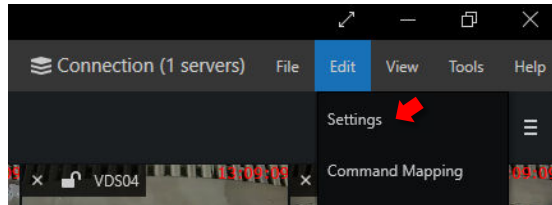


Figure 14

- 2) Go to '**Library**'. Click the '**Browse**' button. Then, select the path you would like to store Macula exported video and images. Take note, this is a location on your own PC or laptop. Press '**OK**' to confirm location. Then, press '**Save**' button.

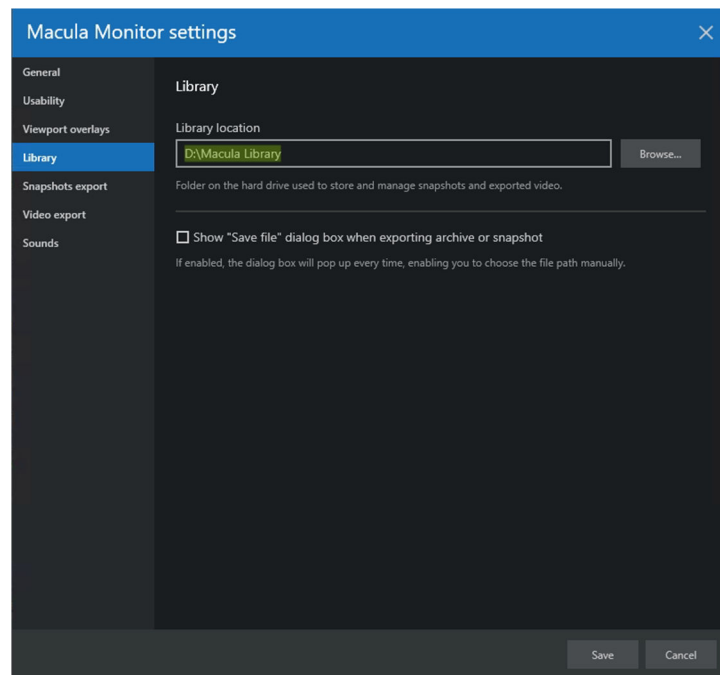


Figure 15

3.2 Video Export Settings

- 1) In Macula Monitor, press **'Edit'** on Toolbar, then, select **'Settings'**.

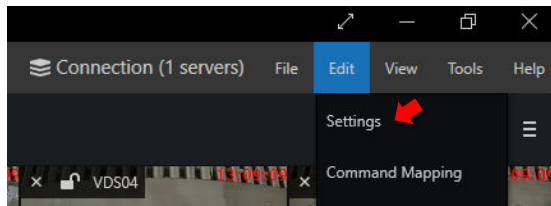


Figure 16

- 2) While in Macula Monitor Settings, go to **'Video Export'**.

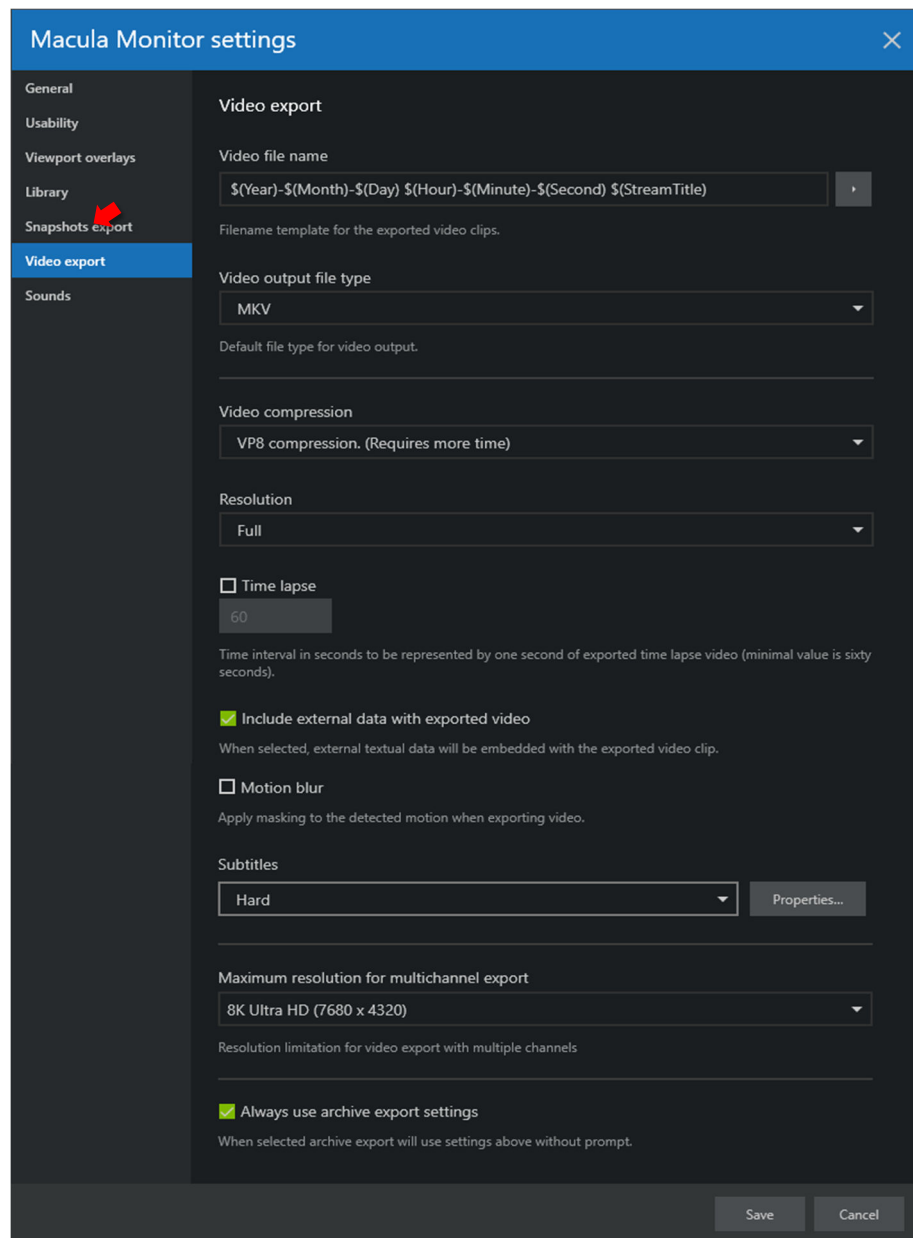


Figure 17

Apply the following settings for the options:

Options	Settings to apply
Video Output file type	select 'MKV'
Video compression	select 'VP8 compression'
Resolution	Select 'Full'
Include external data with exported video	☒ Enable
Subtitles	select 'Hard'
Maximum resolution for multichannel export	select '8K Ultra HD (7680 x 4320)'
Always use archive export settings	☒ Enable

Table 3

- 3) Press 'Save' button.

3.3 Export Video with VDS Data



Prior to exporting videos in Macula Monitor, ensure the configurations outlined in **Section 3.1 Video Export Location** and **Section 3.2 Video Export Settings** are already completed.

- 1) In VDS tab, select any of the search results.
- 2) Press the 'Export Video Clip'  button below the viewport.

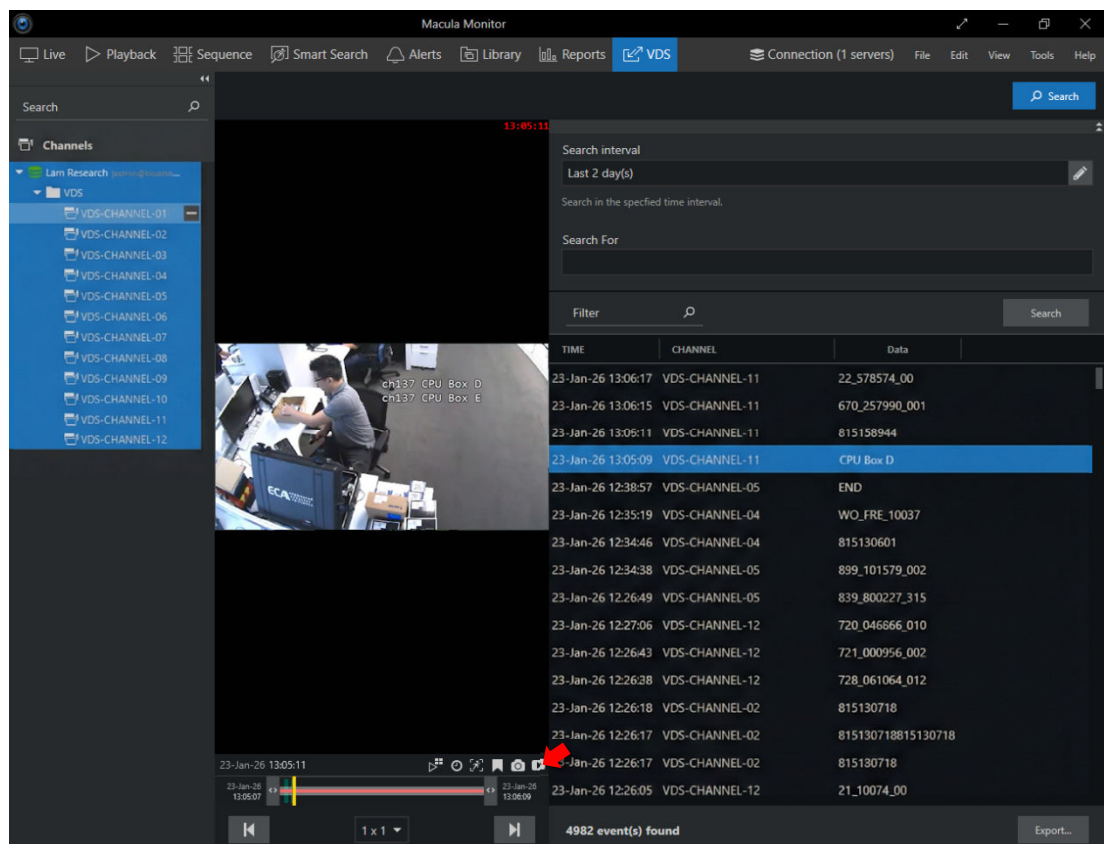


Figure 18

- 3) The button will show . Meaning the export has started.

- 4) To check the export status, press the Library tab. Export in progress will have the percentage shown in the 'Status' column.

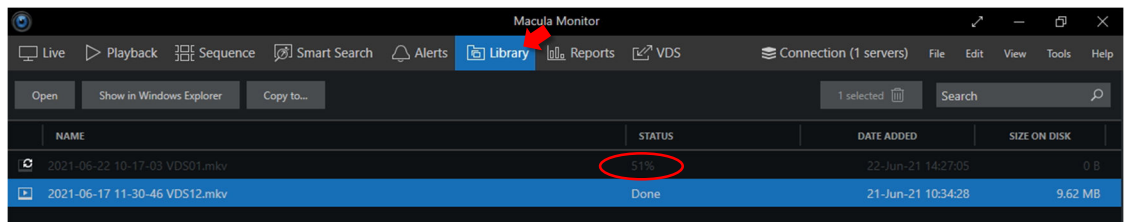


Figure 19

To show the video in Windows Explorer, select the video file, then press the '**Show in Windows Explorer**' button.

- 5) You may press the '**Copy to...**' button to copy the exported video file to external storage device.
- 6) In the 'Copy to' window, press 'Browse' button. Then, select the destination for the copy. Usually, this will be your USB external storage device.
- 7) Enable '**Append Portable Player**' (✓). This option will include the native media player to playback the exported files.

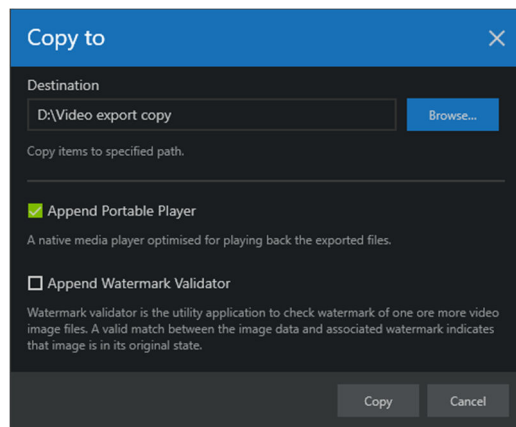


Figure 20

- 8) Press '**Copy**' button.
- 9) In the destination folder, you will get the **PortablePlayer** folder and **PortableLauncher.exe** file.

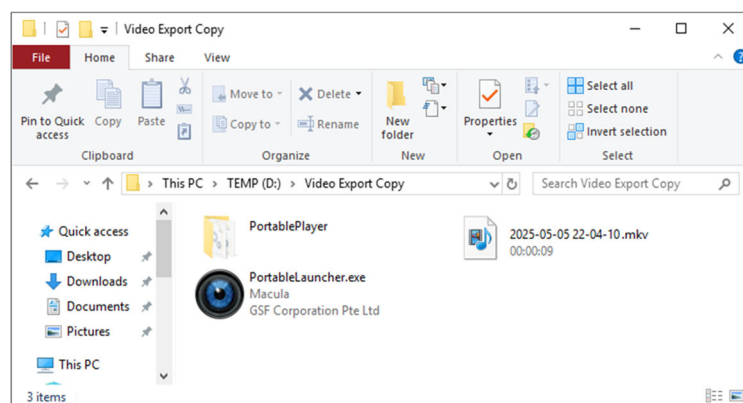


Figure 21

- 10) Run the PortableLauncher.exe application.

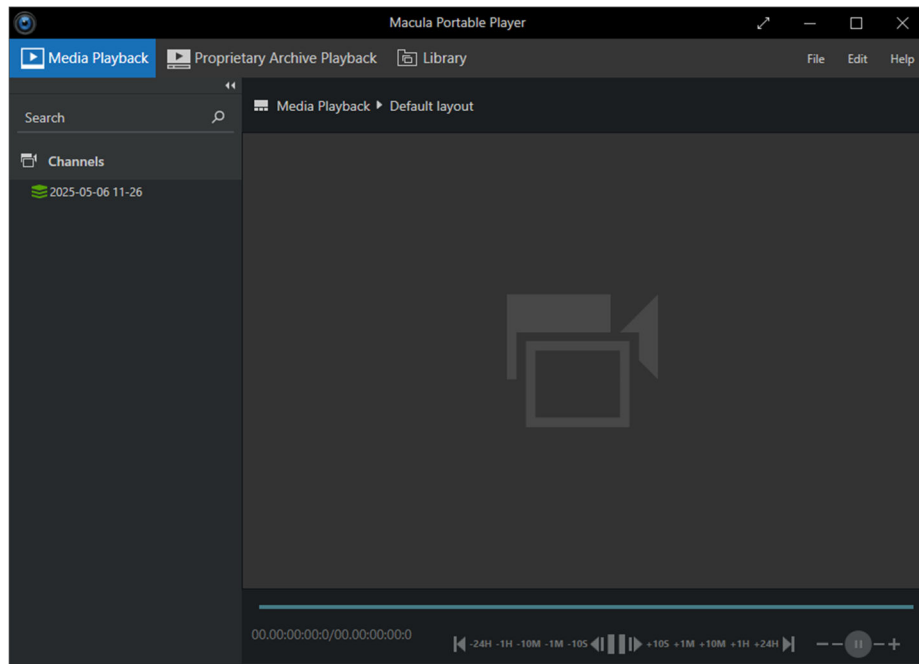


Figure 22

- 11) Select the video file from the left resource panel. Double-click. The video shall be loaded immediately, and you may start to playback.

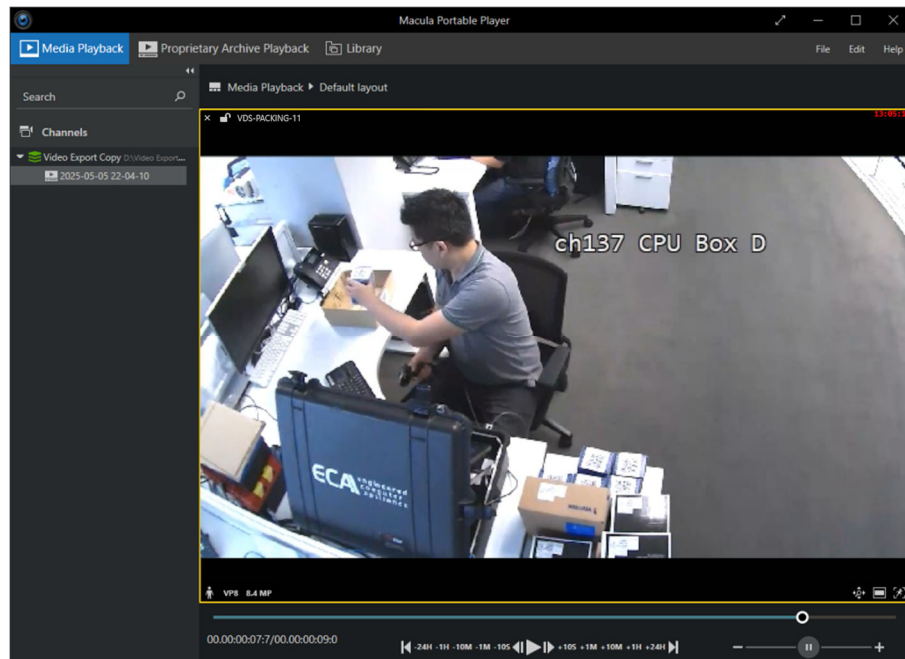


Figure 23

(End of VDS Operation Guide)