

Software User Manual

Video Management Tool (VMT)

MAE675UV2

REVISION HISTORY

Rev	Date	Reason for Revision	Author
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1.- PURPOSE

The purpose of this document is to explain how to install and use the software product (VMT – Video Management Tool - Security level). This software tool is used for monitoring the operation of the Train18V2 CCTV system equipment and managing the NVR video recordings.

2.- SCOPE

This document applies to the software product MAE675UV2 used for managing the CCTV System developed and manufactured by Medha Servo Drives Pvt. Ltd.

This video camera recording system is installed in the New Electric Cars that provide transport service

This document is intended for engineers and the maintenance personnel in charge of keeping the CCTV system in good operating condition, and the end customer.

3.- DOCUMENT REFERENCES

Documents

VMT User Manual	Installation and Maintenance Manual
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4.- ACRONYMS (ABBREVIATIONS) AND DEFINITIONS

Acronym	Definition
CCTV	Closed Circuit Television
CPU	Central Processing Unit
ECN	Ethernet Consist Network
IP	Internet Protocol
NVR	Network Video Recorder
PC	Personal Computer
PIU	Portable Interface Unit (maintenance laptop)
SATA	Serial Advanced Technology Attachment
SW	Software
USB	Universal Serial Bus
VMT	Video Management Tool

5.- GENERAL DESCRIPTION

The VMT is a comprehensive video management software tool which allows to connect to NVR system, video files download and view & play the downloaded files.

There are two deliverables of the product ('Setup_Video Management Tool - VMT <VV>.exe' for Security and 'Setup_Video Management Tool – VMTM <VV>.exe' for Maintenance) that give access to a different number of options on the main menu bar of the application but with identical functionality regarding the user interface.

6.- INSTALLATION AND MAINTENANCE

6.1.- Minimal Hardware and Software requirements

The VMT SW can be executed in the maintenance laptop/PIU that should meet the following minimum hardware configuration.


- Intel® i3 (3.2 GHz) or superior
- 8 GB RAM memory
- Hard Disk Drive SATAII 512 GB or superior
- 1 Gigabit Ethernet port
- USB 2.0 and 3.0 ports
- Windows 10 Pro or Windows 10 Enterprise 64 bits

Recommended hardware configuration:

- Intel® i5 (3.2 GHz) or similar
- 16 GB RAM memory
- Solid State Disk SATAIII 512 GB or higher storage capacity.

6.1.1.- Installation

In order to install the VMT, you must execute the installation file Setup_Video Management Tool - VMTM <VV>.exe; where <VV> refers to the executable software version.) supplied with the SW product deliverable by accessing its location from the Windows explorer. Follow the instructions of the setup wizard. The installation automatically creates a shortcut on the desktop and an option in the start menu, under All programs → VMT → Video Management Tool – VMT.

	Once the installation process is complete, open the application as indicated in section 6.2 by entering <i>vmtmnt</i> in the Name field and <i>vmtmnt</i> in the Password field
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6.1.2.- Uninstalling

To uninstall the program click on [Start](#) → [All programs](#) → [Uninstall Video Management Tool VMT](#).

6.2.- VMT Application

The VMT application can be executed in two different ways:

- Double click on the direct access icon of the application from the desktop.
- Select [Start](#) → [All Programs](#) → [VMT](#) → [VMT](#) from the Windows start menu.

You will be required to enter a user name and a password, before entering the main window of the application:

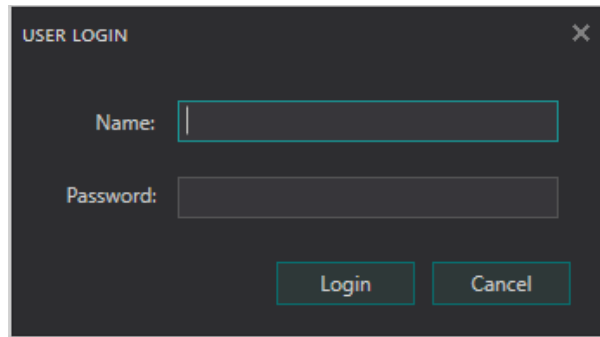


Figure 1. VMT: User logging

- Name: *****
- Password: *****

6.2.1.- USER INTERFACE

The user interface below corresponds to the VMT_M (maintenance level). Find below the options displayed on the main menu bar of each product.

VMT for maintenance (VMT-M)

- NVR
- Player



Figure 2. VMT menu bar and drop-down menu options

6.2.2.- Connection Settings

The 'Connection Settings' menu option provides the graphical user interface for connecting and establishing communication between the VMT and the NVR. It allows you to choose between the connection options indicated in the sections below.

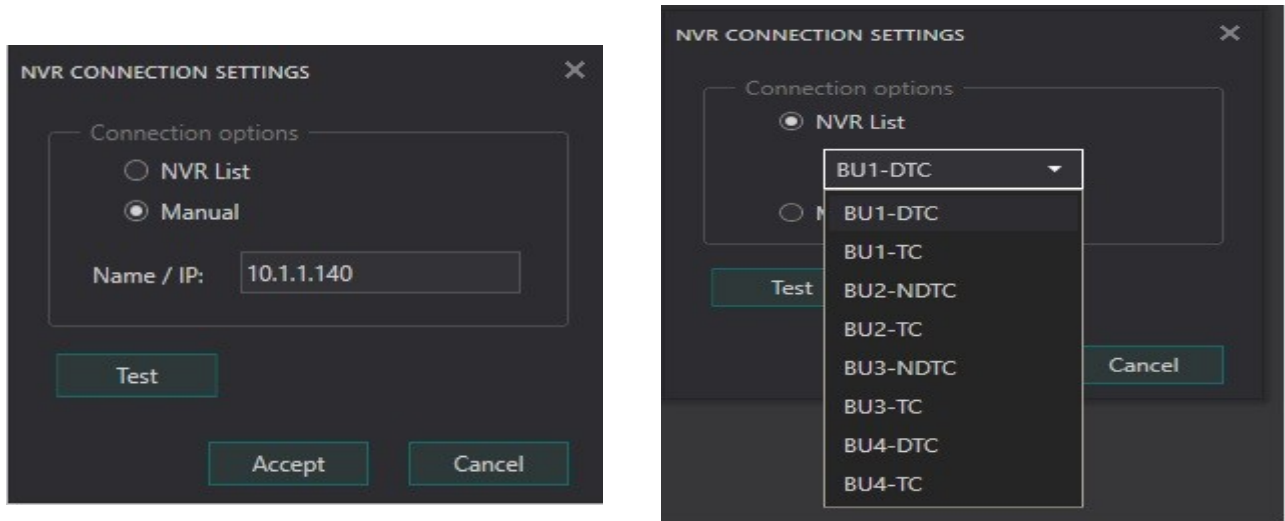


Figure 3. VMT: NVR – Connection Settings

The 'Connection Settings' menu option provides the graphical user interface for connecting and establishing communication between the VMT and the NVR. It allows you to choose between the three connection options indicated in the sections below.

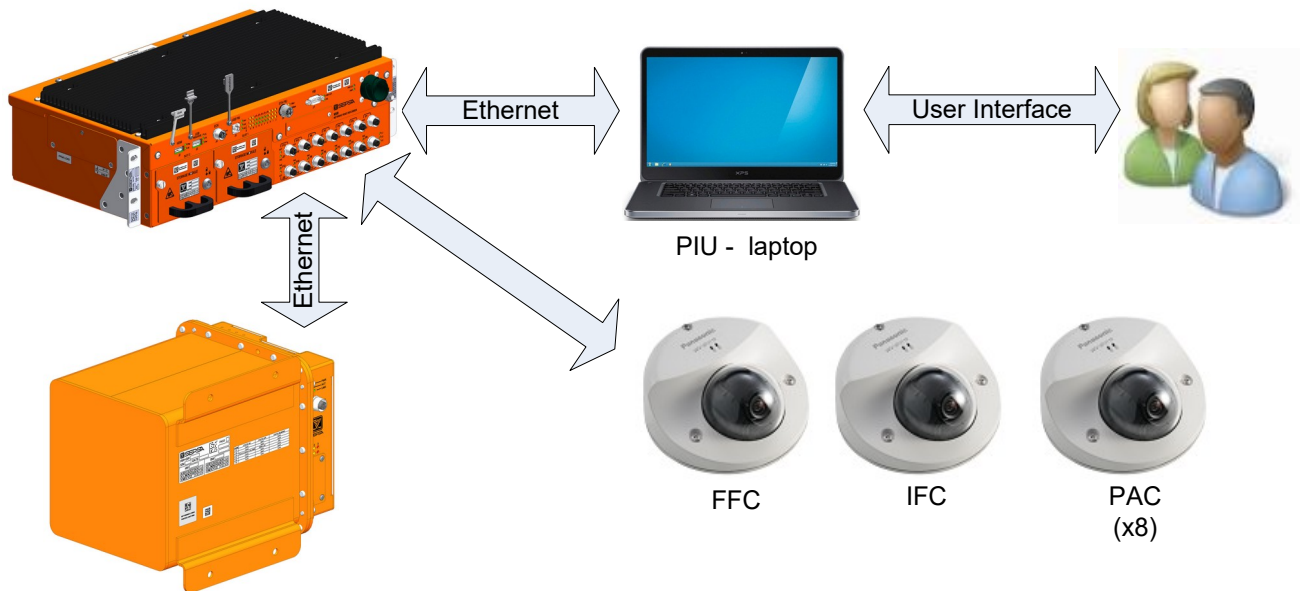



Figure 4. VMT: Connecting PIU to NVR

	<p>Make sure the PIU laptop running the VMT application is not configured with a fixed IP address, otherwise, select in the configuration menu Internet <i>Protocol TCP/IP Properties (TCP/IPv4)</i> the option <i>To Obtain Automatically an IP address</i>.</p>
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Click on the [Test](#) button to check that the VMT can establish connection with the NVR. If the connection can be established the message **NVR connection OK** appears on the screen. Then, click on the [Accept](#) button.

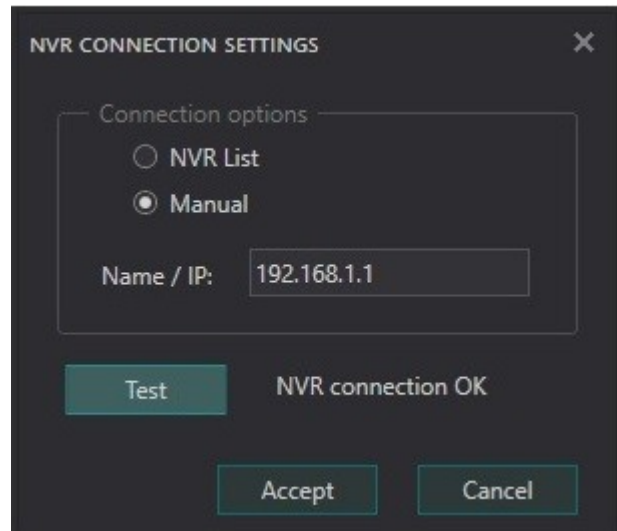


Figure 5. VMT: NVR – Connection Settings – NVR connection OK

6.2.3.- Video Download

The 'Video Download' function provides the user interface for video download from the NVR.

To access the 'Video Download' window, from the VMT menu bar click on [NVR](#) → [Video Download](#)

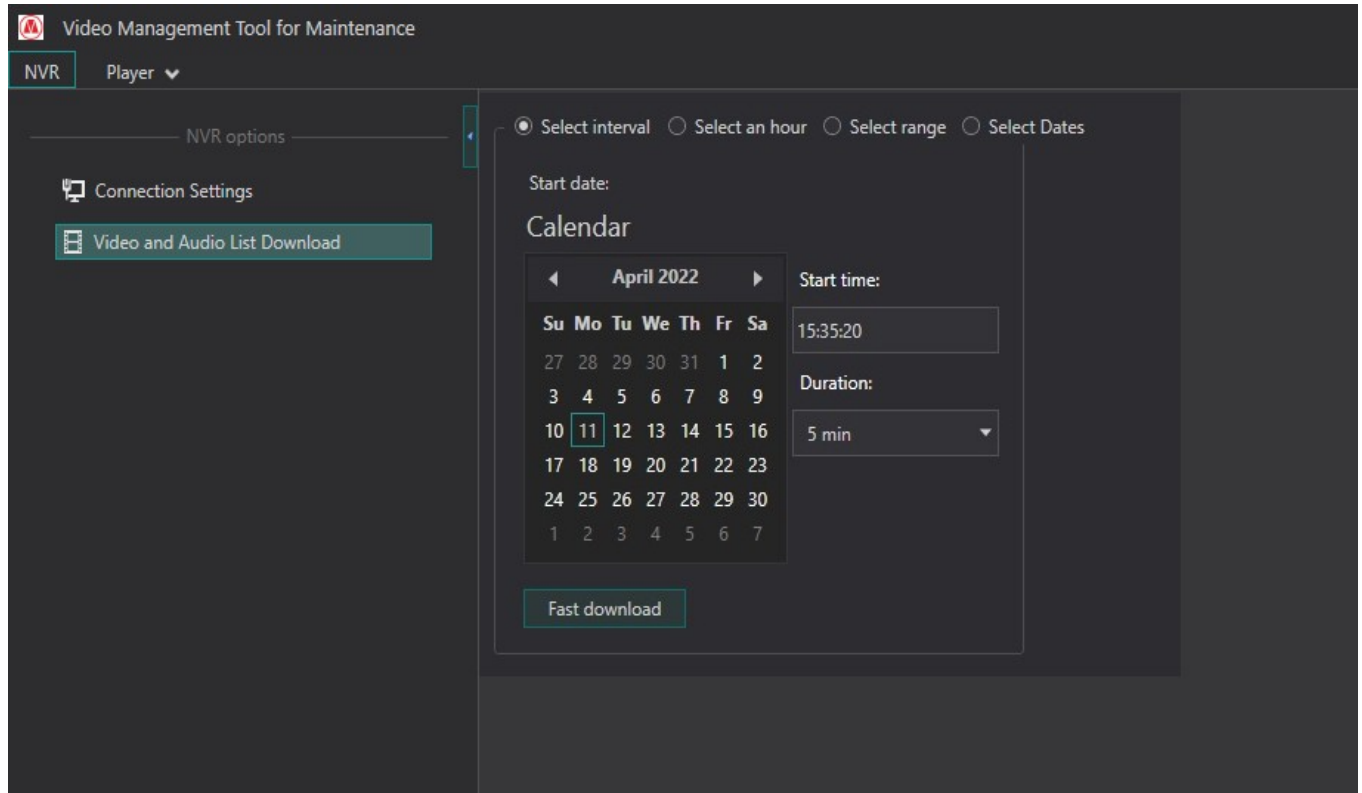


Figure 6. VMT: Video Download



The recording files will be one minute long. Therefore, there will be sixty video files for each hour of video recording.

6.2.4.- Select interval

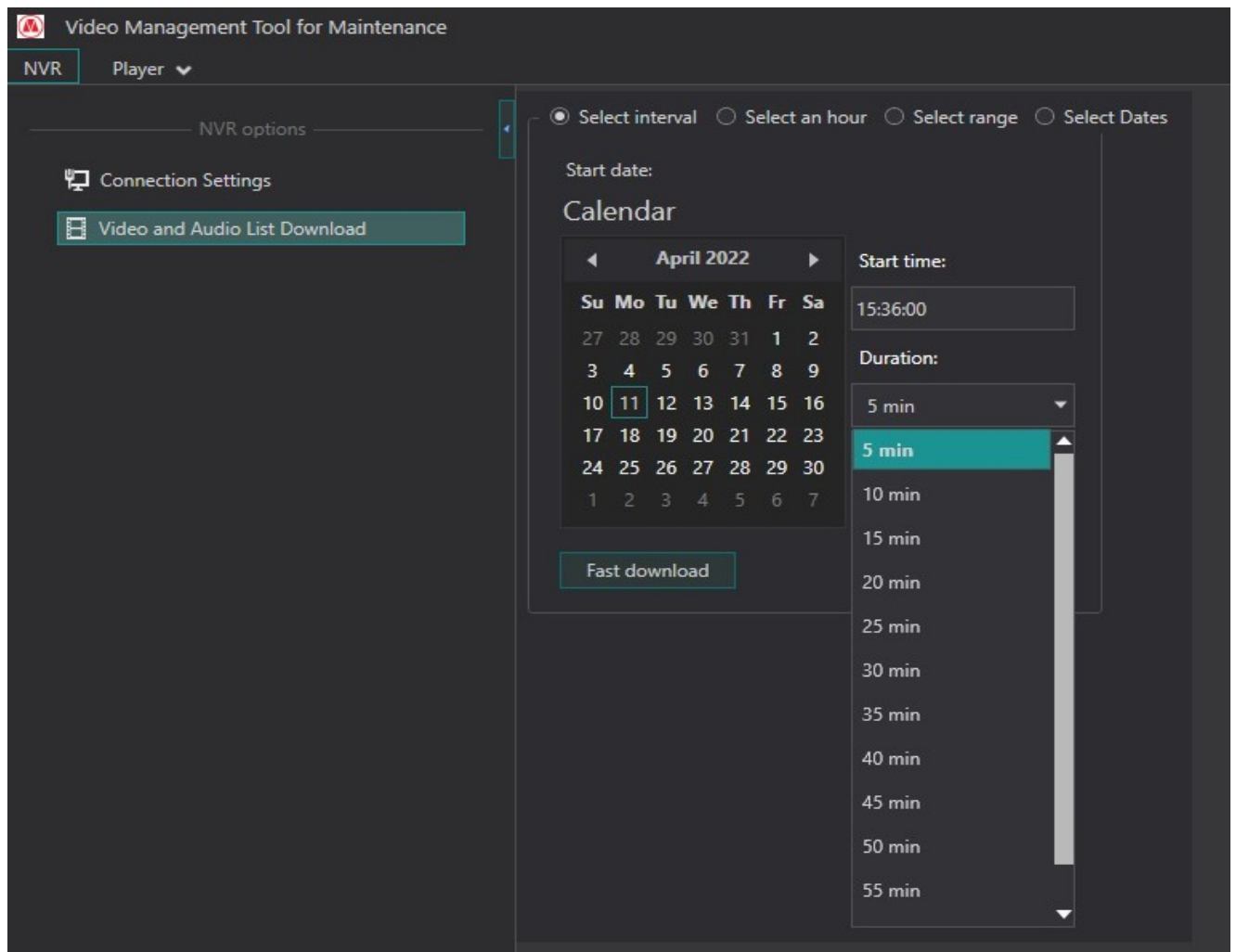


Figure 7. VMT: Video Download – Select Interval

To download the recordings corresponding to a time interval of video content, perform the following steps:

1. Select the recording day of the video content that you want to download in the **Start date** selection calendar or the 'Start date' selection tree.
2. Enter the start time in the **Start time** box.
3. Open the drop down list in the **Duration** selection box to select the desired time range.
4. Click on the [Fast download](#) button.
5. A dialog box will appear to select the destination folder to which you want to download the video files. After selecting the destination folder, click on [Accept](#).
6. The video download process will begin. Once the download process has been completed, click on [Close](#).

6.2.5.- Select an hour / Select Dates

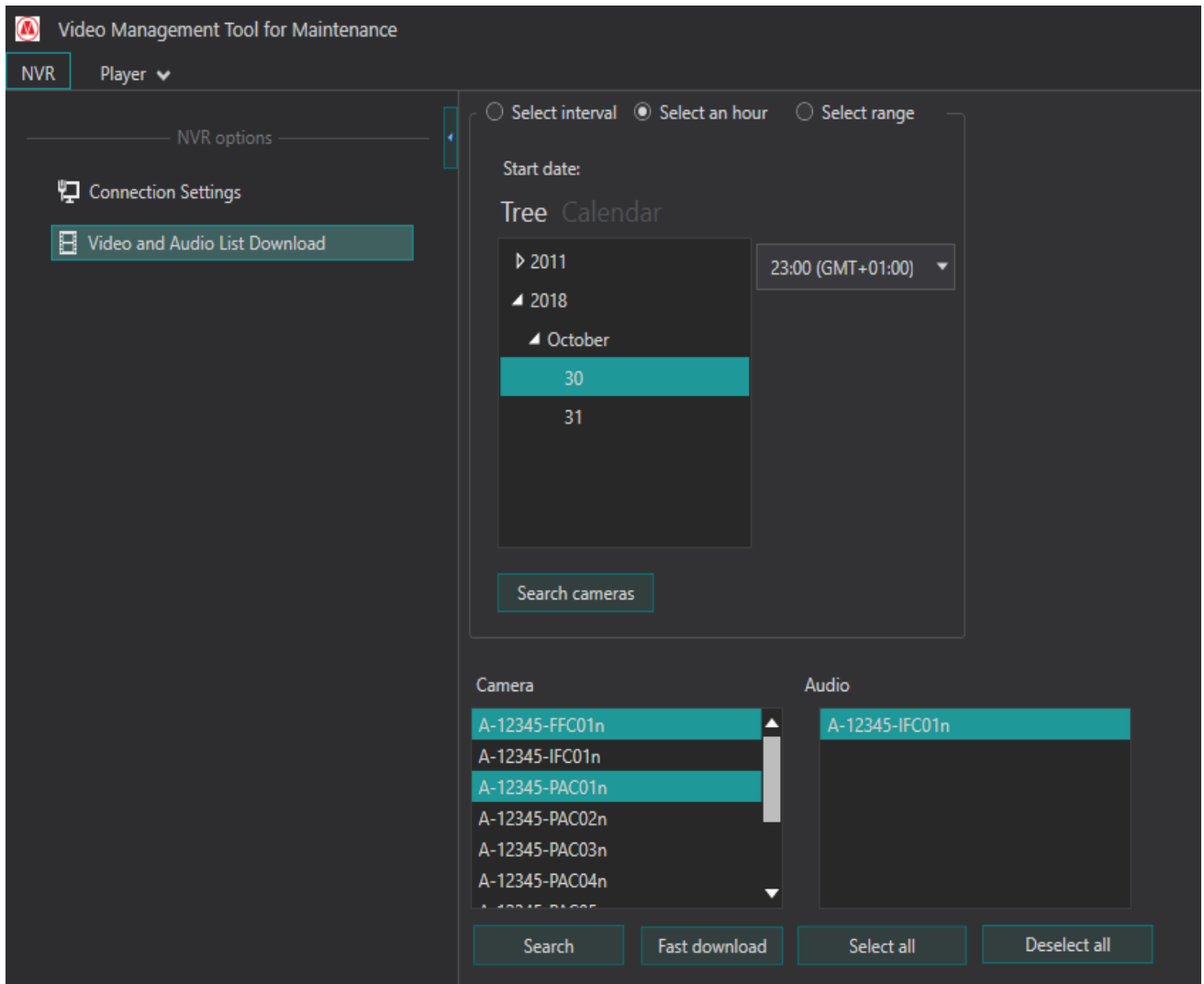


Figure 8. VMT: Video Download – Select Interval

To download the recordings corresponding to a full hour of video content, perform the following steps:

1. Click on the option [Select an hour](#) option.
2. Select the recording day of the video content that you want to download in the **Start date** selection tree/calendar.
3. Open the drop down list in the **Start time** selection box to select the desired recording time.
4. Click on the [Search cameras](#) button.

5. Select the cameras from which you want to download the recordings in the **Camera** selection box.
6. Select the audio sources from which you want to download the recordings in the **Audio** selection box.
7. Click on the [Fast download](#) button.
8. A dialog box will appear to select the destination folder to which you want to download the video files. After selecting the destination folder, click on [Accept](#).
9. The video download process will begin. Once the download process has been completed, click on [Close](#).

6.2.6.- Select range

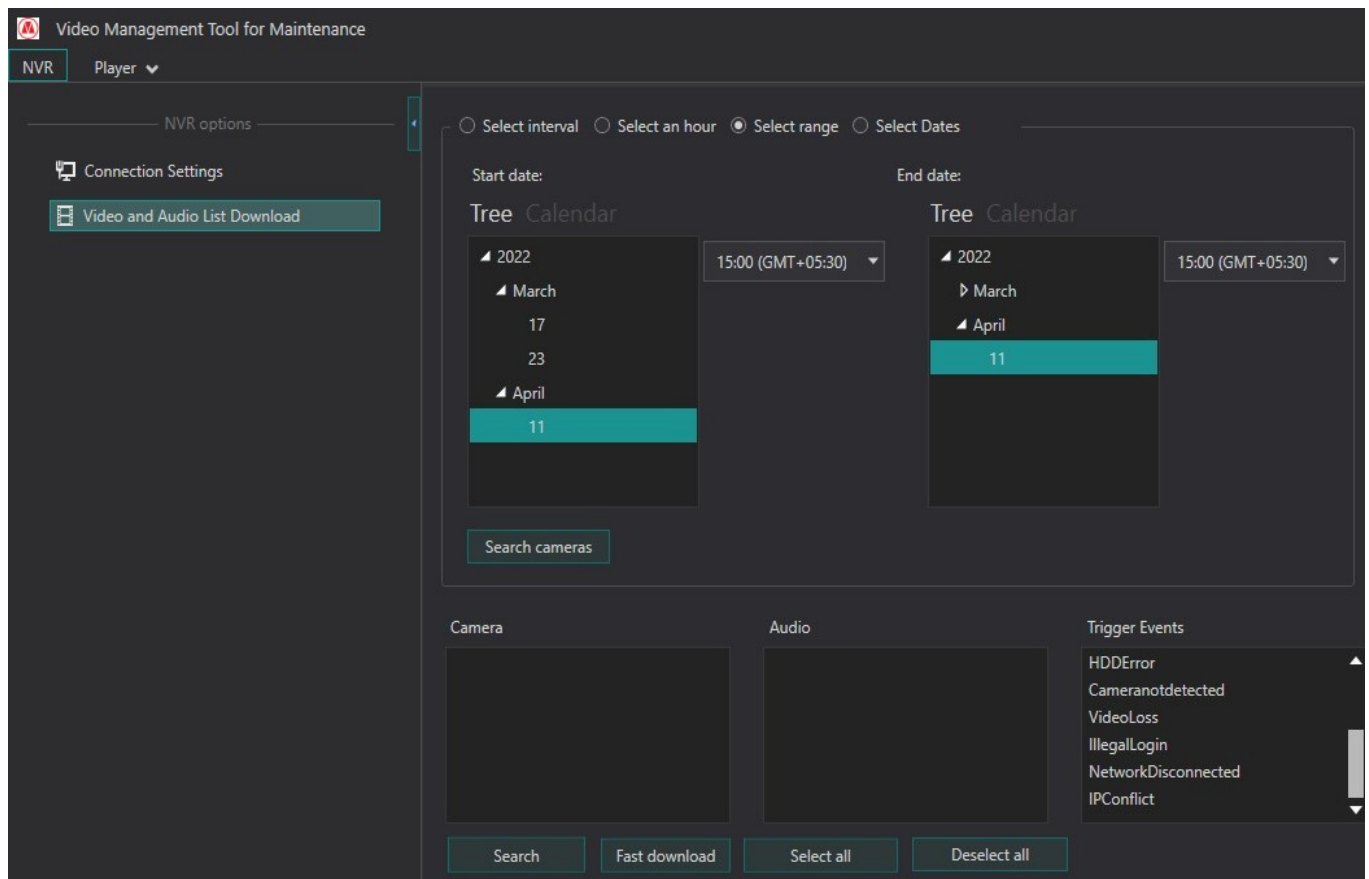


Figure 9. VMT: Video Download – Select range

To download the video content recorded during a time interval between two different dates, perform the following steps:

1. Click on the option [Select range](#).
2. Select the start day of the recordings that you want to download in the **Start date** selection **Tree/Calendar**.
3. Open the drop down list in the 'Start time' selection box to select the desired recording time.

4. Select the end day of the recordings that you want to download in the **End date** selection **Tree/Calendar**.
5. Now for the steps to follow to continue the download process, repeat the instructions given from the step 4 of section 6.2.5.

6.2.7.- **Player**

Click on 'Player' from the VMT menu bar to access the menu with all the available playback options.

6.2.8.- **Video Downloaded**

The 'Player' menu option is used to playback video files via a friendly interface that allows you to select video recordings from different cameras to be reproduced at the same time from NVR video recordings saved in a local directory of the PIU laptop/Office PC . To access the 'Video Downloaded' window:

1. Click on [Player](#) → [Video Downloaded](#) from the main menu bar.
2. Select the path location of the folder that contains the video recordings for video playback, click on [Open](#).

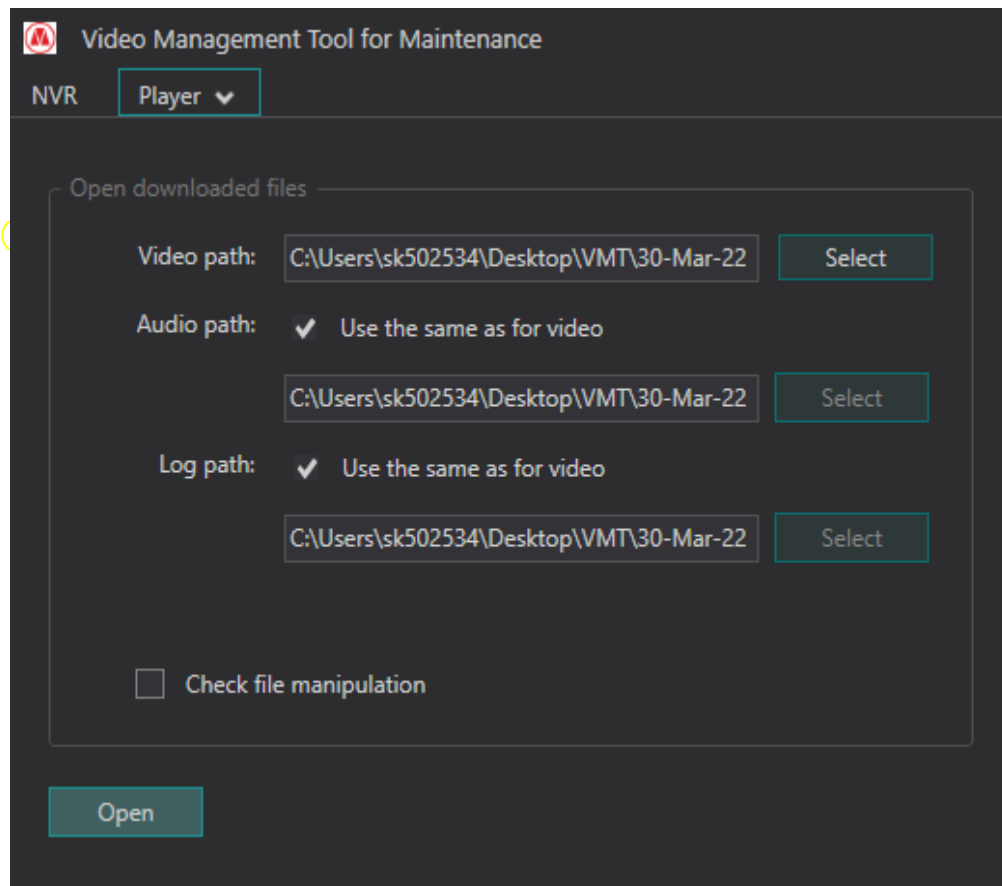


Figure 10. VMT: 'Player' function for video downloaded

3. Click on play and the video playback will start (see Figure 11).

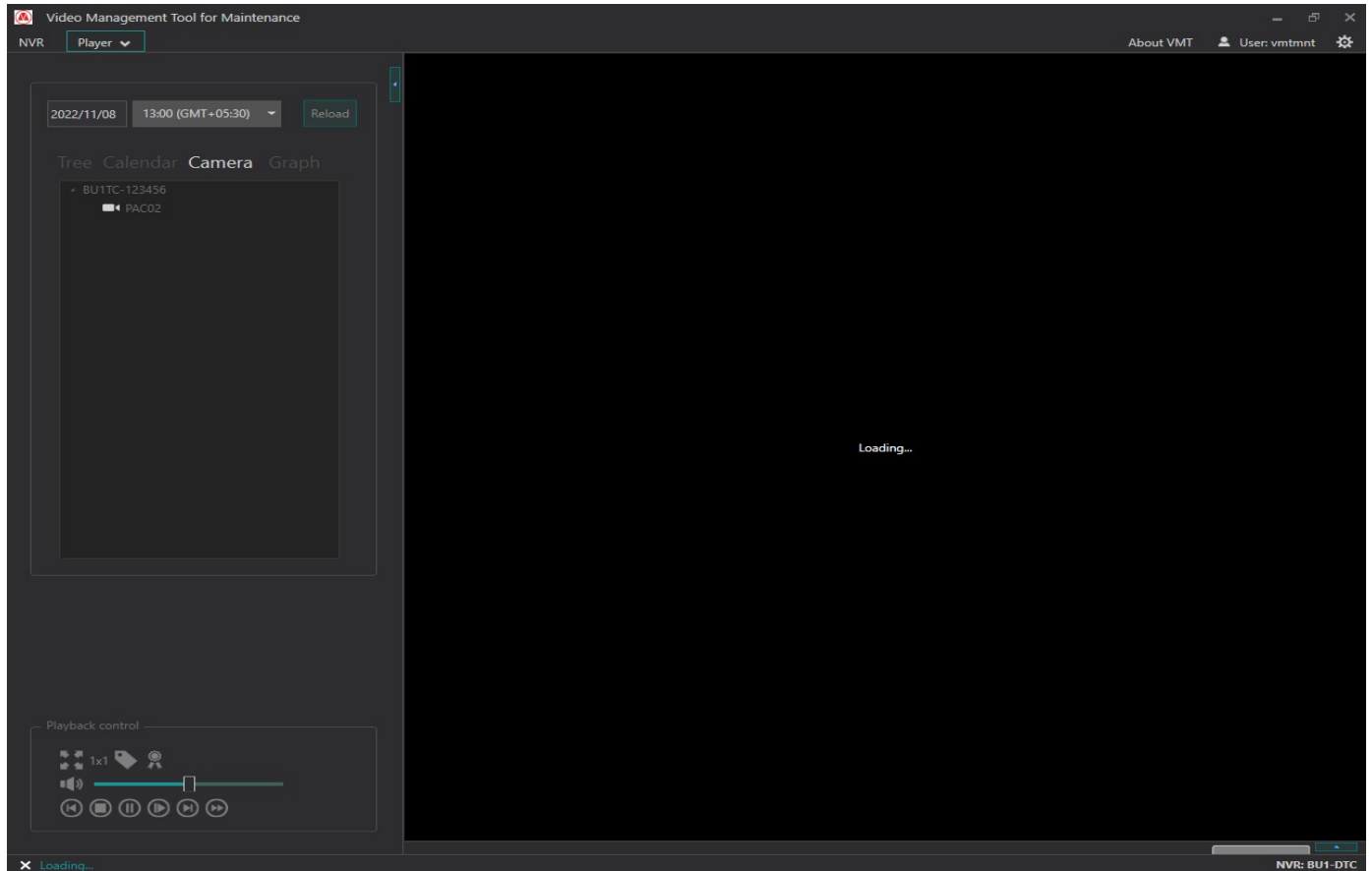


Figure 11. VMT: Player - NVR Video Player – Loading Video

Here the selected Camera files will be converted into .MP4 format and the video will be played in the new window as shown below.

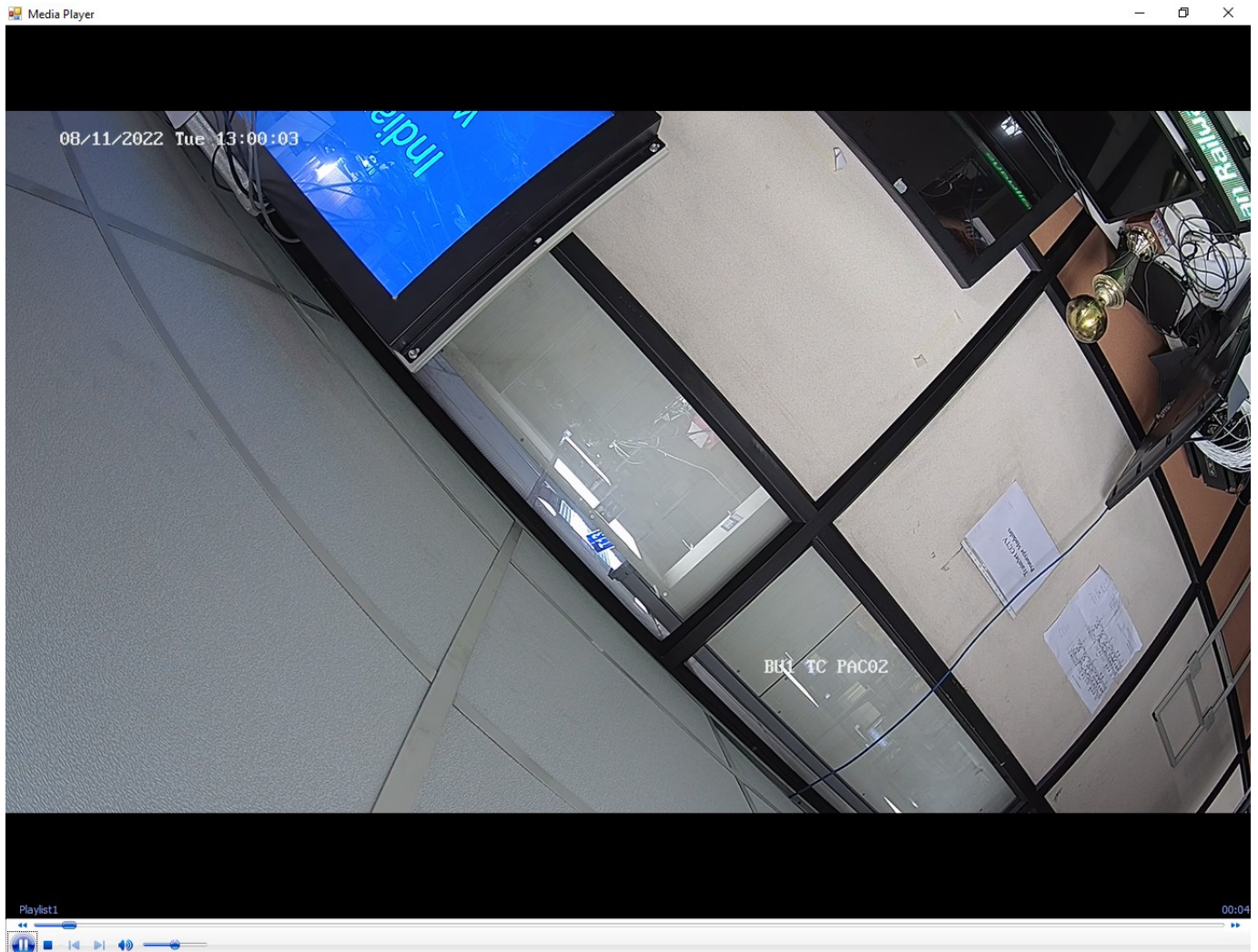


Figure 12. VMT: Player - NVR Video Player - Playback of NVR recordings

6.2.9.- Export Video

The 'Export Video' allows the user to export video in different standard formats from the 'video playback' user interface.

You can access the 'Export Video' function by opening the pop up menu on a video channel from the 'Video Playback' interface window. To do so, click with the right button of your mouse on the video channel from which you want to export video. Once the pop menu appears, select the [Export Video](#) option and the window shown in following figure will appear.



Figure 13. VMT: Video Playback - Video channel's pop up menu

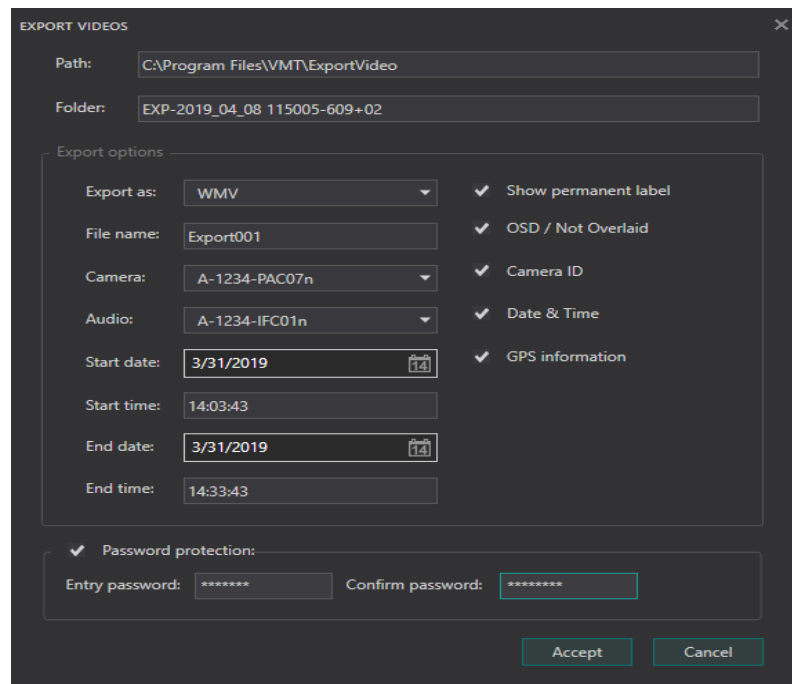


Figure 14. VMT: Video Playback - Video channel – Export Video's menu options

The following fields are cannot be modified:

- **Path:** 'C:\Program Files\VMT\ExportVideo' is default option for 'Export Video'.
- **Start date:** corresponds to the start date selected for playback of the video recordings.
- **End date:** corresponds to the end date selected for playback of the video recordings.

To export video, perform the following steps:

1. Open the drop down list in the **Export as** selection box to select the desired enhance video format (MP4 format).
2. Enter the name for the video file in the **File name** field.
3. Open the drop down list in the **Camera** selection box to select the camera from which you want to export the video.
4. Open the drop down list in the **Audio** selection box to select the audio source from which you want to export the video. (No sources available in this project)
5. To specify a time range for video export, fill in the **Start time** and **End time** fields with the desired values.
6. Once the process has been completed and the video has been protected, click on [Accept](#). The export process of video will begin.
7. Once the export files process has been completed, click on the [Close](#) button.

The exported file will be saved in the path location. You can play the video file by just clicking on it to open it.

6.2.10.- **About VMT**

When selecting [About VMT](#) on the menu bar, the 'ABOUT VMT' window appears showing general information about the application such as its name and current version.

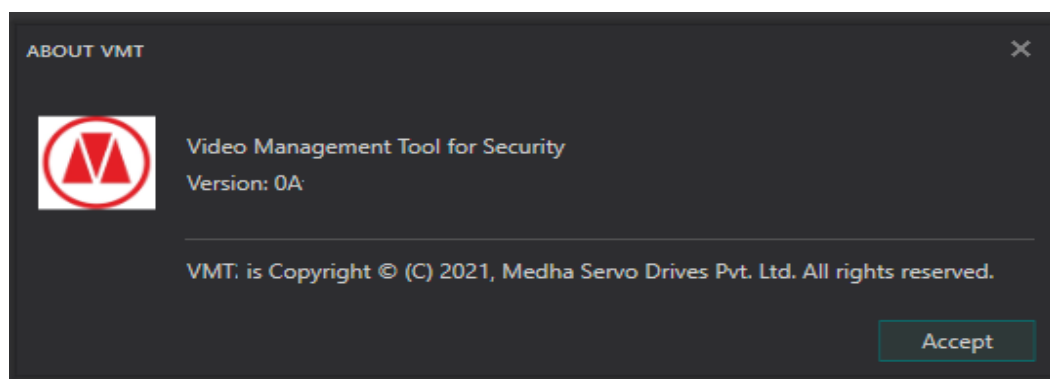


Figure 15. VMT: About window