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1. Introduction

1.1. Purpose and Scope

This user manual is intended to provide end users with helpful information, so they can successfully complete tasks using our CVR product. This manual includes a description of the system functions and capabilities, contingencies and alternate modes of operation, and step-by-step procedures for system access and use.

1.2. Organization and brief Summary

1.2.1. INTRODUCTION

This manual includes a description of the system functions and capabilities, contingencies and alternate modes of operation, and step-by-step procedures for system access and use.

1.2.2. SYSTEM CAPABILITIES

This section provides a brief overview of the system and its capabilities.

1.2.3. DESCRIPTION OF SYSTEM FUNCTIONS

This section describes each specific function of the system.

1.2.4. OPERATING INSTRUCTIONS

This section provides detailed, step-by-step system operating instructions.

1.2.5. ERROR HANDLING

This section should address error message and help facilities.

1.2.6. HELP FACILITIES

This section describes any resident help software or any Service or contractor help desk facility that the user can contact for error resolution.
1.3. Points of Contact

If any user requires assistance or desires to give feedback on our product, then CVR incorporated is more than willing to help you. Feel free to call us or send an email to the appropriate address.

Service: 1-800-support(7877-678) / support@cvr.com
Feedback: 1-800-comments(2666-3687) / comments@cvr.com
Times of operation: mon-sunday, 9 am - 9 pm

1.4. Primary Business Functions

The intended use of the CVR system is to record video as seen by the user, and allow for simple record editing. Any use that falls outside of this scope will not be covered in this document, nor will it be supported by CVR INC. CVR INC is not responsible for the misuse of the product or any of its consequences.

1.5. Glossary

This user manual uses terms that have specific meanings. All words that have specific meanings will appear in the following table, and be italicized in the document.

<table>
<thead>
<tr>
<th>Term</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Record</td>
<td>The information stored on the patch after the patch has been activated, and before it has been wiped.</td>
</tr>
<tr>
<td>Patch</td>
<td>The physical strip placed on the head; used in conjunction with our CVR software to record vision</td>
</tr>
<tr>
<td>Cropping</td>
<td>The act of selecting multiple frames between a start and end frame.</td>
</tr>
<tr>
<td>Format</td>
<td></td>
</tr>
<tr>
<td>Orange</td>
<td>This is a cautionary message. Take note of what is being said, as orange formatting usually contains non intuitive description.</td>
</tr>
<tr>
<td>Active</td>
<td>Refers to a CVR patch that has been paired and is actively recording.</td>
</tr>
</tbody>
</table>
2. System Capabilities

2.1. Overview

2.1.1. Hardware

The CVR *patch* does the bulk of the work in our CVR product. However, it is designed to be unobtrusive and require little attention for the user while it performs its actions.
2.1.2. Software

The CVR software, while doing little itself, is the primary interaction point for the user and the CVR product.
2.2. Purpose

The CVR hardware has 1 main capability:
- Creating a record of the users vision.

The CVR software has 2 main capabilities:
- Record cropping
- Record exporting

2.3. General Description

Overview of the system capabilities, functions, and operation, including the specific high-level functions performed by the system.

- Use CVR Software.
  - Testing a CVR.
  - Exporting video.
  - Resetting start and end bars.
  - Moving the start and end bars.
  - Pair CVR.
  - Wipe CVR.
  - Navigating through a video with the Recording Playback Controls.

- Use CVR Patch
  - Connecting a CVR Patch to a device.
  - Pairing a CVR Patch to a device.
  - Attaching a CVR to user.
  - Downloading videos from a CVR Patch.

3. Description of System Functions

3.1. Pairing Patch with Controlling Software!

In order for the patch to start recording, it first needs to be paired with the CVR software. This pairing action binds the patch to this instance of the software; no other software will be able to communicate with the patch after pairing. Paring is an unrecoverable process, once this action is taken the patch will only communicate with this device.

To pair a patch with the software, first connect the patch to the controlling device (see 4.4 Connection Patch for instructions). With the patch connected open The CVR software. The software should recognize the connected patch and display a message on the viewing screen. Click the green button labeled Pair. You will see
the loading animation appear in the viewing screen. After a few seconds your CVR patch will become paired and will start the recording process (become active).

3.2. Attaching a Patch and Patch Placement

CVR patches have an adhesive backing to them, allowing for users to place them either on their skin or clothing. The patch must be within 12 inches of the user’s brain. If the patch is removed from the 12 inch boundary, then the visual information of the user will not be recorded; grey frames will be recorded instead.
3.3. Testing a CVR

Proper *patch* placement is required to ensure good video recording quality. Video can be played back real time to test different *patch* locations. After the *patch* has been paired with the device and is still connected to the device, attach the *patch* to your desired location. Click the grey 'Test CVR' button in the top left of the CVR software window. The viewing screen should now display your vision.

3.4. Making a Recording with a CVR Patch

To make a *recording* with the CVR, you must follow these steps.

- If you have not already done so, install the CVR Software.
- Run CVR Software.
- Connect the patch to your device (4.4)
- Pair patch to device (3.1)
- Detach patch from device (4.5)
- Attach the patch to yourself (3.2).
- Enjoy life.
- Run CVR Software.
- Connect the patch to your device (4.4)

The CVR will now automatically download the *recording* from the *patch* up to the point of connection and will render it to the main viewing screen. You are now free to crop and export videos as you choose.

3.5. Downloading a Recording

When a user attaches an *active* CVR to their device while running the CVR Software, the Software will automatically download all of the frames up to the point of connection to the device. The video is stored inside of the software’s video buffer and will be deleted when the program is closed.

3.6. Playing Back a Recording

To playback a video, there must first be a video in the video buffer. This can be acquired from connecting an *active* patch to the device while running the software. When a video is downloaded, a user can play and navigate through the video by using the Recording Playback Controls located directly under the Recording Playback screen.

3.7. Cropping a Recording
To crop a recording, a user can drag and drop the red and green bars on the Timing Bar under the Playback Controls. This will tell the software what frames to export from. To reset the green and red bars back to their original positions, a user can click the grey Reset button.

3.8. Exporting A Cropping

When the user is happy with the placement of the red and green bars on the Timing Bar, they can click the grey button labeled Export. This will render a video with the frames between the red and green bars onto the desktop.

3.9. Wiping a Patch!

Information security may be an important issue for some. Although the patch, once paired, will only communicate with its paired device, it is possible for malicious entities to recover the encrypted recording from the patch. We strive to protect your recordings and use the best known encryption while storing your recordings. As with any this security related, computers get faster, and the security community discover previously overlooked flaws. To combat the possibility of your recordings being stolen, we have included the option to permanently remove a recording from patch. Note this action is unrecoverable.

To wipe a patch’s recording, first ensure the patch is connected with its paired device’s software. Click the red ‘Wipe CVR’ button beneath the viewing area. The main viewing screen will display a processing pinwheel as it deletes the recording.

Once the recording has been deleted the viewing area will return to its defaults blank state, and the displayed timer bars should indicate a recording with no length. If the 24 hour battery has not died, the patch can be reused to make additional recording.
4. Operating Instructions.

4.1. Software Installation

To install the CVR Software, launch CVR_Software.exe and follow the instructions on in the Setup Wizard.

![Setup Wizard]

- Welcome to the CVR Software Setup Wizard
  - This will install CVR on your device.
  - It is recommended that you close all other applications before continuing.
  - Click Next to continue or Cancel to exit Setup.

![Preparing to install]

- Preparing to install
4.2. Software Corruption

It is possible for the software to become corrupted due to the system files being deleted or misused. If the software fails to run, follow the steps to Uninstall the Software and then install the software again. This will restore the files.

4.3. Uninstall Software

To uninstall the CVR software from your device;

- Control Panel > Programs and Features.

- Find CVR Software in the list of programs on your device.

- Click Uninstall. You will see the following image appear. Follow the instructions of the Setup Wizard.
Welcome to the CVR Software Uninstall Wizard.

Click Next to uninstall Software.

Finished Uninstalling CVR Software.

Click Finish to exit the Uninstall Wizard.
4.4. Connecting Patch

In order for the patch to communicate with the controlling CVR software, it first needs to be plugged into a machine running this software. The patch uses a Micro-B USB connector on its underside to communicate with other devices.

To connect the patch, plug the supplied USB cable into both the patch and the controlling device. To confirm the patch is successfully connected, you can check your system tray and mouse over the CVR icon. You should see the following image.

4.5. Disconnecting Patch

Before disconnecting a patch ensure the patch is not communicating with the controlling CVR software. To close down any open CVR software, simply close the CVR software window with the window controls. The software will notify you if closing the application will preemptively terminate any running actions and request confirmation before terminating.
5. Error Handling

If the error persists after following the related error troubleshooting process, please contact our technical support staff at 1-800-support(7877-678) / support@cvr.com

5.1. Error Codes

5.1.1. ERROR CODE 9001 cannot find patch

5.1.2. ERROR CODE 9002 cannot export video

5.2. Software could not find connected Patch

If the software is unable to locate a connected patch recheck everything is connected properly and try again. Sometimes dirt and dust can prevent the operating system from recognizing plugged in hardware, ensure all connections are clean before connecting devices. Lastly, although we strive to provide quality products, the patch could be defective. Try connecting a different patch.

5.3. Can not Export Video

If your desktop is completely full, then the CVR Software will not write to it. Make space on your desktop and try again.

5.4. Help Facilities

If any user requires assistance or desires to give feedback on our product, then CVR incorporated is more than willing to help you. Feel free to call us or send an email to the appropriate address.

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