

# MVR

## Instructions for Use SUPPLEMENT

### WEB Streaming

This supplementary document for the MVR series medical video recorders describes the instructions for the administrator for setting up WEB streaming and the user instructions for operating WEB streaming.

For general descriptions of functions, precautions, safety instructions, description of intended use and technical specifications, refer to the general *Instructions for Use* of your MVR Recorder before reading this supplement.

#### Contents

1	General Information about WEB streaming (Video Streaming) .....
2	Overview .....
3	WEB stream features .....
4	Requirements .....
4.1	MVR Firmware.....
4.2	WEB browsers .....
5	For Administrators: Preparations.....
5.1	Network .....
5.2	User Accounts: .....
5.3	Activating Streaming on the MVR.....
6	For Users: How to use WEB streaming.....

#### 1 General Information about WEB streaming (Video Streaming)

WEB streaming (also called video streaming) is a way to watch the live study of the MVR recording externally via a WEB browser.

If audio is enabled in the settings and a microphone is connected, the viewer can also receive and play back audio information as part of the video stream.

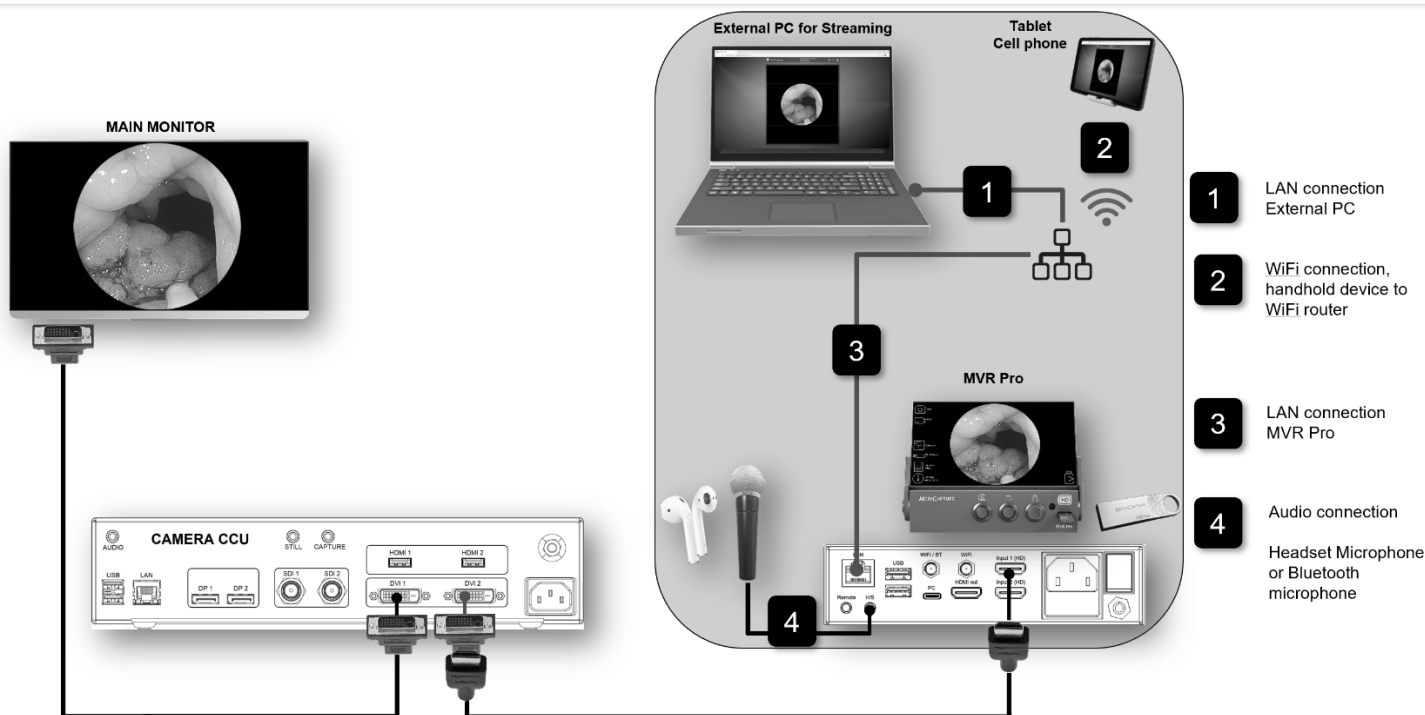
WEB streaming may be used for educational or training purposes, or to obtain an external opinion by consulting.

**Important: The WEB stream must not be used for diagnostic purposes.**

The activation of the WEB stream is secure because

- 1.) the external user must have a password protected user account on the MVR Recorder and
- 2.) the user of the MVR Recorder must actively confirm the request to view the WEB stream. The user of the MVR can cut the WEB stream at any time.

## 2 Overview



## 3 WEB stream features

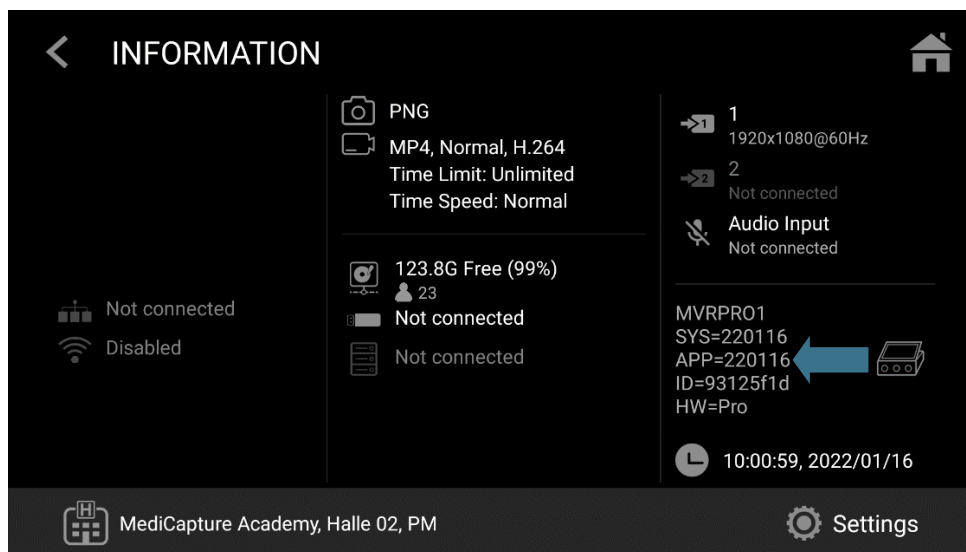
- Resolution of the WEB stream: 1280x720p30
- Viewing options on the WEB browser:
  - Full screen view,
  - Picture-in picture overlay to other open windows on the PC
  - Snapshot option (if your WEB browser supports this right mouse button function).
- Maximum number of stream clients at the same time: 8

Streaming has a lower priority compared to other tasks of the MVR device, such as recording, transmission to PACS, network storage etc.. The streaming quality can be automatically reduced to meet the requirements of the more important tasks.

## 4 Requirements

### 4.1 MVR Firmware

MVR Firmware version 220116.upd (or later) needs to be installed on your MVR recorder. You can find the currently installed firmware in the overview on the information page.



If your MVR is running previous firmware, please contact your MediCapture support for instructions on installing a current version.

### 4.2 WEB browsers

The WEB stream can be activated on PC / laptop via network and Android mobile devices, using the WiFi connection. Recommended WEB browsers are **Google Chrome, Microsoft Edge and Firefox**.

Apple iPhones and MAC Books are not supported by the *Safari* browser due to incompatibility.

## 5 For Administrators: Preparations

### 5.1 Network

The MVR recorder and the connected device for WEB streaming need to be connected to the same network. Either your local ethernet (LAN) or your WiFi (WLAN).

#### LAN:

Check your network settings on the MVR device:

**Settings → Advanced → Connections → Network**

#### WiFi:

Connect your MVR to your WiFi:

**Settings → Advanced → Connections → WiFi.**

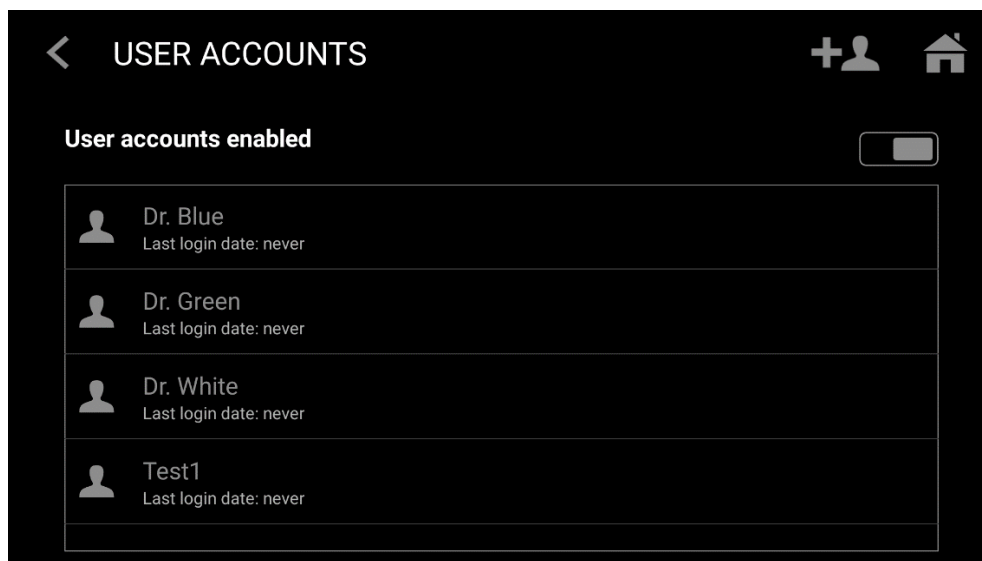
- Enable WiFi
- Select your WiFi from the list and connect by entering your WiFi password.

## 5.2 User Accounts:

For data protection reasons, the WEB stream can only be requested by a user who is registered on the MVR recorder via a user account. Multiple user accounts can be created.

The MVR recorder must have the user accounts enabled.

**Settings → Advanced → User accounts.**



After enabling and creating user accounts, the use of the recorder is now protected by these user accounts and their passwords. Every MVR user must login via his account.

**Important note:** The user account login information must not be forgotten. MediCapture does not have a master password to unlock the recorder if User Account login information (name + password) is not available.

**Tip:**

Protect the Advanced settings section of the MVR recorder with an administrator password. Besides protecting your important settings, this administrator password serves as a master password for user accounts.

The **administrator password** is locking the Settings section “Advanced Settings”.

Note about **User Account** passwords:

If only one user account password was lost, the MVR does not need to be completely reset to factory settings if the administrator has previously locked the advanced settings with the administrator password.

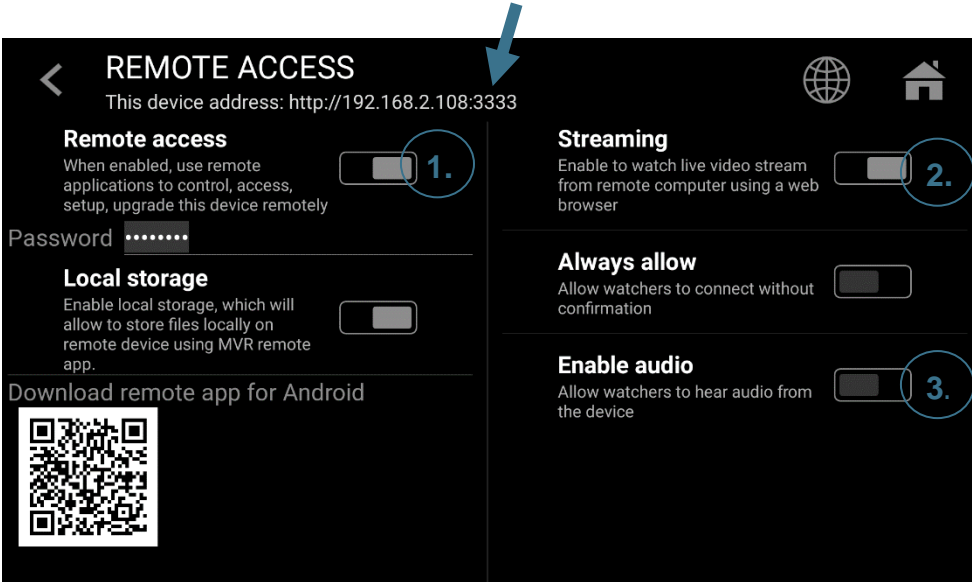
The administrator can always log-in the MVR with his administrator password. No User Name is required for this log-in, just the password.

The administrator can then delete User Accounts, create new User Accounts or disable the User Account function.

### 5.3 Activating Streaming on the MVR

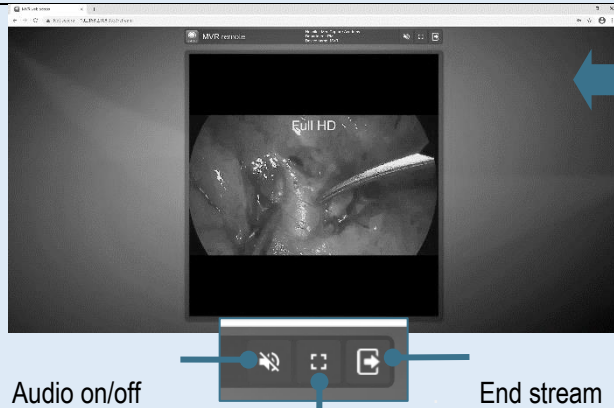
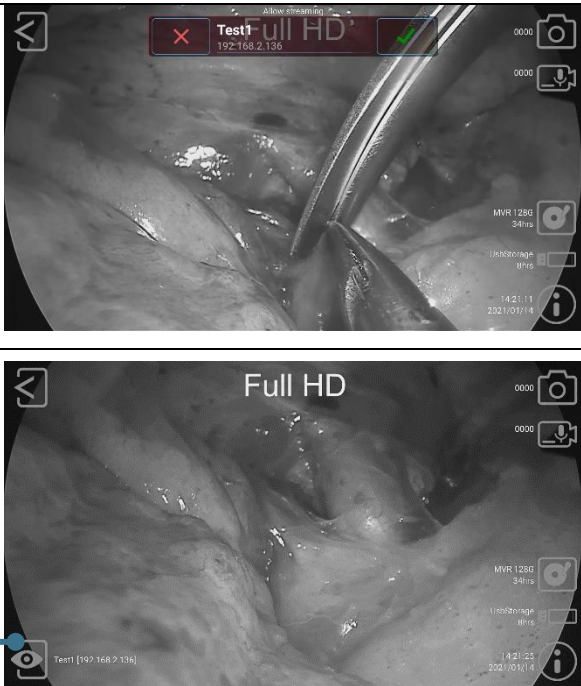
Streaming is part of the Remote Access section in Settings:  
**Settings → Advanced → Connections → Remote Access**

**Important.** This is the IP address of your MVR to connect via IP. In this example: **http://192.168.2.108:3333**  
IP address information must be provided to each WEB access user/client.



- 1. Enable Remote access
- 2. Enable Streaming
- 3. Optional: Enable audio if a microphone is connected to the MVR and you want to transmit voice or audio information

## 6 For Users: How to use WEB streaming

Operation of the WEB browser	Operation of the MVR recorder
<p><b>1. Open your WEB browser and type the IP-address of the MVR recorder with extension /stream.</b>  <b>Example: <a href="http://192.168.2.108:3333/stream">http://192.168.2.108:3333/stream</a></b></p> <p>Your web browser shows the login screen.</p> <p><b>2. Apply for a streaming session by entering your User Account information:</b></p> <p><b>User Name + Password</b></p>	<p><b>1. Start a normal recording session with live camera image on the screen.</b>  <b>WEB streaming is only possible during an active study!</b></p>
<p>After acceptance by the MVR user, the stream is active.</p> <p>The window can be set to full screen format. If audio is present, it can be enabled or disabled. You can terminate the stream any time. A new stream requires a new login.</p>	<p>The MVR User can see who is applying for the streaming session.                  Example: User „Test1“.</p> <p><b>2. Accept or reject the streaming request.</b></p> <p>The MVR user can see which user account is present and can disconnect from the observer/client at any time.</p>
<p style="text-align: center;">  </p>	<p style="text-align: center;">  </p>