KRAMER

USER MANUAL

MODEL:

VIA Connect PRO

Collaboration Hub

(For Firmware Version 2.0)

P/N: 2900-300419 Rev 7

VIA CONNECT PRO QUICK START GUIDE

For Installer

This guide helps you install and use your product for the first time.
For more detailed information, go to **www.True-Collaboration.com** to download the latest manual or scan the QR code above.

STEP 1: Check What's in the Box

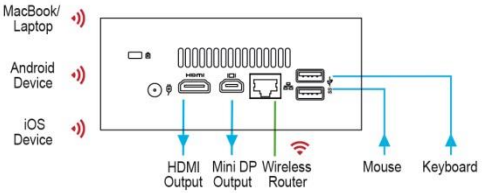
1. **VIA Connect PRO** Collaboration Device
2. Power supply (19V DC) with power cords
3. Quick Start Guide
4. Mini-DP to VGA

STEP 2: Install the VIA Connect PRO

Place the **VIA Connect PRO** on a table or mount in a rack with optional adapter RK-CONNECT PRO.

STEP 3: Inputs and Outputs at a Glance

Always switch off the power on each device before connecting it to your **VIA Connect PRO**.



Always use Kramer high-performance cables for connecting AV equipment to the **VIA Connect PRO**.

STEP 4: Connect the Unit

- Connect keyboard and mouse
- Connect your display
- Connect a Local Area Network (LAN) cable for connection to your network or use a router for connection to Wi-Fi
- Connect the power supply
- Turn on the device

STEP 5: Configure VIA Connect PRO

Open the **VIA Connect PRO** menu and click on Features, then on Settings.

Enter password: **supass**.

The Settings Menu tabs are:

- **LAN Settings –** Configure your network parameters and apply settings (DHCP is enabled by default)
- **System Controls –** Manage your display and audio settings, run control panel, select your language, etc.
- **WiFi (with USB to WiFi dongle connected) –** Setup your WiFi adapter as a secondary Access Point or attach your unit as a Client device to your main WiFi network

After settings are defined, click on reboot button to apply all settings. For more details, read the Settings section in the user manual.

VIA CONNECT PRO QUICK START GUIDE

For User

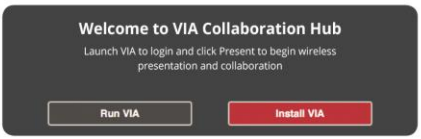
STEP 1: Connect Your Device to the Proper Network

Connect your device to the same network used by Kramer **VIA Connect PRO** in the specific meeting room (either Wi-Fi or LAN).

STEP 2: Run or Download the Application

MAC or PC

1. Navigate to the embedded Web page of **VIA Connect PRO** by entering the Room Name of the VIA into your computer's browser.
2. Select **Run VIA** to execute the application only (intended for guests who will be using the VIA once) or select **Install VIA** to download the VIA application on your computer (intended for regular users of the VIA).



iOS /Android/Windows Phone

1. Download and install the free VIA App from Apple's App Store or Google's Play Store or Window Store. Use the QR code above.

STEP 3: Login

Room Name: Copy the room name as appears in the wallpaper (IP Address).

Nickname: Enter a name for your device.

Code: Enter a 4-digit code as it appears in the wallpaper (if enabled).

Login: Press Login to join the meeting.

STEP 4: Main Menu

Click on **Present** to put your screen up front and on **Participants** to see who else is connected

STEP 5: Features

Wireless Connection
Connect wirelessly with your own device

Mobile Mirroring
Show any content from your iOS or Android device on the main display

Full HD Video Streaming
Share uninterrupted full HD wireless video streaming (up to 1080p60) and photos

Files
Drag and drop files to the Files folder to share instantly with other users

File Sharing
Share any size file with any number of participants

Enable Control
Give a participant control over a presenter's MAC® or PC laptop

Chat
Send an instant message to another participant

Whiteboard
Annotate, illustrate and edit shared documents: touch-screen compatible

Start Collaboration
Click to collaborate through a common display, using your own device. Multiple users can interact and control what's happening on the main display at the same time.

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1 Introduction

Welcome to VIA Connect PRO.

VIA Connect PRO is Kramer's unique, powerful wireless presentation and collaboration hub. It converts any display at any location into an interactive meeting point, and it works with a wide range of presentation devices from desktop and notebook computers to tablets and smartphones.

Each participant in a **VIA Connect PRO** session can quickly view, edit, annotate, comment, and share content with other participants. Participants can share their ideas through the primary screen, or break off with others into smaller groups during a meeting.

The **VIA Connect PRO** integrates seamlessly with any organization's current IT infrastructure, converting any projector or screen into a networked device that users can share and view on their current devices. Every local connection to **VIA Connect PRO** is wireless, free of dongles, cables, and other compatibility peripherals.

Key features of **VIA Connect PRO**:

- Login using conventional Wi-Fi or LAN connections, no dongle needed
- Provides true HD 1080p/60 video streaming
- Supports Windows laptops and MAC®, as well as iOS, Android mobile operating systems and Windows phone.
- MSI Compatible with all common Web browsers
- Up to 255 simultaneous users can be logged in
- Up to 4 participant screens can be displayed simultaneously
- Touchscreen compatibility with whiteboard and full annotation controls

1.1 Applications & Features

Present, share, chat, send and receive files, hold sidebar conversations, annotate, edit, and save copies of all your work, just as you would with a whiteboard or flip chart…except that you can do it all from your notebook computer, tablet, and smartphone.

Here are just a few of the things you can do with **VIA Connect PRO**:

- **Multiviewing**: Up to four different participant screens can be shown at the same time. **VIA Connect PRO** automatically sizes each screen to the maximum available resolution. Finished sharing? Tap Stop presenting to disconnect.
- **Chat and Share a file**: Need to ask a meeting participant a question? Click on their screen name and send them a text message with complete privacy. Users can also share files between themselves or the main presenter, all at the click of a mouse.
- **Control a participant's computer**: Need to access files or play back a presentation from a participant's PC? Simply click Enable Control on the PC, and its cursor can be controlled remotely to launch programs and play media.
- **Multimedia**: Sometimes it's just easier to explain your ideas with a video. Simply click the Multimedia tab on your device's screen and you can load and display JPEG images (all operating systems) and play MP4 videos. You can also display and share PDFs from any logged-in device. VIA Connect PRO features a 10Mbps maximum video bitrate for 30fps or 60fps videos and handles video files of up to 8GB.
- **Device mirroring**: Are you using an iOS device with no VIA application? Just mirror your device's screen to the main display by activating the Airplay service of your device. Are you an Android user? Use the VIA App to start mirroring your device and its content!

1.2 Controls and Connections

This section defines **VIA Connect PRO**.

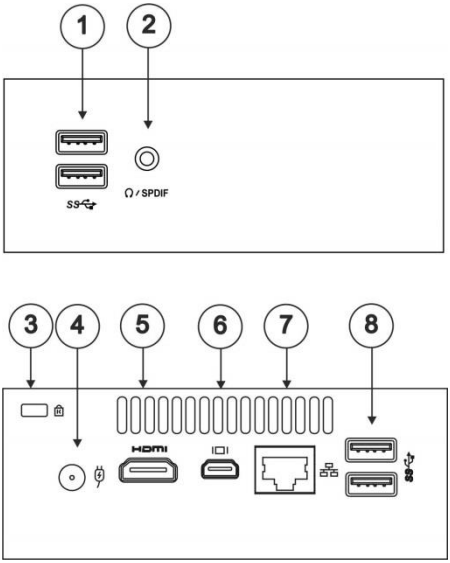


Figure 1: VIA Connect PRO Collaboration Hub

#	Feature	Function
1	*USB 3.0* Connectors	Connect to up to two USB devices
2	Ω/*SPDIF* 3.5mm Mini Jack	Connects to earphones or a speaker (digital embedded audio from HDMI and analog audio supported; S/PDIF not presently supported)
3	Lock Opening	Connects to a security locking cable
4	Power Connector	Connects to the 19V DC power supply
5	*HDMI* Connector	Connects to an HDMI acceptor
6	Mini DisplayPort Connector	Connects to a mini DisplayPort acceptor
7	*LAN* RJ-45 Connector	Connects to a wireless router
8	*USB 3.0* Connectors	Connect to up to two USB devices

2 Setting Up VIA Connect PRO

Always switch off the power to each device before connecting it to your **VIA Connect PRO**. After connecting **VIA Connect PRO**, connect its power and then switch on the power to each device.

To connect the **VIA Connect PRO** as illustrated in the example in Figure 2 you need:

- A VIA Connect PRO Wireless Collaboration Hub
- A display (projector, monitor, or screen).

  Note: A touchscreen display is best for annotation.
- A Local Area Network (LAN) cable for connection to your network. For wireless network connectivity, use a commercial wireless router

The following client devices are applicable with Kramer's **VIA** collaboration hub:

- A Windows 7/8/10® (32-bit/64-bit) computer
- A Macintosh® computer, using OSX 10.7.x or newer
- An iPad/iPhone® tablet/smartphone with the VIA app installed (iPad 2 or later, iOS 8 or later)

  Note: When using the Airplay service, no application is needed. However, we recommend using iOS9 or El Capitan OS X for a better experience.
- An Android® OS 4.4.x tablet/smartphone with the VIA app installed

  Note: For using the Android mirroring feature, a device equipped with Android 5.1 minimum is required.
- A Windows® phone with the VIA app installed.

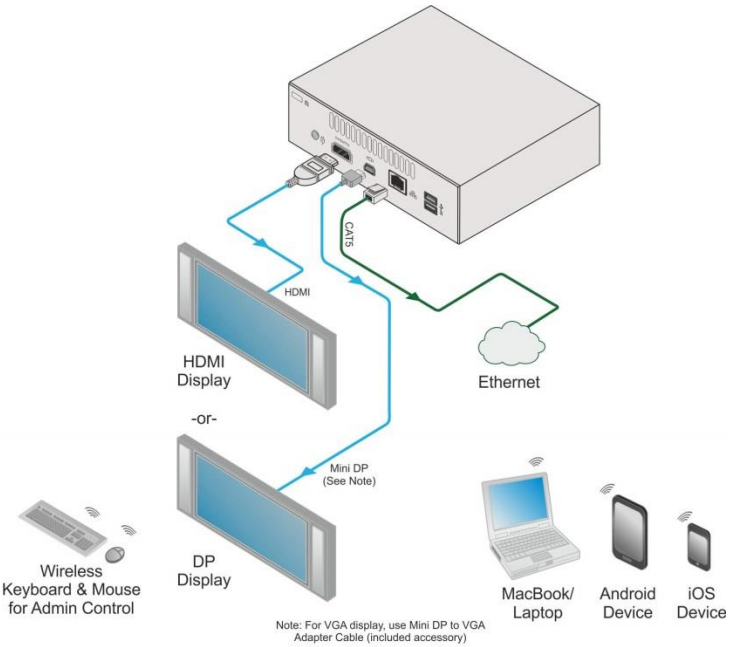


Figure 2: Connecting the VIA Connect PRO Collaboration Hub

2.1 Connecting VIA Connect PRO to a Display

VIA Connect PRO is equipped with HDMI and mini DP display output connectors.

- The HDMI connection can be used with any compatible projection or direct-view display, such as an LCD monitor. This connection carries embedded audio, and can also be routed and switched just like any other HDMI connection
- The mini DisplayPort connector connects to a DisplayPort display or to a VGA display by means of a mini DP to VGA adapter cable included in the packaging of VIA Connect Pro

VIA Connect PRO's internal video card reads the Extended Display Identification Data (EDID) for any connected display and sets the optimum display resolution and image refresh rate automatically through the HDMI and Mini DisplayPort jacks.

For full functionality, **VIA Connect PRO** must be connected to a local area network (LAN). You must assign an IP address to the **VIA Connect PRO**. However, your **VIA Connect PRO** is set on DHCP mode by default.

Note: Do not turn the device on before connecting the LAN port to the network.

Note: To allow participation in a collaborative session (send and receive content), connect the **VIA Connect PRO** hub and all participant devices (PCs/ MACs/ smartphones/tablets) to the same network (LAN - wired/wireless).

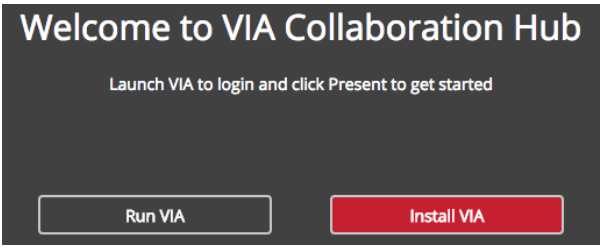
The **VIA Connect PRO** hub receives user's display/screen information and multimedia files from their device (laptop/tablet/smartphone) and sends them to the collaboration display (the display connected directly to **VIA Connect PRO** hub unit).

2.2 Downloading and Running VIA Connect PRO Software

All participants in a meeting must download and run either the Kramer **VIA** executable file (PC, Mac) or the appropriate Android/iOS or Windows Phone app.

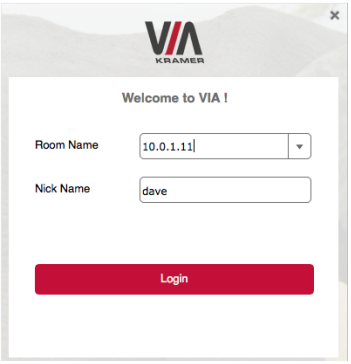
To access the PC and Mac executable files:

- Open your Web browser and enter the IP address for your VIA Connect PRO unit
- Your Web browser recognizes your OS (MAC/Windows) and directs you to the correct client software
- Choose from following two options:



- To run the VIA app virtually (without installing it on your computer), select "Click to Run VIA". Once downloaded, locate the file on your computer (under "Downloads") and click to launch it. The VIA Connect PRO login screen appears
- To permanently install the VIA app, select "Click to Install VIA". It downloads an.exe file to your computer and asks if you want to run this file. Click Yes and follow the Setup instructions. The VIA app is saved to the KRAMER

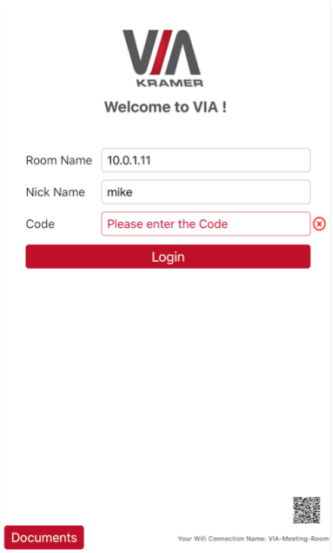
folder on your C: drive. It creates a shortcut on the desktop for easy access.



For tablets and smartphones, the Kramer **VIA** app is found in the App Store (iOS) and Google Play (Android) and Windows Store (Windows Phone).

Alternatively, you can open your Web browser on your mobile device and enter the IP address for your VIA Connect PRO unit;

Download the app to your tablet/phone and install. When the app is run, the following screen appears:



2.3 Using an.msi File

IT managers can use the VIA.msi file for easy deployment and installation of the VIA application on the user's clients.

To find the.msi file:

1. Browse your unit for (make sure you are on the same network): **http://<ip of box>/files/VIAApp.msi.**
2. Replace "<ip of box>" by the valid Room Name.
3. Save the file on your PC.

2.4 Logging In to VIA Connect PRO

Windows and Mac OS

- Choose a username (nickname) for your device (it can be any mix of letters and numbers) then enter it on the login screen
- Next, enter the room code, seen on the lower right part of the screen. This lets you access **VIA Connect PRO**

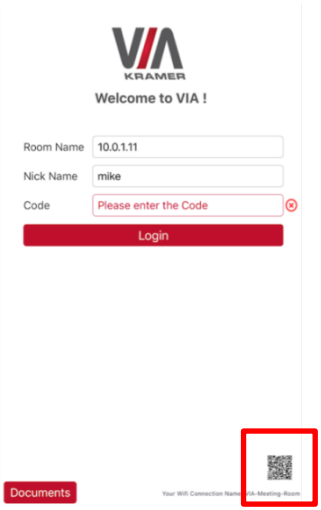
iOS, Android and Windows Phone

- First, enter the IP address for the **VIA Connect PRO.** This is found on the main display screen in the lower left
- Next, choose a username (nickname) for your device (it can be any mix of letters and numbers) then enter it on the login screen of your device
- Finally, enter the room code as seen on the lower right part of the screen. This lets you access **VIA Connect PRO.** Now, you're ready to go!

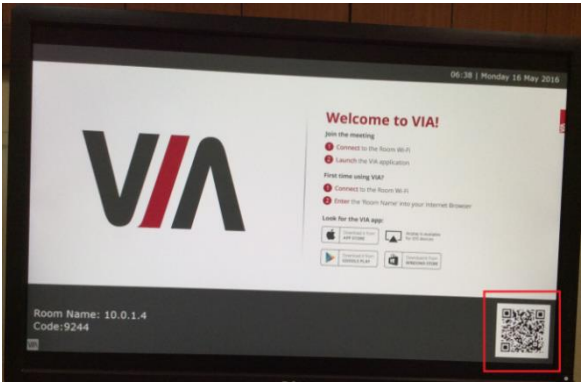
2.5 Logging-In to VIA connect PRO by QR Code Scanning

iOS, Android & Windows Phone

1. Launch the application on your mobile device and click the QR code icon (on the lower right corner).



2. Put your mobile device in front of the VIA main display QR code (found on the VIA main display screen in the lower right corner).

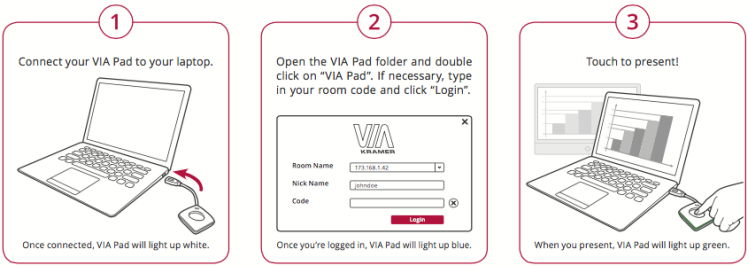


3. You are automatically logged in to **VIA Connect PRO**.

2.6 Logging-In to VIA Connect PRO Using a VIA Pad

Windows and Mac OS

- Press once: Presents your screen on the main display (when you start, the LED banner on the device is blue. After you stop presenting, it changes to green)



- Pressing twice: Freezes your screen (the banner on the device changes from green to flashing green). To unfreeze and resume, press twice again.
- Pressing once again: Stops presenting.
- Long press to display on the full screen when you are not the only one who is already presenting.

2.7 Logging-In to VIA Connect PRO Using a VIA NFC Tag for Android

To write an NFC tag:

- Install the VIA NFC Writer on an Android device. Download the.apk file freely from the Kramer website: www.kramerav.com/support/download.asp?f=50898&pname=via%20nfc%20writer
- Open VIA NFC Writer.
  A page similar to a VIA page opens
- Enter the room name and click **Write tag.**
- When prompted, touch the Android device on the writable tag.
  Another prompt confirms that the tag has been successfully written.

To use the NFC tag:

- Enable the NFC feature on an Android device.
- Touch the Android device on the tag:
  - IF VIA is installed – The VIA application launches and automatically logs into VIA Connect PRO. The room code is bypassed.
  - IF VIA is in the background – Same as above.
  - IF VIA is not installed – The Google play store page is launched with a VIA application download option. Install the VIA Android application.
  - If VIA installed and connected – A prompt asks the user to logout before touching the tag with an Android device.

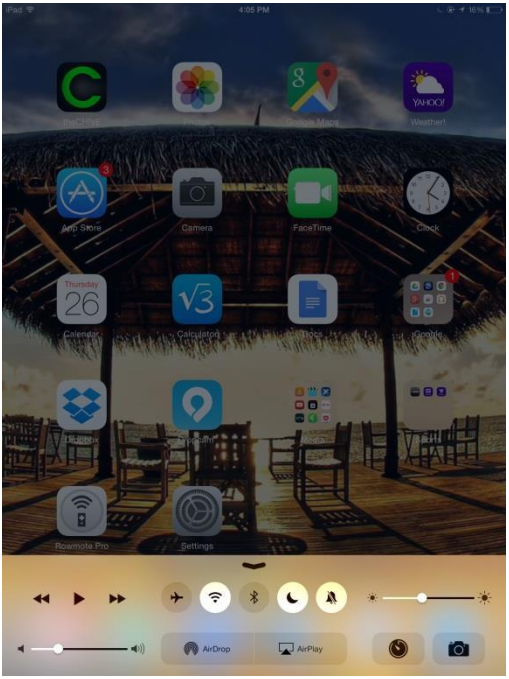
2.8 Using iOS/OS X / Android Mirroring to Share your Screen

All participants in a meeting using an Apple device can mirror their screen by using the Airplay service. No application is required to activate this mode. However, the VIA Connect PRO unit must run firmware version 1.9 or later and iOS mirroring feature must be enabled (see the “settings” section for more details).

2.8.1 Mirroring From your iOS Device (iPhone or iPad/Mini iPad)

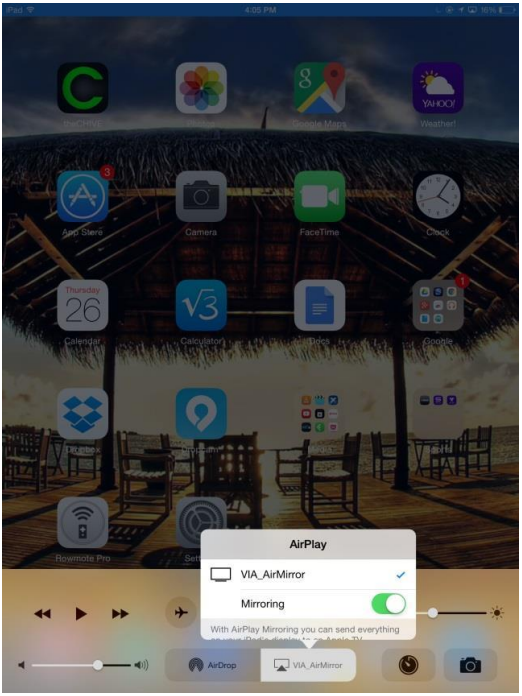
Check that your device is running iOS8 version as a minimum requirement to support this feature. iOS9 is recommended.

- Connect your Apple device to the network where the VIA Connect PRO resides.
- Swipe up from the bottom of the iPad or iPhone to reveal the Control Center.



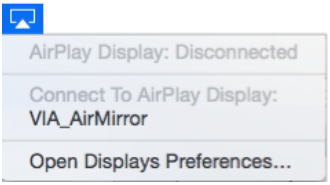
- Click AirPlay and choose the VIA Connect PRO's AirPlay device name. By default the VIA's AirPlay device is named VIA_AirMirror_XXXX, where XXXX is a random combination of letters and numbers.
- To stop mirroring, disconnect the device properly by as follows:
  Swipe up from the bottom and swipe the toggle button to disconnect mirroring then tap to select "iPhone/iPad" accordingly.

Note: If the room code is enabled on the VIA Connect PRO, you are prompted to enter the same 4-digit security code when attempting to mirror your iOS device. This code appears on the main screen of the VIA Connect PRO.



2.8.2 Mirroring MacBooks and Apple Computers

- Check that your Mac is running OS X 10.10 version as a minimum requirement to support this feature (Yosemite). El Capitan is recommended.
- Connect your Apple device to the network where the VIA Connect PRO resides.
- Click the AirPlay menu on the Apple Menu Bar. This is located in the top right corner of the screen near the clock.

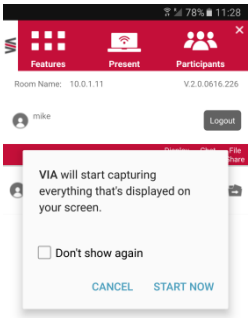


- Choose the VIA Connect PRO's AirPlay device name. By default the VIA's AirPlay device is named VIA_AirMirror_XXXX, where XXXX is a random combination of letters and numbers.

Note: If the Room Code is enabled on the VIA Connect PRO, you are prompted to enter the same 4-digit security code when attempting to mirror you iOS device. This code appears on the main screen of the VIA Connect PRO.

2.8.3 Mirroring Android Devices

1. Your device must support Android 5.1 version as a minimum.
2. Make sure the VIA application is installed on your device.
3. Connect your Android device to the network where **VIA Connect PRO** resides.
4. Log in to the application by entering the Room Name and Nickname fields and room code if enabled.



5. Click on Present. The device shows this message: “VIA will start capturing everything that’s displayed on your screen.” Accept by clicking on “START NOW”.
6. You can now minimize the VIA app by clicking on the “Home” button of your device. Your screen is mirrored on the main display.

7. To stop sharing your screen, re-open the VIA application and click on Stop Presenting.

Note: Android mirroring does not support audio. Audio is heard from your device and not from the output of the VIA device.

3 Defining VIA Connect PRO Functions

VIA Connect PRO presents two types of screens depending whether it is being used by the Admin or by a User. The following screen shots illustrate both types.

Figure 3 shows the **VIA Connect PRO** main Admin screen and its functions:

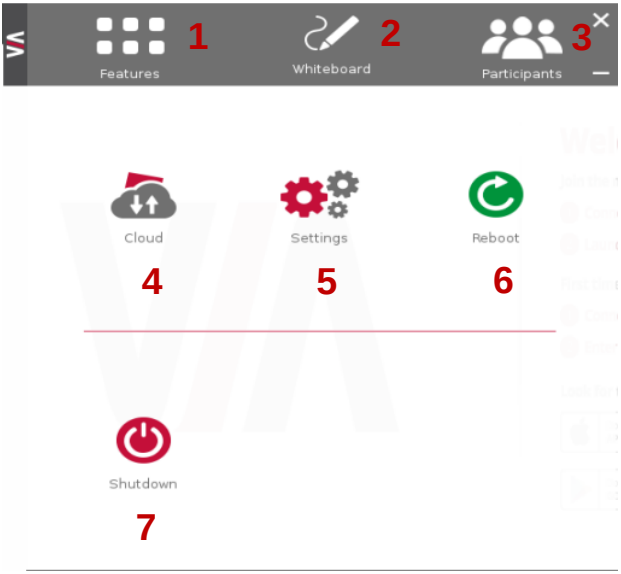


Figure 3: VIA Connect PRO Admin Screen and Features

Item	Icon	Action
1	Features	Allows user to see and access all available features of **VIA Connect PRO**
2	Whiteboard	Opens a canvas to annotate, draw, and update document collaboratively over a live stream
3	Participants	Provides a list of all participants in the session
4	Cloud	Drag and drop files to the cloud to share instantly with everyone in the session
5	Settings	Performs settings on the LAN, configurations related to room code, system controls, wallpaper and activation center
6	Reboot	Reboots **VIA Connect PRO** System
7	Shutdown	Shuts down **VIA Connect PRO** system

Figure 4 shows the **VIA Connect PRO** main User screen and its functions:

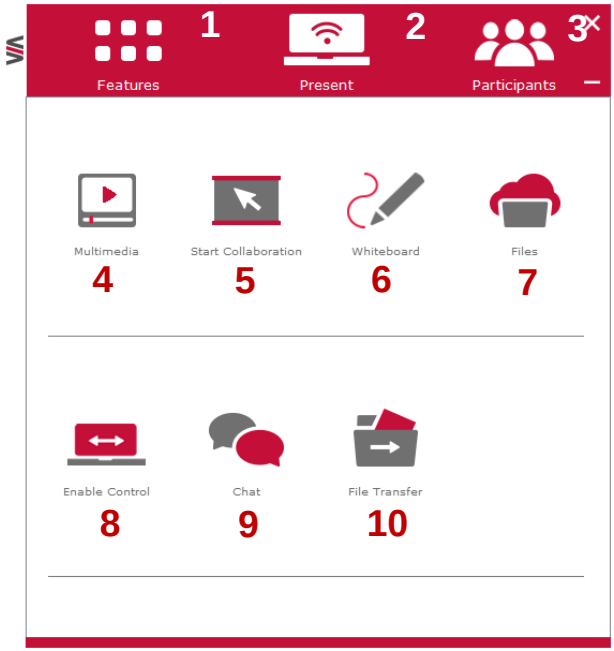


Figure 4: VIA Connect PRO Main User Screen and Features

Item	Icon	Action
1	Features	Allows user to see and access all available features of **VIA Connect PRO**
2	Present / Stop Presenting	Allows the user to show his device's screen on main display, or to step out
3	Participants	Provides a list of all participants in the session
4	Multimedia	Supports video formats: avi, vob, mp4, mov, mp*x* (ex. mpg). Shares smooth full-motion video (up to 1080p/60)and photos
5	Start collaboration	Click to collaborate through a common display using your own device. Multiple users can interact and control the main display at the same time
6	Whiteboard	Click to open a whiteboard at the main screen. It activates "Start Collaboration" automatically and allows the user to interact and control the main display
7	Files	Save your annotated documents to the Cloud and share instantly with everyone in the session
8	Enable Control	Gives participants control over the presenters Mac or PC laptop
9	Chat	Allows sending chat messages among available participants during that session
10	File Transfer	Shares files between the available participants during the session

4 Using VIA Connect PRO

VIA Connect PRO is a powerful and versatile collaboration hub that gives participants a wide selection of presentation tools. In this section, we'll look at each of those tools and discuss briefly how it works.

4.1 VIA Connect PRO Main Menu

This section refers to the user's experience. Once you have logged in to VIA, the Parent Dashboard displays on your home-screen. This Parent Dashboard provides basic navigation through VIA. The Parent Dashboard displays your main navigation icons, "Features," "Present" and "Participants." Each one of these three icons represents the core functionality of VIA. The section below identifies and defines each icon.

- Clicking the Features tab on the main menu allows the user to see and access all available functions of **VIA Connect PRO.**
- Clicking the Present tab on the main menu displays your PC/device screen on the main screen. After selecting the icon, the "Present" button will automatically change its displayed name to "Stop-Presenting." Once you have finished sharing/displaying your content, you select "Stop Presenting" to remove your desired content from the display.
- Clicking the Participant List tab reveals a list of all participants in the session. It also opens the capability for "Chat" and "File-Sharing" functionality with the other participants.

Under Participants, the following icons are used:

Item	Icon	Meaning
Display Status		Start a presentation at a display
		The user is currently presenting
Chat Status		Start a chat session with any available participants
		The participant is currently chatting with you. Click to open the chat session
File Transfer		Start a file transfer with another participant
		File transfer is already active with that participant
Enable Control		Take control of any user while the user is displaying
		Admin has the control of that user

4.2 Enabling Control

This function allows the admin to take control of a participant's PC (Windows or Mac OS). (In our example, Figure 5, *user Dave* has stepped in and the Admin has taken control of *Dave*):

The admin can work on Dave's system as he has taken control. (Admin can play media or work on a document or presentation file collaboratively with *Dave*).

Any other participant who wants to take control or collaborate with *Dave's* system can click on the Start Collaboration icon and drag his laptop mouse to the top and off their local screen. That cursor now moves to the **VIA Connect PRO** unit and appears on the main display of Dave. Buttons are shown in the picture below:

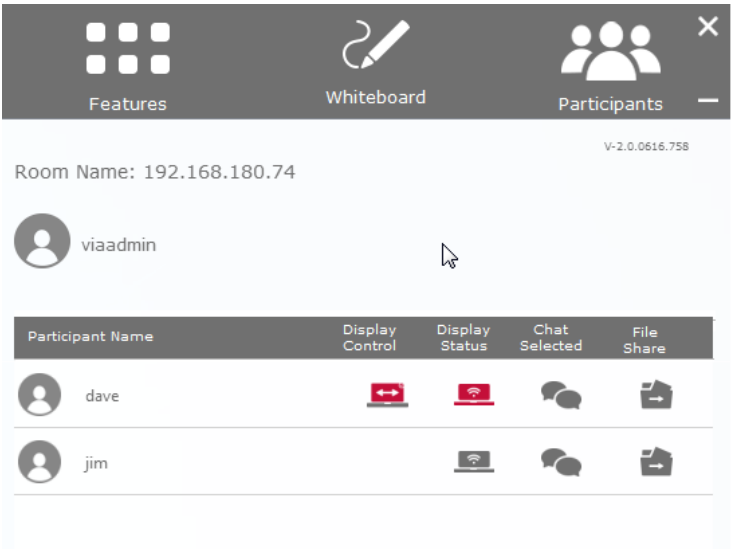


Figure 5: Enable Control

4.3 Chatting with Participants

The admin or user can start a chat session to exchange text messages between users.

To initiate a chat session:

- Go to the participant list and click the chat icon for the desired participant. The chat window opens (Figure 6) and you can chat with selected participant:

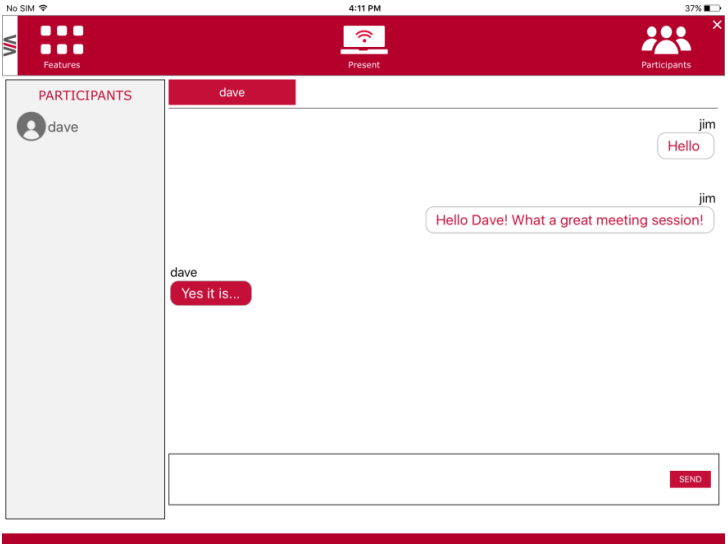


Figure 6: Chat Window

In the chat window, the participant's name is at the left side of the window and your chat messages are on the right side.

The user can check for active chat sessions by going to *Features* > *Chat*

4.4 File Transfer

VIA Connect PRO can transfer files between PC/Mac/Mobile logged in users.

To share a file:

- Go to the participant list and click on the file share icon for the desired participant with whom you wish to share a file.
- In the cloud directory, select the desired file on your device. Then, click Share

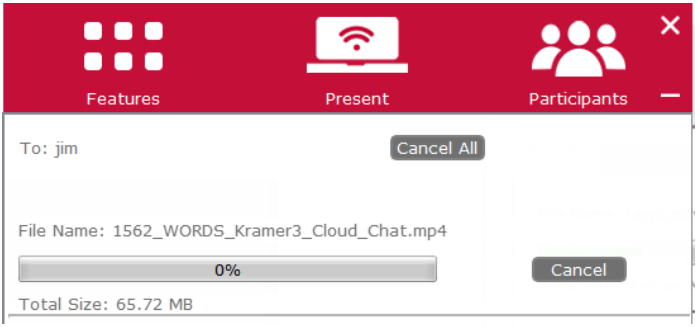


Figure 7: Admin File Sharing

The target participant needs to select a location to save the file and start the file transfer process. Once completed, the file is saved on that participant's system.

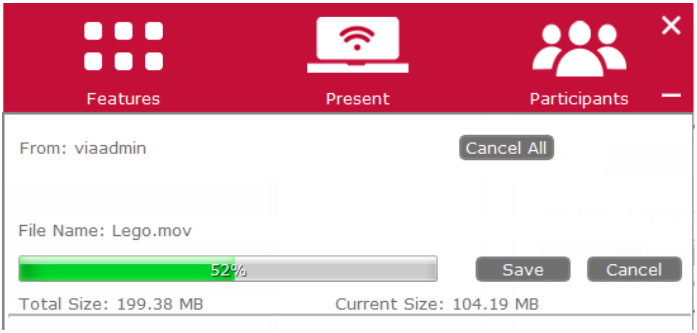


Figure 8: User File Sharing

When completed, the file is saved at receiver's system.

You can check or cancel currently sharing file from *Features* > *File Transfer.*

4.5 Multimedia

This section explains the various forms of handling multimedia.

4.5.1 Video Player

VIA offers users the ability to play video at a full HD 1080p/60fps rate. Full 1080p/60fps video is obtained by streaming the video from the VIA Client application to the VIA Gateway. The video file never leaves the user's client device and is not transferred to VIA.

Below are the two ways you can play video from VIA:

- File Searching Media Files
  - Select "Multimedia" from your features menu on the parent dashboard.
  - Click Add Media in the lower left corner.
  - Select a video you would like to add and click "Open".
  - The file is then displayed within the "My Media" section.
  - Double-click the media file and the video begins playing.
- Drag/Drop Media directly to VIA
  - On the left-hand side of the VIA parent dashboard you see a small VIA logo.
  - Select the file you want to play from any folder on your device.
  - Drag the file to the logo only. The video does not play if you try to drag the file to the left, right, below or above the logo.
  - Once released, the video automatically starts playing.

Note: When showing videos through VIA, the video is not being transferred from your device to the VIA unit. All videos are being encoded directly on your BYOD device through the VIA software and then streamed from your device to the VIA unit. The VIA unit then decodes the streamed file for playback.

Note: Without using the VIA software, media files can be played from your device using native media players you have installed such as QuickTime and/or Windows Media Player. However, if you choose this method and do not use VIA for video playback, your video is only mirrored to the display. Using this method, you may experience lower frame rates, inconsistent playback and increased latency, depending on your laptop system performances.

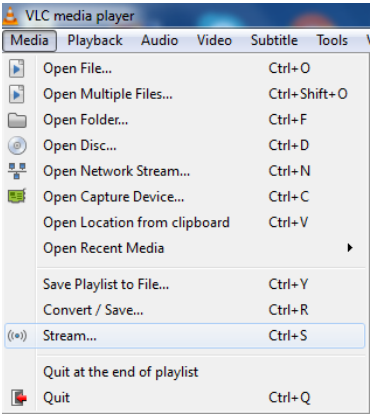
4.5.2 RTSP Streaming Through VLC

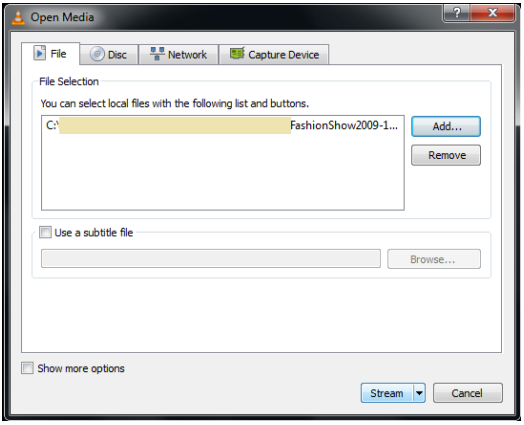
The Real Time Streaming Protocol (RTSP) is a network control protocol designed for use in entertainment and communications systems to control streaming media servers. The protocol establishes and controls media sessions between end points. Clients of media servers issue commands like play and pause, to facilitate real-time control of playback of media files from the server.

VIA Connect PRO supports RTSP. A media being played locally on a computer can be streamed on a **VIA Connect PRO** unit, provided the computer and **VIA Connect PRO** are on connected networks.

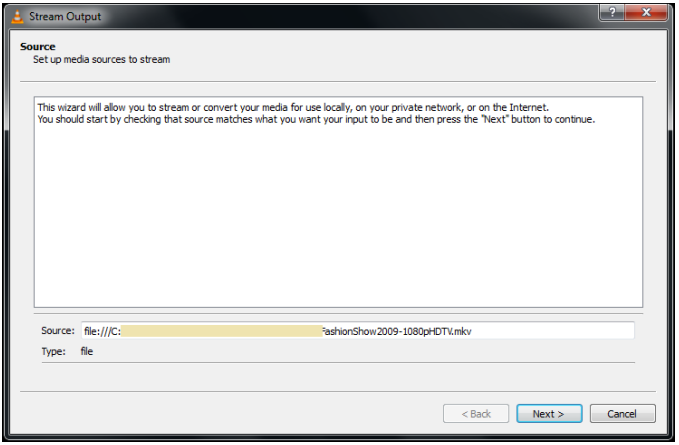
For RTSP Streaming using VLC:

1. Open VLC.
2. Click **Media > Stream**.
3. Click **Add** and select a file to stream and click **Stream**.



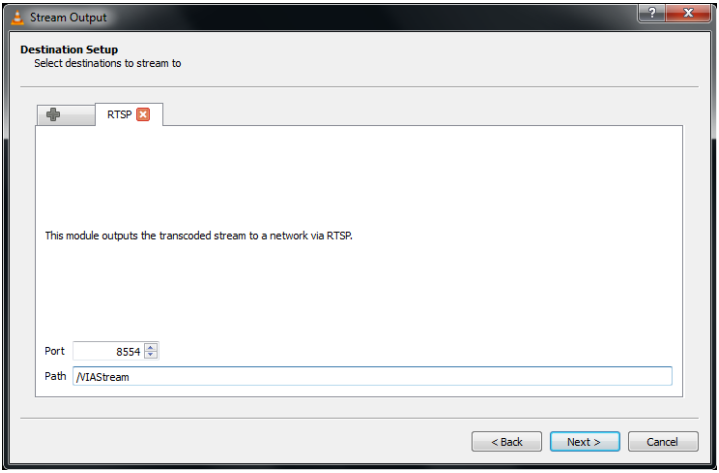


4. Click **Next** on the next screen.

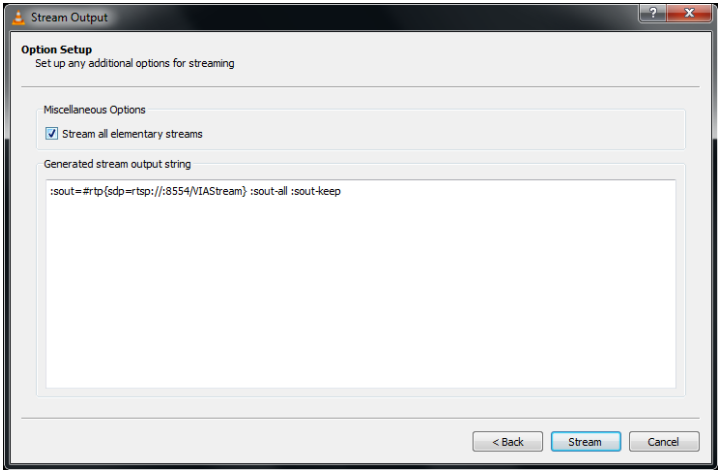


5. Choose RTSP from the **New Destination** drop down and click **Add**.

6. Enter a short name to be used as **Path**, uncheck **Activate Transcoding** and click **Next**.



7.



8. Check Stream all elementary streams and click Stream.

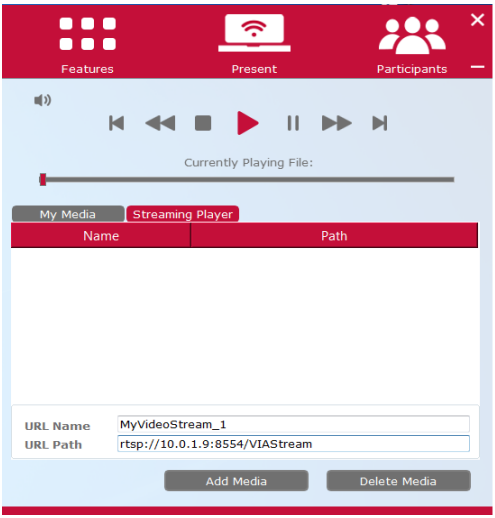
8. Open **VIA Connect PRO** client and click **Features > Multimedia > Streaming Player**.

9. Type a name as the URL name.

10. The URL takes the path from:
    rtsp://<local computer IP address>:8554/<name mentioned in step 6>

11. Click **Add Media**.

12. Select RTSP stream and click the play button to stream this media on **VIA Connect PRO**.



4.5.3 RTP Streaming Through VLC

The Real-time Transport Protocol (RTP) is a network protocol for delivering audio and video over IP networks. RTP is used extensively in communication and entertainment systems that involve streaming media, such as telephony, video teleconference applications, television services and Web-based push-to-talk features.

VIA Connect PRO supports RTP. A media can stream on a **VIA Connect PRO** unit, provided the computer and VIA Connect PRO are on connected networks.

To stream RTP using VLC:

1. Open VLC.
2. Click **Media > Stream.**
3. Click **Add** and select a file to stream and click **Stream.**
4. Click **Next** on the next screen.
5. Choose **RTP/MPEG Transport Stream** from the **New Destination** drop down and click **Add.**
6. Enter **VIA Connect PRO** unit's IP address and click **Stream.**
7. Open **VIA Connect PRO** client and click **Features > Multimedia > Streaming Player.**
8. Type a name as the URL name.
9. The URL path takes the form:
   Rtp://<VIA Connect PRO IP address>:5004
10. Click **Add Media**.
11. Select the RTSP stream and click the play button to stream this media on **VIA Connect PRO**.

Note: if a URL is already resent in the streaming list above, VIA client generates a warning for both modes – RTP and RTSP.

4.6 VIA Cloud (Files)

The VIA “Cloud,” or VIA hard drive, is *internal* memory storage only. Selecting Cloud launches a standard file management system, enabling you to select files to share with other participants. **VIA Connect PRO** has 32 Gb of internal memory.

The Cloud on the client user interface is the feature used to send a file from your computer to all participants. To access cloud data:

- Click on Features in the Admin main menu and then click on the cloud icon to go to the Cloud directory where all the users’ annotated files were saved.

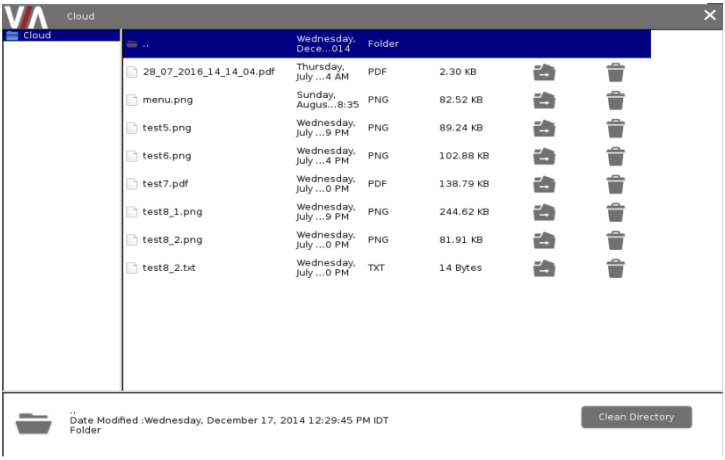


Figure 9: Saved Files on the Cloud

- To delete **one single file** from the cloud directory, click on the **Trash** icon A warning note appears that this is a permanent delete action
- To delete **all files** from the cloud directory, click on **Clean Directory** A warning note appears that this is a permanent delete action

4.7 Whiteboard Collaboration

The whiteboard function, used by the admin, creates a canvas on the **VIA Connect PRO** hub. With whiteboard, the admin can:

- Access a wide range of drawing and annotating tools
- Insert any kind of images

To open Whiteboard by the admin:

- Go to the main menu and click on the Whiteboard icon. This starts a whiteboard session on **VIA Connect PRO.**

Users can collaborate on a shared document using their own device.
To comment on content shown on main display user needs to:

- Click on Start Collaboration or Whiteboard icon
- Drag the cursor to the main display
- Start annotate by using whiteboard tools

Multiple users can interact, annotate and control the main display at the same time.

4.7.1 Whiteboard Functions

Figure 10: Whiteboard Toolbar

Item	Icon	Action
1	Pen/Color/thickness	Enables drawing on the whiteboard, selecting color and thickness of the pen
2	Eraser/Erase All	Erases your annotations / the entire whiteboard
3	Capture Area	The mouse pointer turns into a plus sign. Click the upper left corner of the area you want to capture and drag along the screen to the limit of the capture. The selected area is displayed in gray. The area is then included in the current or new page as an object
4	Arrow	Selects any object or image
5	Text	Inserts text on your whiteboard page
6	Font	Changes the text font of your whiteboard page
7	Create Notes	Creates comments or remarks about your annotation at whiteboard page
8	Keyboard	Opens a virtual keyboard at whiteboard to insert text
9	New Page	Creates a new page or to add a new page
10	Previous Page	Moves to previous page (when multiple pages added)
11	Current Page	Moves to current page (when multiple pages added)
12	Next Page	Moves to next page (when multiple pages added)
13	Save	Saves all your activities either as PDF or as JPEG format
14	Show desktop	Displays your desktop with all running applications. The user can also annotate at the running application using the desktop stylus
15	Close	Closes the Whiteboard screen

Note: Whiteboard toolbar can be moved to bottom (and back to top) of the display by clicking on the small arrows visible at right side of the toolbar

4.7.2 Show Desktop

Show Desktop allows you to hide the whiteboard and to navigate freely on your desktop. A toolbar is available for making annotations on your desktop and capturing an object. For example, capture an area of the screen and add it as an object in your current page.

Icon	Name	Action
	Pencil	Draws on the whiteboard (You can change the color and the thickness of your pen by selecting the options available from the bottom white triangle)
	Eraser	Erases precisely what you have drawn on the whiteboard (You can change the thickness of your eraser by selecting the options available from the bottom white triangle)
	Pointer	Selects any object you want to move
	Window selection	Directly captures a window and all of its content
	Capture Area Tool	The mouse pointer turns into plus sign. Click and drag over the desired area
	Save	Saves your activity in either.jpg or.pdf format
	Show/Hide	Show/Hide annotations
	Whiteboard	Press this icon to immediately switch to your full screen whiteboard page
	Exit	Exits the whiteboard

4.8 Using the VIA Connect PRO Settings Menu

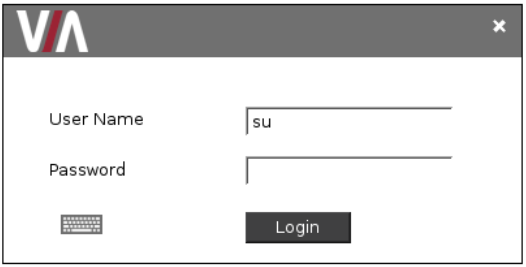
The Settings menu is where you configure your **VIA Connect PRO** unit. More settings are available from the web interface management console.

The Settings menu tabs include:

- LAN Settings – configures network parameters
- System Controls – manages your display and audio settings and selects the preferred language

To open the settings page use keyboard and mouse connected to **VIA Connect PRO** unit:

- Click on Features to expand
- Click on Settings. It requests user name and password for the **VIA** Admin user
- Enter user name "**su**" and the password "**supass**"



The Settings screen opens:

Figure 11: Settings Screen

4.8.1 LAN Settings

Use LAN settings to change the IP address, DNS and default gateway of VIA Connect PRO. Alternatively, the DHCP option is set as default on your unit to get an automatic IP address, for easy Plug and Play setup when connecting your Connect PRO to the network.

When changing these settings, make sure they are correct. Incorrect values can cause a loss of communication.

To change the IP address:

- Click on LAN Settings
- Select IP configuration -> Static

- Enter as required the IP address, subnet mask, default gateway, DNS server

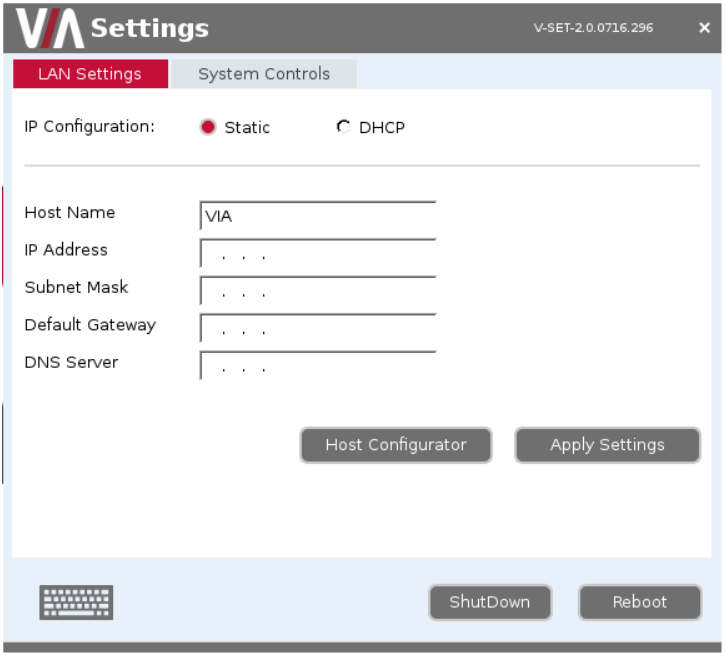


Figure 12: LAN Settings Screen

- When finished, click on Apply Settings
- Click OK at the Confirmation Message
- Click on Reboot to restart the system with the new settings

4.8.2 System Control Settings

System controls access the control panel, audio settings, display settings, task manager, system health and log files of the **VIA Connect PRO** unit. The log folder is only available if system logging is activated from the configurations tab of settings.

Figure 13: System Control Screen

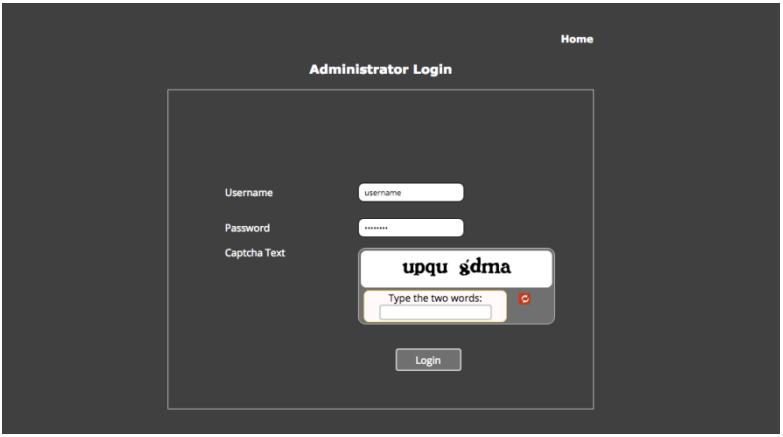
The **VIA Connect PRO** unit is pre-activated by Kramer.

4.9 Managing Settings from the VIA Web Management Interface

To manage settings using the Web browser:

- Open the Web browser and enter the IP address for your **VIA Connect PRO** unit
- Enter user name “su” and password “supass”.

- Insert the exact presented text on Captcha field to Captcha text field and press the “Login” button



- **Note**: You can change the presented text by pressing the ‘Refresh’ button on the left. Click on VIA Management tab to access the Settings menu.

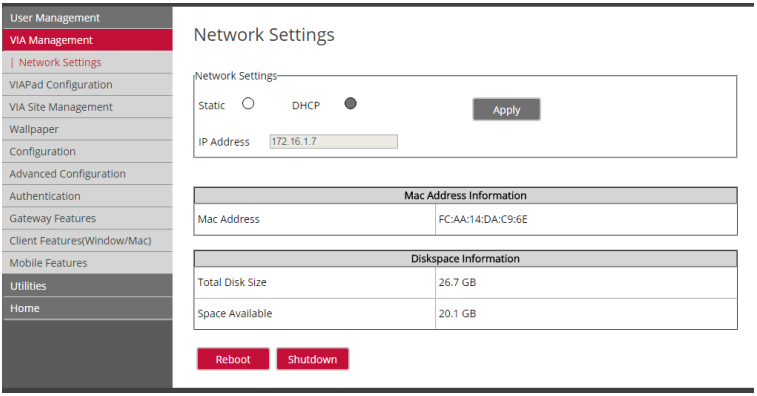
Note: Any additional user can be created and get “Web administrator” credentials.

4.9.1 Network Settings

Use LAN settings to change the IP address, DNS and default gateway of **VIA Connect PRO**. Apply Settings after finishing.

Alternatively, DHCP option is set as default on your unit to get an automatic IP address, for easy Plug and Play setup when connecting your Connect PRO to the network.

Information about the Disk Space in use can be found here, as well as the MAC address of the **VIA Connect PRO** device.



4.9.2 VIA Pad Configuration

For entities using VIA Pad, the first required step is to configure VIA Connect PRO to allow it to pair the VIA Pad devices.

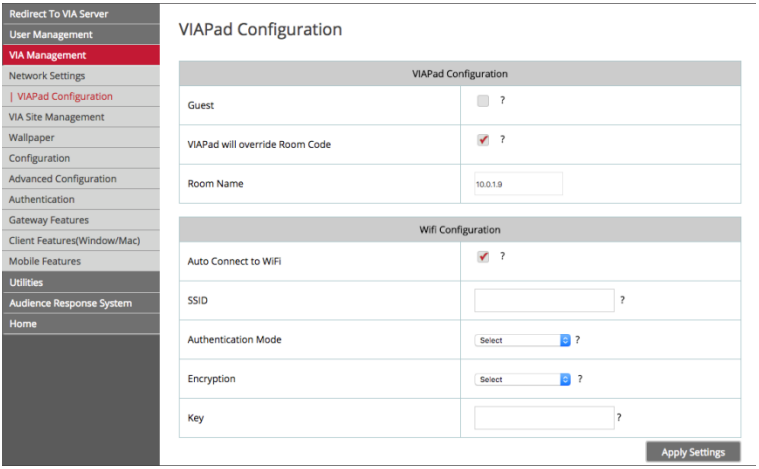
VIA Pad Configuration

- **Guest mode:** Enable this mode in case you want the VIA Pad to act as a simple “Present / Stop Presenting” touch device. No client application is shown on the user’s display.
- **VIA Pad overrides Room Code:** Enable this feature if you want the VIA Pad to bypass the need to type in the Room Code authentication.
- **Room Name:** Is automatically populated; it reflects the name of VIA Connect PRO.

WiFi Configuration

- **Auto Connect to WiFi:** Enable this feature if you want the VIA Pad to connect automatically to the WiFi network of the Meeting Room. You are prompted for the following details:
- SSID: Enter the name of the WiFi network – Please make sure that you write it EXACTLY as defined. (It is case sensitive!)
- Authentication Mode: Select the security used by your WiFi router among the pre-set options (WEP Open/ WEP Shared/ WPA Personal/ WPA2 Personal.
- Encryption: Select the type of encryption key used by your router.

- Key: Type the password required to join your network.
- Apply Settings to save the configuration.



- Pair your VIA Pad devices as shown below:

4.9.3 Using VIA Site Management

VIA Site Management Server (VSM Server) is an optional software application (subject to a separate pricing) that allows an administrator to monitor and make changes to all connected **VIA Connect PRO** or Connect gateways. It is a Web-based interface that allows the administrator to:

- Add or modify an existing VIA Gateway (**VIA Collage/VIA Connect PRO**)
- Push various settings like configuration, gateway features, client features, and so on to Collage/Connect units
- Update Collage/Connect units from the central server when the updates

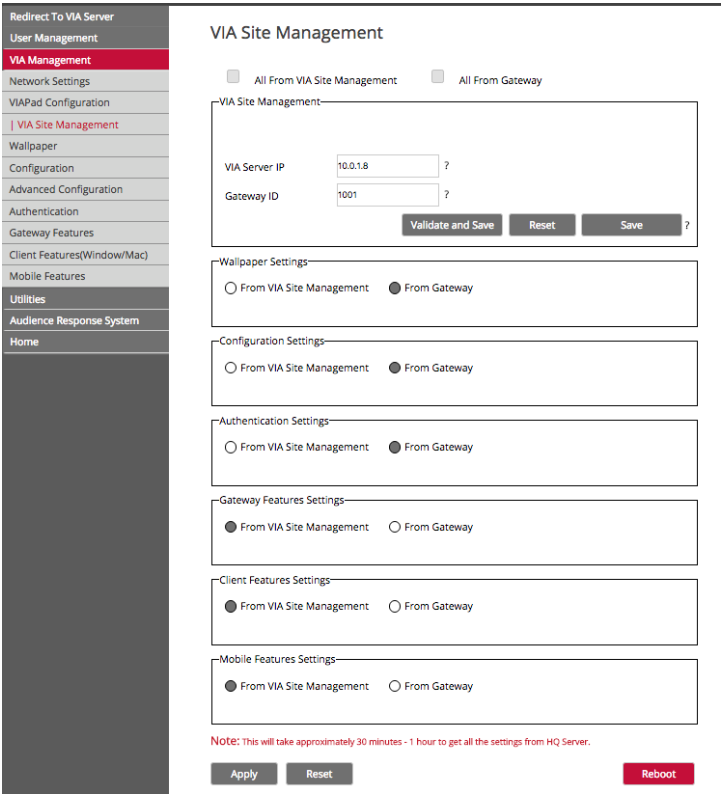
become available

- Manage the following statuses for all Collage/Connect units attached to the VSMS:
  - CPU usage
  - HDD usage
  - Off/on status
  - Configuration and download status
  - Version status

The VSMS can automatically provide individual configuration to added gateways or the settings can be configured locally.

Some changes must be made to the gateway before it can be managed from a VIA Site Management Server.

- Type the VIA Site Management Server IP
- Type a Gateway ID (a gateway ID can be a random number, as long as it is unique. It helps identify the VIA Collage/Campus or Connect unit in question.)
- Click Validate and Save for changes to take effect (VIA device can connect to the VSM while validating)
- Click Save for changes to be saved with no validation in front of the VSM (Note: since no validation is made immediately, any error entered at this stage –like duplication of ID- must be corrected manually at a later stage)
- Choose the settings “From VIA Site Management” to download the setting from the VIA Site Management server or choose “From Gateway” to keep the local settings.
- Click **Reboot** to restart the unit



Contact your regional sales representative for more details about this solution.

4.9.4 Wallpaper

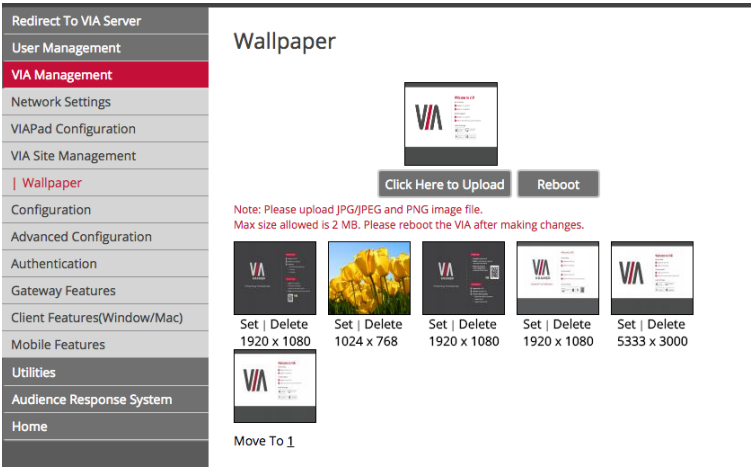
This feature allows any corporation or institution to change the default screen to match their branding and in-room equipment usage instructions.

To change the wallpaper:

- Click on Upload Wallpaper
- Select Wallpaper (must be an image file – jpeg, png, bmp) from your system

All previously uploaded wallpapers are saved and shown as below. To select one of them, click on "**Set**". To delete one of them, click "**Delete**".

- Then click on **Reboot**
  The background image on **VIA Connect PRO** changes after rebooting



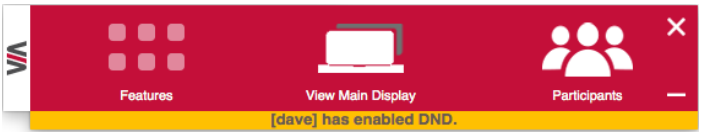
4.9.5 Configuration

Configuration settings are:

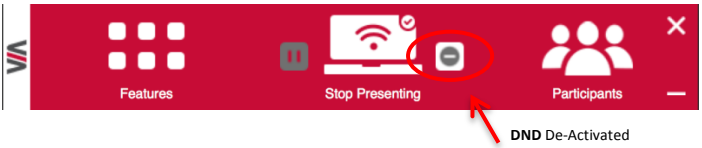
- **Activate System Log** – Activates the logging of all system activity either by the client or the gateway to aid diagnosing a problem with **VIA Connect PRO**
- **Activate Energy Saver Mode** – To allow your unit to enter into sleep mode after 15 minutes of inactivity
- **Disable Always On Top - VIA Minimised icon on Gateway** - Hides the VIA menu icon from the right corner of the main display:

- **Do Not Disturb** – This feature is aimed to easily enable a Do Not Disturb mode that will allow a user to present to the main display without any interruptions. Clicking the DND button will prevent ALL interruptions.
  The user that clicked DND has full access to all features:

The other users can see a modified user interface that is only allows access to the Participants' List. All other icons are grayed out:

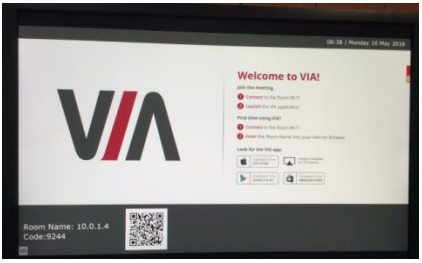


The User who enabled DND must disable DND to allow other participants to regain full functionality.

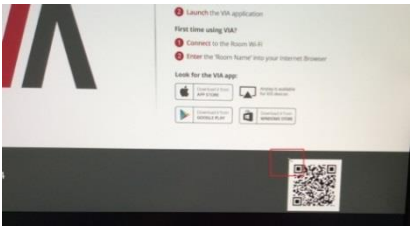


QR Code Scanning

- Check "Enable QR code" and "Bypass room code" (if required) and click the "Reboot" button.
- Select "Keep QR code always on top" to allow the QR to be always visible on top of any content presented on main display.
- You can select "Print QR Code" if you need to get a hard copy of it for displaying it in the room.
- To relocate the QR code on the VIA main display, click and drag it with the mouse and drop it anywhere on the screen.



To resize QR code, click and drag it from the code frame to any desired size:



Room Code, Room Name Settings

- **Show Room Name on Wallpaper**: This feature displays the Room Name (a standard IP address) on the **VIA Connect PRO** home screen. By default, it displays the current IP address, but you can change it to a Domain Name System (DNS) name if local DNS services are supported by the network. To change the Room Name, enter the new address or DNS name, then click on Apply and reboot **VIA Connect PRO**. To login any device to the **VIA Connect PRO** client, you must enter the same Room Name in the location field on your device
- **Activate Room Code**: The Room Code is a security overlay feature that generates and updates a four digit code. It appears on the lower right of the **VIA Connect PRO** home page. When activated, this code must be entered by any device before logging into **VIA Connect PRO.** You can also select the color to apply to this Code on main screen**.**
- **Always show on Wallpaper:** If the room code is activated, it always shows on the wallpaper below the room name, otherwise the room code only shows when logging into any client. Set here also the refresh time of the Room Code (30 minutes as default).

- **Show Date Time on Wallpaper | Date Time color::** Displays the date/time on the top right of the display. You can also select the color to apply to this Date & Time text on main screen**.**

iOS Mirror: Activate or Deactivate the iOS Mirroring Feature

- When activated for the first time, the VIA's AirPlay device will be named VIA_AirMirror_XXXX, where XXXX is a random combination of letters and numbers This is the name that will appear when you look for AirPlay devices on your iOS device and it can be changed.
- Additionally, it defaults to allow 4 iOS devices to be mirrored to the VIA Connect PRO simultaneously. This setting can also be changed. Once these setting changes have been made, click Apply. Reboot the VIA Connect PRO to allows the settings to take effect.

Auto Power Off Timing

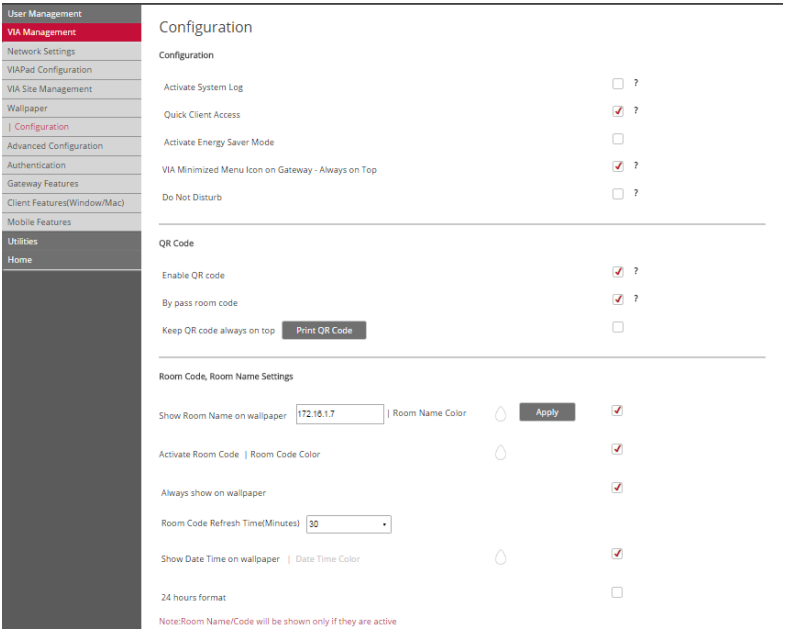
- Activate this feature to allow the unit to Auto Power Off at a selected time (note that it is a 24 hours based clock)
- Auto Reboot Timing
- Activate this feature to allow the unit to reboot automatically at a selected time (note that it is a 24 hours based clock)

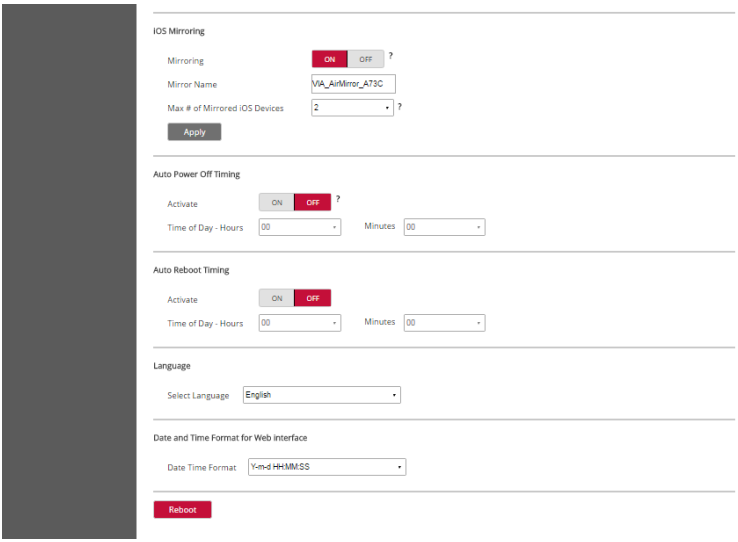
Language

- Select your preferred language for your VIA interface

Date and Time Format for Web Interface

- Select your preferred Date and Time format


User Management
VIA Management
Network Settings
VIAPad Configuration
VIA Site Management
Wallpaper
| Configuration
Advanced Configuration
Authentication
Gateway Features
Client Features(Window/Mac)
Mobile Features
Utilities
Home
Configuration
Configuration
Activate System Log
Quick Client Access
Activate Energy Saver Mode
VIA Minimized Menu Icon on Gateway - Always on Top
Do Not Disturb
QR Code
Enable QR code
By pass room code
Keep QR code always on top
Print QR Code
Room Code, Room Name Settings
Show Room Name on wallpaper
172.16.1.7
| Room Name Color
Apply
Activate Room Code | Room Code Color
Always show on wallpaper
Room Code Refresh Time(Minutes)
30
Show Date Time on wallpaper | Date Time Color
24 hours format
Note:Room Name/Code will be shown only if they are active

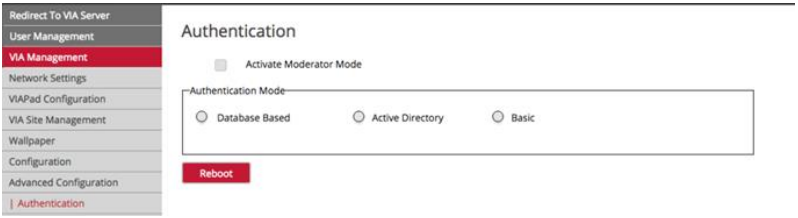

IOS Mirroring
Mirroring
ON
OFF
Mirror Name
VIA_AirMirror_A73C
Max # of Mirrored iOS Devices
2
Apply
Auto Power Off Timing
Activate
ON
OFF
Time of Day - Hours
00
Minutes
00
Auto Reboot Timing
Activate
ON
OFF
Time of Day - Hours
00
Minutes
00
Language
Select Language
English
Date and Time Format for Web interface
Date Time Format
Y-m-d HH:MM:SS
Reboot

4.9.6 Authentication

In this section, you can activate Moderator and Participant modes. In these modes, a participant requires permission from the moderator to use the “Present” function on **VIA Connect PRO**.

To enable Presentation Mode:

- Select Activate Moderator Mode
- Select which mode you want to use and reboot the VIA Connect PRO gateway



There are three different moderator modes:

A. Database Based

This mode requires building a database of users who can access the system. The users receive credentials (username and password).

There are two default users available to login into **VIA Connect PRO** client in Moderator mode.

Moderator:

- Default user name: su
  Default password: supass

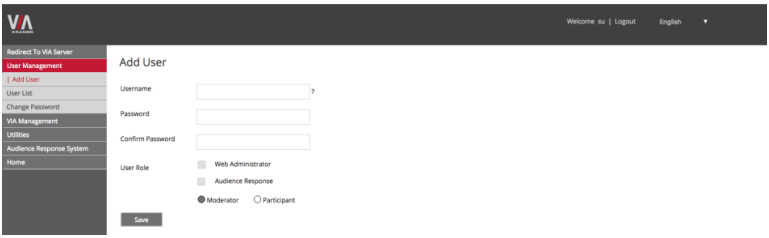
Participant:

- Default user name: user
  Default password: userpass

You can create more users as needed.

To create users:

- Open the **VIA Connect PRO** Web site by entering the **VIA Connect PRO** IP address in any Web browser (or open a browser from any client PC connected to the same network and enter the VIA Connect PRO IP address)



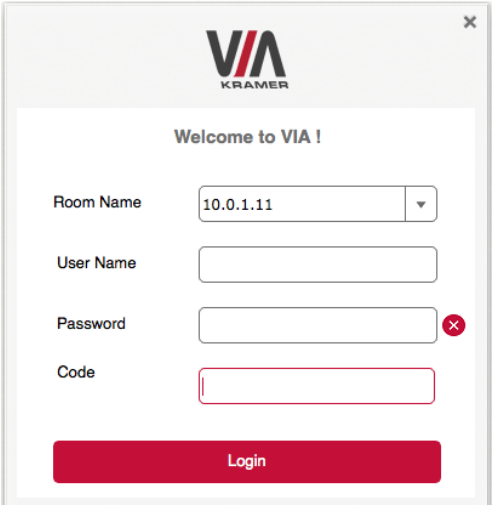
- At the top, login with default moderator username (supass). The moderator can create a database of participants by assigning a Username, Password and Role (Moderator or Participant) to each one of them, as shown below

Now any user created by the moderator can get permission to join the session.

It is also possible to select one or more users to be “Web Administrator”, with the ability to change the settings from the Web administration interface.

To login into the VIA Connect PRO client when Presentation Mode is activated:

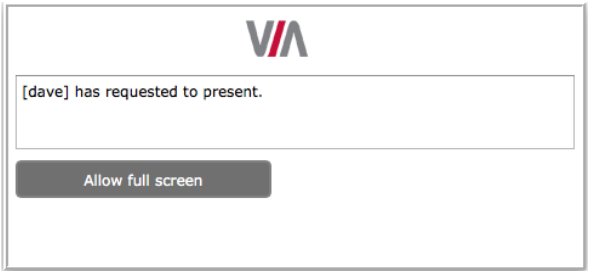
- Open the **VIA Connect PRO** client and enter the location (IP address of the **VIA Connect PRO** gateway)
- Enter user name and password (as defined by moderator)
  Now you see the Room Code field.



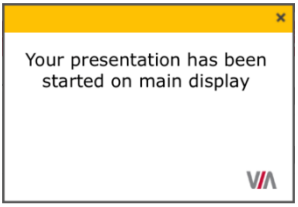
- Enter the room code (if Room Code is activated)
- Click Login

To start a presentation:

- Click “Present” and **VIA Connect PRO** sends a request to the moderator for display permission



- The moderator clicks on “Allow” to start the participant’s presentation on the collaboration display
- The user gets the following message:



- The presentation is now visible on the **VIA Connect PRO** main display

Note: The moderator can "Present" at any time without permission.

B. Active Directory

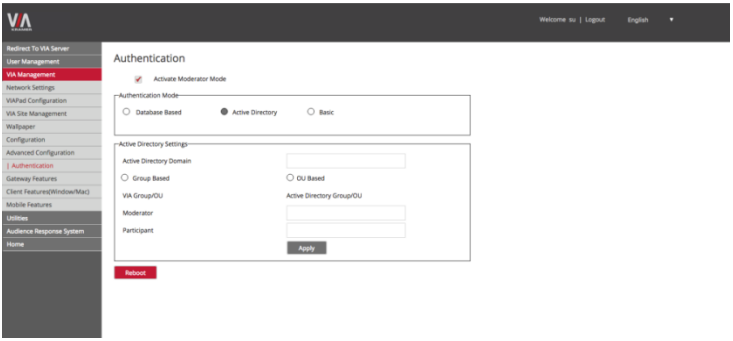
Groups grant access to resources. Organizational units (OUs) control objects and delegate group policy settings. **VIA Connect PRO** seamlessly integrates with Active directories (ADs) to avoid the hassle of creating users from VIA Connect PRO's Web UI.

VIA Connect PRO Gateway contains the following groups that must be mapped with Active Directory groups or organizational units:

- **Moderator**: A user with meeting moderator rights i.e., this user can directly display his/her screen on a VIA Connect PRO Gateway and can allow a participant requesting for presentation on the main display.
- **Participant**: A participant of a presentation session who can join the meeting room but cannot project their desktop without the moderator's permission.

Active directory must have groups or OUs similar to the above Moderator-Participant hierarchy. Do not use groups which have any employee in common.

If there is no such group or OU, create them in such a way that an employee is not in the moderator and the participant group at the same time.



Note: All connecting devices must be governed through this AD or they cannot login.

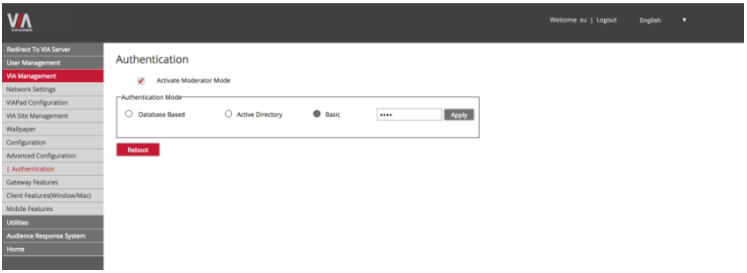
1. Click **Activate Presentation Mode.**
2. Click **Active Directory** under **Authentication Mode**.
3. Under **Active Directory Settings,** type in the Active Directory name in **Active Directory Domain** text box.
4. Select the **Group Based** or **OU Based** radio button as per your Active Directory configuration.
5. Based on the above selection, type the name of Moderator and Participant Group/OU in their respective boxes.

Note: **VIA Connect PRO** does not discover and connect to the Active Directory; rather it relies on you to correctly enter the details. If there is a typographical error in any of fields, the users (Moderators and Participants) cannot log in.

6. Click **Apply** and **Reboot** to apply the changes and restart the unit.

For further details, refer to Kramer's white paper "VIA Integration into DNS and Microsoft Active Directory".

C. Basic Moderator Mode



Basic is the simplest moderator mode. By selecting the “Basic” check box and rebooting the system, the VIA unit now asks the administrator to select a password that is used by the participants who are requesting to be moderators.

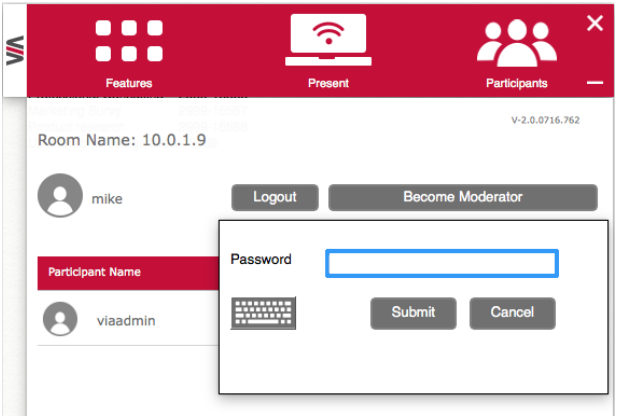
Once a password is entered, click Apply and reboot the VIA device.

To login into the VIA Connect PRO client when basic moderator mode is activated:

1. Open the **VIA Connect PRO** client and enter the location (IP address of the **VIA Connect PRO** gateway).

2. Enter the nickname.
   The Room Code field appears.

3. Enter the room code (if Room Code is activated).



4. Click **Login** and go to Participants' screen
   You can become now a moderator by selecting "Become Moderator" and entering the password.

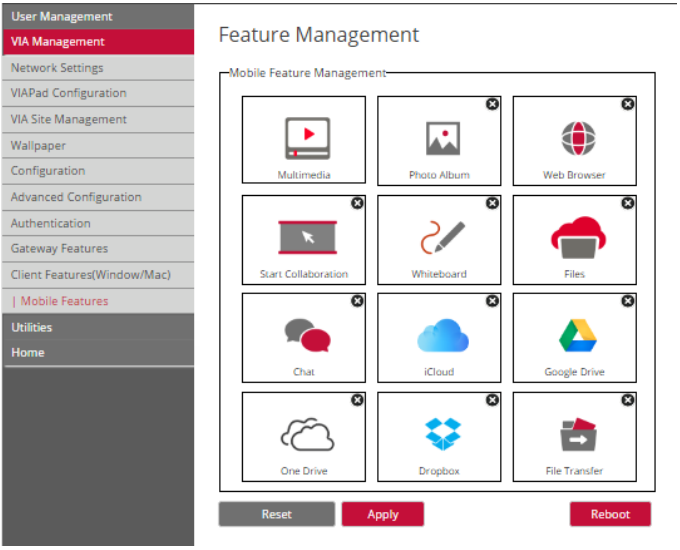
5. Click "**Leave Moderation** " anytime to stop moderating the session. Anyone else can now click "Become Moderator" and type in the password to access this privilege.

Note: There is an option to Activate/Deactivate the Chat by the moderator. This can be done during a moderated session, to restrain users from chatting.

4.9.7 Gateway Features

Manage the features available on the VIA gateway

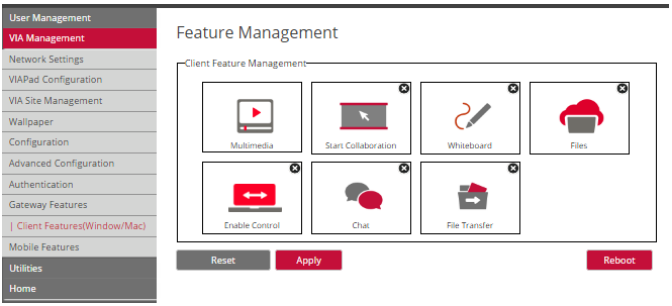
- Remove the features that you do not want to offer to the users. Click on the ⊗ on the icon you want to hide. Please note that any removed feature is just hidden and not deleted. The space allocated to this specific icon is left blank so you can manually reorganize the order of the icons by simply dragging them to your prefferred scheduling. Make sure you click on "Apply" and Reboot your unit to apply these changes.



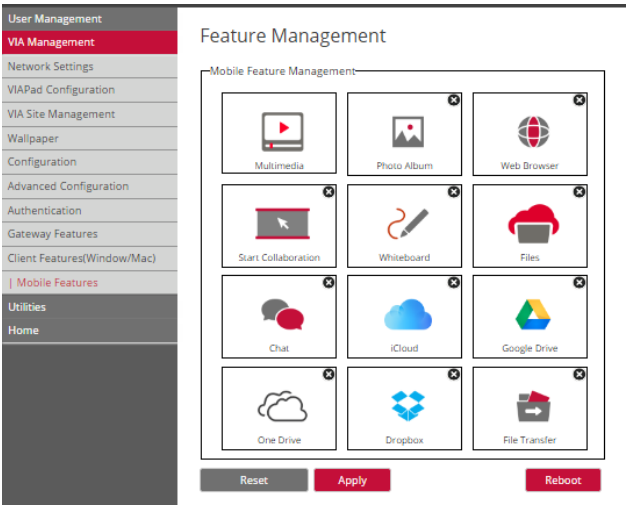
4.9.8 Client Features

Manage the features available on the VIA client applications (PC/MAC):

Remove the features you do not want to offer to the users. Click on the ⊗ on the icon you want to hide. Note that any removed feature is just hidden and not deleted. The space allocated to this specific icon is left blank so you can reorganize manually the order of the icons by simply dragging them to your preferred scheduling. Make sure you click on “Apply” and Reboot your unit to apply these changes.

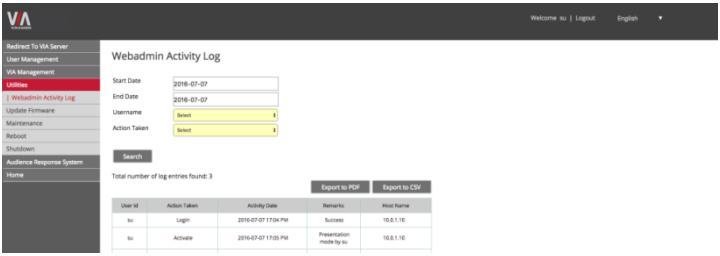


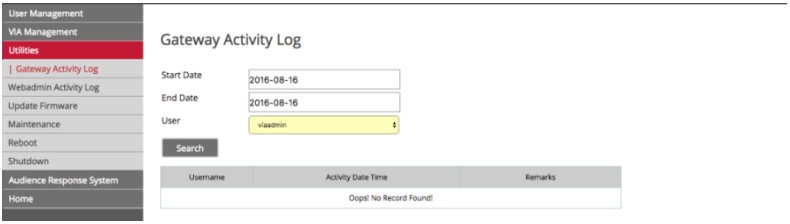
4.9.9 Mobile Features



Manage the features available on the VIA client (mobile/tablet) applications

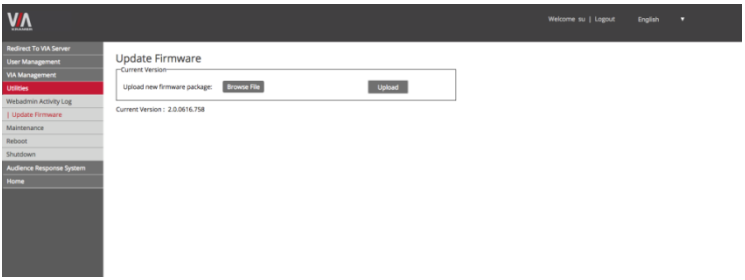
4.9.10 Using Gateway/Webadmin Activity Log





4.9.11 Update Firmware

To update your **VIA Connect PRO** unit through this interface, ONLY use the .rpm file available for download from our technical support Web page: http://www.kramerav.com/support/downloads.asp



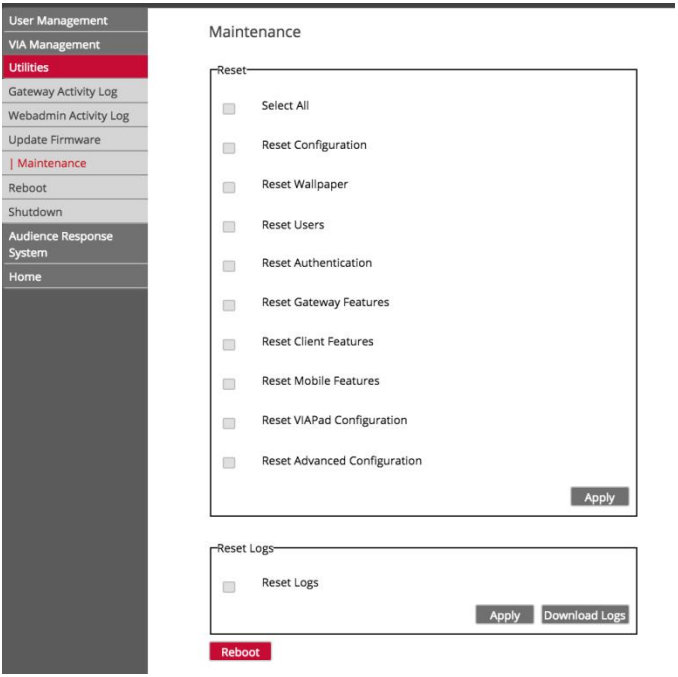
Upon completion of the process, reboot the unit.

Note: that the upload process and then the unit reboot may take a few minutes.

4.9.12 Maintenance

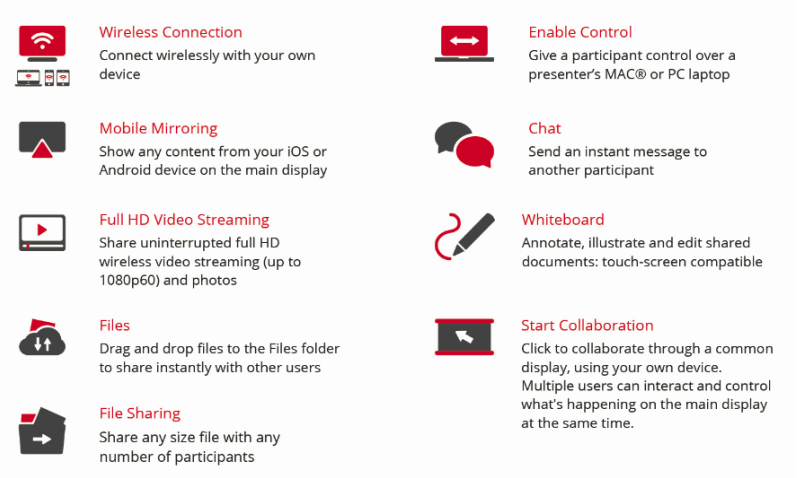
Click on **Utilities** on the left menu and then select **Maintenance.**

You can select one by one the default configurations you would like to reset or simply click on “select all” to reset to complete default factory settings.



4.10 User Experience

VIA Connect PRO enables a high level of collaboration in meetings. Participants can share files, chat, edit a common document, or stream full HD (1080p/60) video



content. Following is a summary of **VIA Connect PRO** functions:

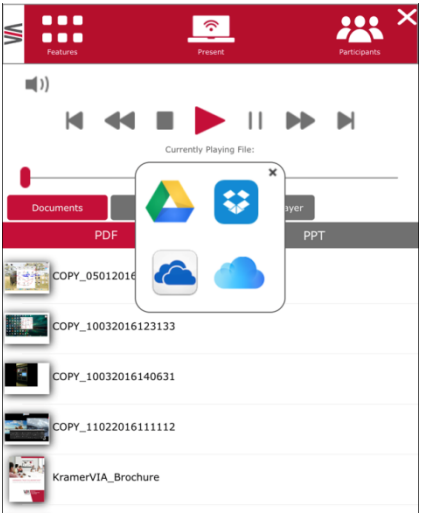
Collaboration capabilities have been enhanced with the addition of the popular cloud services:

- Google Drive
- DropBox
- OneDrive
- iCloud (for iOS users only)

Link your cloud service (Google Drive, Dropbox, OneDrive or iCloud) account to your VIA application and enjoy full access to your online documents.

Select one file from your cloud service and select among the following options:

- Open - Open the file on your screen and “Step-In” to share it on main screen
- Download - Create a copy of your online file to easily access it from your VIA Multimedia Feature



- Share - Share the selected file using your preferred mailing service

Alternatively, enjoy the ability to select one file saved in your VIA Multimedia feature (photo, document or video) and choose to upload it to your cloud service account, for later usage.

Note: Different devices enable different features depending on the device capabilities. See the following illustrations.

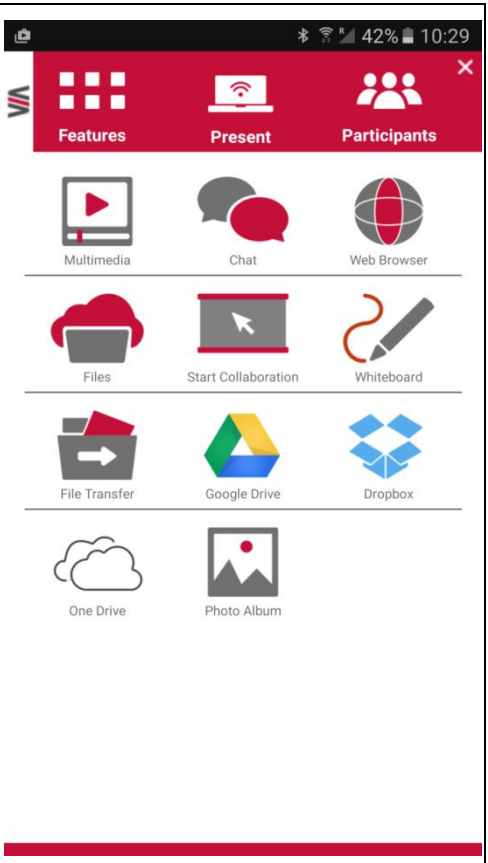


Figure 14: Samsung Galaxy S6

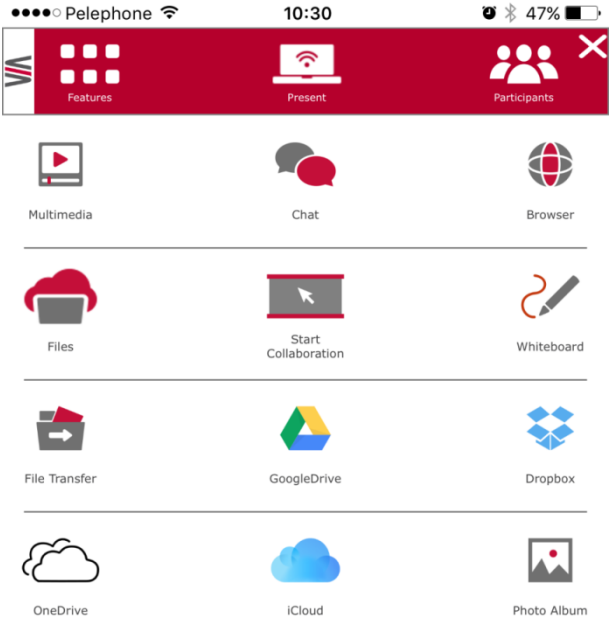


Figure 15: iPhone 6S+

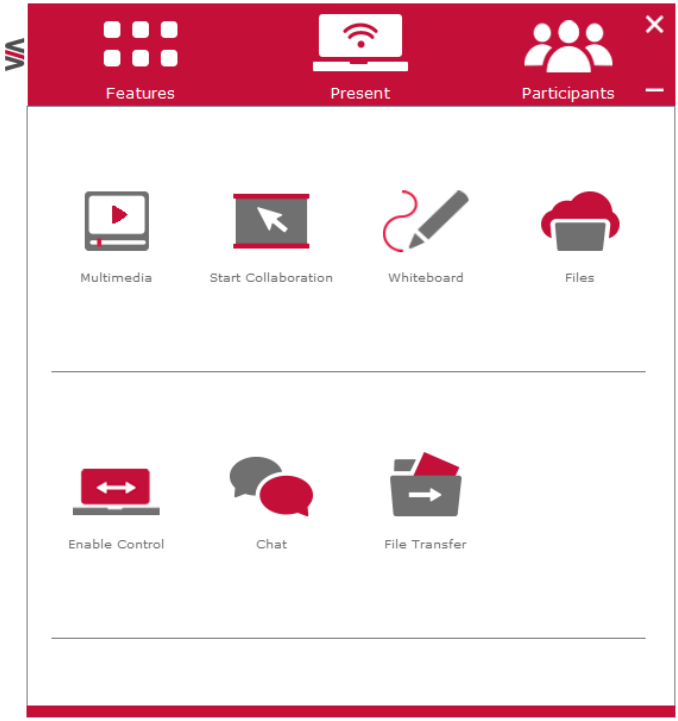


Figure 16: PC/MAC

2 Technical Specifications

INPUTS:	4 USB 3.0, 1 LAN on an RJ−45 connector
GRAPHIC OUTPUTS:	1 HDMI, 1 mini DisplayPort
AUDIO OUTPUT:	1 stereo headphones on a 3.5mm mini jack
PROCESSOR:	4th generation Intel® Dual core 1.4GHz
MAIN MEMORY:	4GB, high speed
STORAGE:	32GB, solid−state drive
LAN:	Gigabit LAN
AUDIO OUTPUT:	Analog or embedded HDMI, minimum impedance for headphones 32Ω
POWER SUPPLY:	65W power adapter (19V, 3.4A)
INPUT VOLTAGE:	100V~220V AC, 50/60Hz, auto sensing
OPERATING TEMPERATURE:	0° to +40°C (32° to 104°F)
STORAGE TEMPERATURE:	-40° to +70°C (-40° to 158°F)
HUMIDITY:	10% to 90%, RHL non-condensing
DIMENSIONS:	11.8cm x 11.5cm x 4.0cm (4.6” x 4.5” x 1.6”) W, D, H.
NET WEIGHT:	0.475kg (1.0lbs)
INCLUDED ACCESSORIES:	3 power cords (US, EU, UK), Kramer mini DP to VGA adapter, VESA mounting bracket
Specifications are subject to change without notice at www.kramerav.com	

Limited Warranty

The warranty obligations of Kramer Electronics Inc. ("Kramer Electronics") for this product are limited to the terms set forth below:

What is Covered

This limited warranty covers defects in materials and workmanship in this product.

What is Not Covered

This limited warranty does not cover any damage, deterioration or malfunction resulting from any alteration, modification, improper or unreasonable use or maintenance, misuse, abuse, accident, neglect, exposure to excess moisture, fire, improper packing and shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature. This limited warranty does not cover any damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by Kramer Electronics to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product. This limited warranty does not cover cartons, equipment enclosures, cables or accessories used in conjunction with this product.

Without limiting any other exclusion herein, Kramer Electronics does not warrant that the product covered hereby, including, without limitation, the technology and/or integrated circuit(s) included in the product, will not become obsolete or that such items are or will remain compatible with any other product or technology with which the product may be used.

How Long this Coverage Lasts

The standard limited warranty for Kramer products is seven (7) years from the date of original purchase, with the following exceptions:

1. All Kramer VIA hardware products are covered by a standard three (3) year warranty for the VIA hardware and a standard three (3) year warranty for firmware and software updates.
2. All Kramer fiber optic cables and adapters, active cables, all Kramer speakers and Kramer touch panels are covered by a standard one (1) year warranty.
3. All Kramer Cobra products, all Kramer Calibre products, all Kramer Minicom digital signage products, all HighSecLabs products, all streaming, and all wireless products are covered by a standard three (3) year warranty.
4. All Sierra Video MultiViewers are covered by a standard five (5) year warranty.
5. Sierra switchers & control panels are covered by a standard seven (7) year warranty (excluding power supplies and fans that are covered for three (3) years).
6. K-Touch software is covered by a standard one (1) year warranty for software updates.
7. All Kramer passive cables are covered by a ten (10) year warranty.

Who is Covered

Only the original purchaser of this product is covered under this limited warranty. This limited warranty is not transferable to subsequent purchasers or owners of this product.

What Kramer Electronics Will Do

Kramer Electronics will, at its sole option, provide one of the following three remedies to whatever extent it shall deem necessary to satisfy a proper claim under this limited warranty:

1. Elect to repair or facilitate the repair of any defective parts within a reasonable period of time, free of any charge for the necessary parts and labor to complete the repair and restore this product to its proper operating condition. Kramer Electronics will also pay the shipping costs necessary to return this product once the repair is complete.
2. Replace this product with a direct replacement or with a similar product deemed by Kramer Electronics to perform substantially the same function as the original product.
3. Issue a refund of the original purchase price less depreciation to be determined based on the age of the product at the time remedy is sought under this limited warranty.

What Kramer Electronics Will Not Do Under This Limited Warranty

If this product is returned to Kramer Electronics or the authorized dealer from which it was purchased or any other party authorized to repair Kramer Electronics products, this product must be insured during shipment, with the insurance and shipping charges prepaid by you. If this product is returned uninsured, you assume all risks of loss or damage during shipment. Kramer Electronics will not be responsible for any costs related to the removal or re-installation of this product from or into any installation. Kramer Electronics will not be responsible for any costs related to any setting up this product, any adjustment of user controls or any programming required for a specific installation of this product.

How to Obtain a Remedy Under This Limited Warranty

To obtain a remedy under this limited warranty, you must contact either the authorized Kramer Electronics reseller from whom you purchased this product or the Kramer Electronics office nearest you. For a list of authorized Kramer Electronics resellers and/or Kramer Electronics authorized service providers, visit our web site at www.kramerav.com or contact the Kramer Electronics office nearest you.

In order to pursue any remedy under this limited warranty, you must possess an original, dated receipt as proof of purchase from an authorized Kramer Electronics reseller. If this product is returned under this limited warranty, a return authorization number, obtained from Kramer Electronics, will be required (RMA number). You may also be directed to an authorized reseller or a person authorized by Kramer Electronics to repair the product.

If it is decided that this product should be returned directly to Kramer Electronics, this product should be properly packed, preferably in the original carton, for shipping. Cartons not bearing a return authorization number will be refused.

Limitation of Liability

THE MAXIMUM LIABILITY OF KRAMER ELECTRONICS UNDER THIS LIMITED WARRANTY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID FOR THE PRODUCT. TO THE MAXIMUM EXTENT PERMITTED BY LAW, KRAMER ELECTRONICS IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY. Some countries, districts or states do not allow the exclusion or limitation of relief, special, incidental, consequential or indirect damages, or the limitation of liability to specified amounts, so the above limitations or exclusions may not apply to you.

Exclusive Remedy

TO THE MAXIMUM EXTENT PERMITTED BY LAW, THIS LIMITED WARRANTY AND THE REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL OR WRITTEN, EXPRESS OR IMPLIED. TO THE MAXIMUM EXTENT PERMITTED BY LAW, KRAMER ELECTRONICS SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IF KRAMER ELECTRONICS CANNOT LAWFULLY DISCLAIM OR EXCLUDE IMPLIED WARRANTIES UNDER APPLICABLE LAW, THEN ALL IMPLIED WARRANTIES COVERING THIS PRODUCT, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY TO THIS PRODUCT AS PROVIDED UNDER APPICABLE LAW.

IF ANY PRODUCT TO WHICH THIS LIMITED WARRANTY APPLIES IS A "CONSUMER PRODUCT" UNDER THE MAGNUSON-MOSS WARRANTY ACT (15 U.S.C.A. §2301, ET SEQ.) OR OTHER APPICABLE LAW, THE FOREGOING DISCLAIMER OF IMPLIED WARRANTIES SHALL NOT APPLY TO YOU, AND ALL IMPLIED WARRANTIES ON THIS PRODUCT, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR THE PARTICULAR PURPOSE, SHALL APPLY AS PROVIDED UNDER APPLICABLE LAW.

Other Conditions

This limited warranty gives you specific legal rights, and you may have other rights which vary from country to country or state to state.

This limited warranty is void if (i) the label bearing the serial number of this product has been removed or defaced, (ii) the product is not distributed by Kramer Electronics or (iii) this product is not purchased from an authorized Kramer Electronics reseller. If you are unsure whether a reseller is an authorized Kramer Electronics reseller, visit our web site at www.kramerav.com or contact a Kramer Electronics office from the list at the end of this document.

Your rights under this limited warranty are not diminished if you do not complete and return the product registration form or complete and submit the online product registration form. Kramer Electronics thanks you for purchasing a Kramer Electronics product. We hope it will give you years of satisfaction

KRAMER

P/N: 2900-300419 Rev: 7

SAFETY WARNING

Disconnect the unit from the power supply before opening and servicing

For the latest information on our products and a list of Kramer distributors, visit our Web site to find updates to this user manual.

We welcome your questions, comments, and feedback.

www.kramerAV.com
info@kramerel.com