



KRAMER ELECTRONICS LTD.

USER MANUAL

MODEL:

VIA Connect PRO

Collaboration Hub

[For Firmware Version 1.7]

P/N: 2900-300419 Rev 3



VIA CONNECT PRO QUICK START GUIDE

For Installer

This guide helps you install and use your product for the first time.

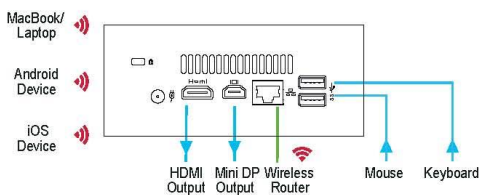
For more detailed information, go to www.True-Collaboration.com to download the latest manual or scan the QR code above.

STEP 1: Check What's in the Box

1. **VIA Connect PRO** Collaboration Device
2. Power supply with power cords
3. Quick Start Guide
4. Mini DP to VGA Adapter

STEP 2: 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 3: Connect the Unit

- Connect keyboard and mouse
- Connect your main 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 4: 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 or use the DHCP option to get an automatic IP address. Apply settings and reboot.
- **Room Name/Code** – Manage room code and name preferences
- **Configurations** – Activate System Log and Energy Saver
- **System Controls** – Manage your display and audio settings, run control panel, select your language, etc.
- **Wallpaper** – Insert a custom wallpaper image
- **Authentication** – Activate moderator mode and define moderator/participant settings
- **Mirroring** – Activate/deactivate iOS mirroring support and configure it

After settings are defined, click on the 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 **Click to Run** to execute the application only (intended for guests who will be using the VIA once) or select **Click to Install VIA** to download the VIA application on your computer (intended for regular users of the VIA).



iOS / Android

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

STEP 3: Login

VIA KRAMER

Room Name: 192.168.11.67

Nickname: dave

Room Code: 0002

Login

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

Nickname: Enter a name for your device.

Room Code: Enter a 4-digit code as it appears in the wallpaper.

Login: Press Login to join the meeting.

STEP 4: Main Menu



Click on Step-in™ to put your screen up front and on Participants to see who else is connected.

STEP 5: Features



Wireless Connection

Bring your own device (BYOD) and join the session through wireless connection.



Enable Control

Give a participant control over the presenter's MAC® or PC laptops.



MultiMedia

Share uninterrupted full HD wireless video streaming (up to 1080p60) and photos.



Chat

Send an instant message to any other participant.



Cloud

Drag and drop files to the cloud to share instantly with everyone in the meeting.



Whiteboard

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



File Transfer

Share any size file with any number of participants.



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.



iOS Mirroring

Show any content from your iOS device on the main display

Contents

1	Introduction	1
1.1	Applications & Features	2
1.2	Controls and Connections	3
2	Setting Up	4
2.1	Connecting VIA Connect PRO to a Display	5
2.2	Downloading and Running VIA Connect PRO Software	6
2.3	Logging In to VIA Connect PRO	8
2.4	Using iOS Mirroring to Share your Screen	8
3	VIA Connect PRO Functions and What They Do	12
4	Using VIA Connect PRO	15
4.1	VIA Connect PRO Main Menu	15
4.2	Enabling Control	16
4.3	Chatting with Participants	17
4.4	Sharing Files	18
4.5	Accessing Cloud Data	20
4.6	Whiteboard Collaboration	21
4.7	VIA Connect PRO Settings Menu	24
4.8	Managing Settings from the VIA Web Management Interface	38
4.9	User Experience	49
5	Technical Specifications	55

Figures

Figure 1: VIA Connect PRO Collaboration Hub	3
Figure 2: Connecting the VIA Connect PRO Collaboration Hub	5
Figure 3: VIA Connect PRO Admin Screen and Features	12
Figure 4: VIA Connect PRO Main User Screen and Features	13
Figure 5: The Participant List	15
Figure 6: Enable Control	17
Figure 7: Chat Window	18
Figure 8: Admin File Sharing	19
Figure 9: User File Sharing	19
Figure 10: Shared Files on the Cloud	20
Figure 11: Whiteboard Toolbar	22
Figure 12: Settings Screen	25
Figure 13: LAN Settings Screen	26
Figure 14: Room/Name Code Screen	27
Figure 15: Configurations Screen	28
Figure 16: System Control Screen	29
Figure 17: Wallpaper Screen	30
Figure 18: Authentication Screen	31
Figure 19: Moderator Mode	33
Figure 20: Login Screen When Moderator Mode is Active	34
Figure 21: Samsung Galaxy	51
Figure 22: iPad	52
Figure 23: iPhone	53
Figure 24: PC	54

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 and Android mobile operating systems
- 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**:

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 Step-out 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. Windows and Mac PC 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 Collage features a 10Mbps maximum video bitrate for 30fps or 60fps videos and handles video files of up to 8GB.

1.2 Controls and Connections

This section defines **VIA Connect PRO**.

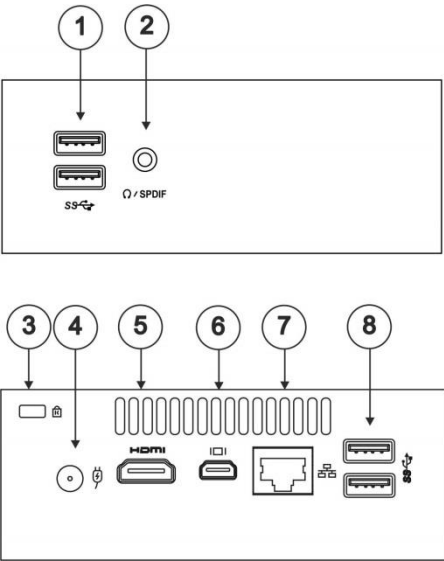


Figure 1: VIA Connect PRO Collaboration Hub

#	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



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® (32-bit/64-bit) computer
- A Macintosh® computer, using OSX 10.6.5 or newer (version 10.6.8 recommended)
- An iPad/iPhone® tablet/smartphone with the **VIA Connect PRO** app installed (iPad 2 or later, iOS 5 or later, iOS 6.0 recommended)
- An Android® OS 3.2 tablet/smartphone with the **VIA Connect PRO** app installed

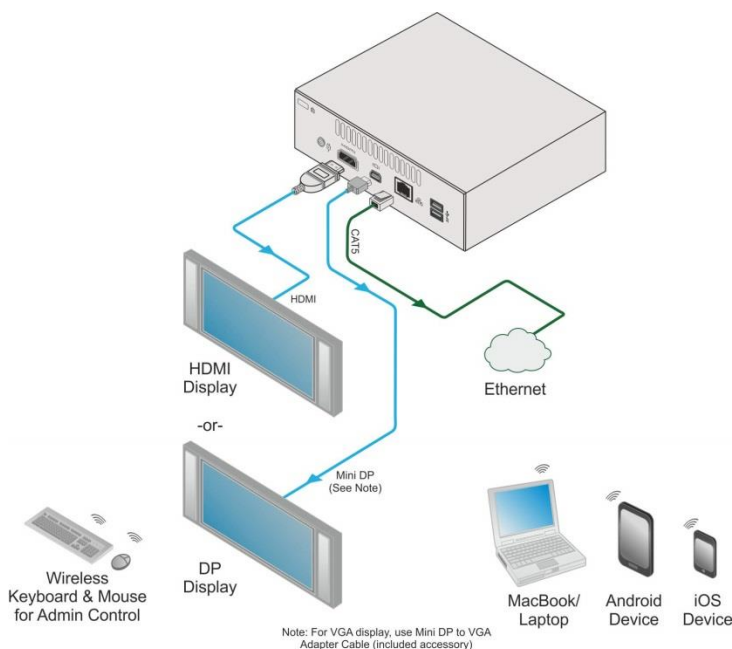


Figure 2: Connecting the VIA Connect PRO Collaboration Hub

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**.

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).

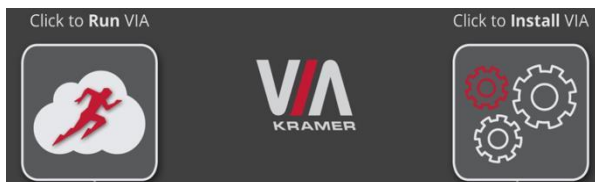
The **VIA Connect PRO** hub receives user's display/screen information and multimedia files from their device (laptop/tablet/smartphone) and sends them to the collaboration display (the display connected directly to **VIA Connect PRO** hub unit).

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 app.

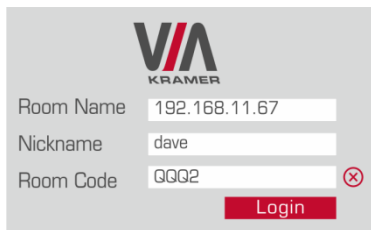
To access the PC and Mac executable files:

- 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.



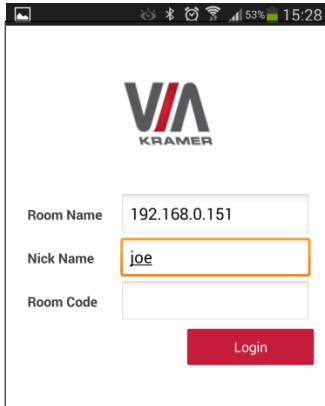
The image shows a login interface for the VIA KRAMER app. At the top is the VIA KRAMER logo. Below it are three input fields: 'Room Name' with the value '192.168.11.67', 'Nickname' with the value 'dave', and 'Room Code' with the value '0002'. To the right of the 'Room Code' field is a red circle with a white 'X' icon. At the bottom center is a red 'Login' button.

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

Alternatively, you can open your Web browser on your mobile device and enter the IP address for your VIA Connect PRO unit; choose from the following two options:



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



2.3 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 and Android

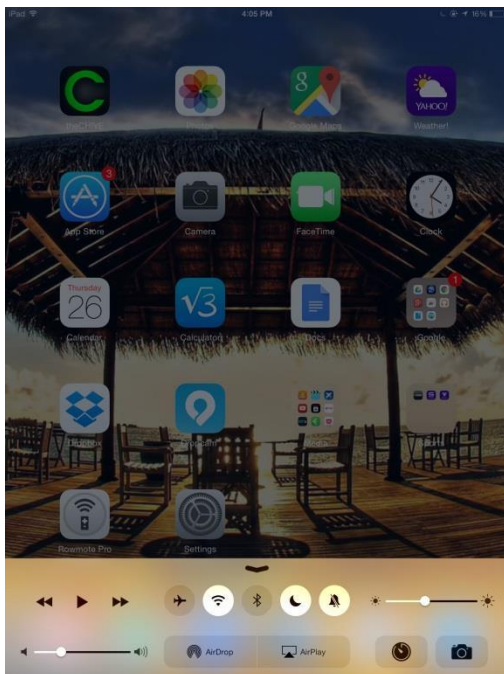
- First, enter the IP address for the **VIA Connect PRO**. This is found on the main display screen in the lower left
- Next, choose a username (nickname) for your device (it can be any mix of letters and numbers) then enter it on the login screen of your device
- Finally, enter the room code as seen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

2.4 Using iOS 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 1.6 or later and iOS mirroring feature must be enabled (see the “settings” section for more details).

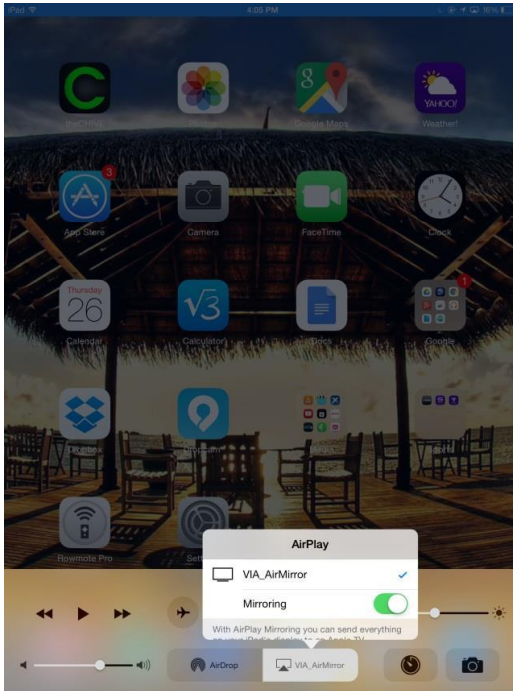
2.4.1 From your iOS Device (iPhone or iPad/Mini iPad)

- 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.



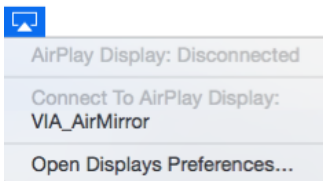
- Click AirPlay and choose the VIA Connect PRO's AirPlay device name. By default the VIA's AirPlay device is named VIA_AirMirror_XXXX, where XXXX is a random combination of letters and numbers.

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.



2.4.2 MacBooks and Apple Computers

- 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 your iOS device. This code appears on the main screen of the VIA Connect PRO.

3 VIA Connect PRO Functions and What They Do

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:

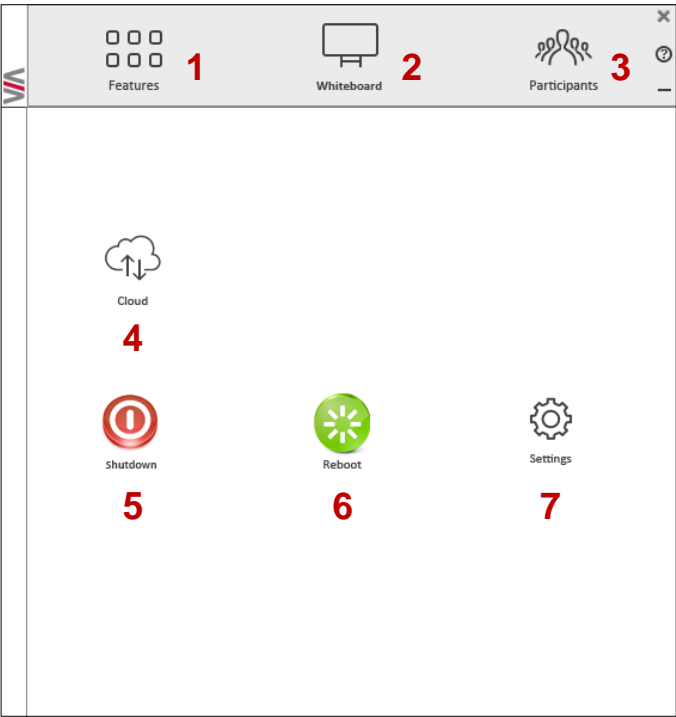


Figure 3: VIA Connect PRO Admin Screen and Features

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	Shutdown	Shuts down VIA Connect PRO system
6	Reboot	Reboots VIA Connect PRO System
7	Settings	Performs settings on the LAN, configurations related to room code, system controls, wallpaper and activation center

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

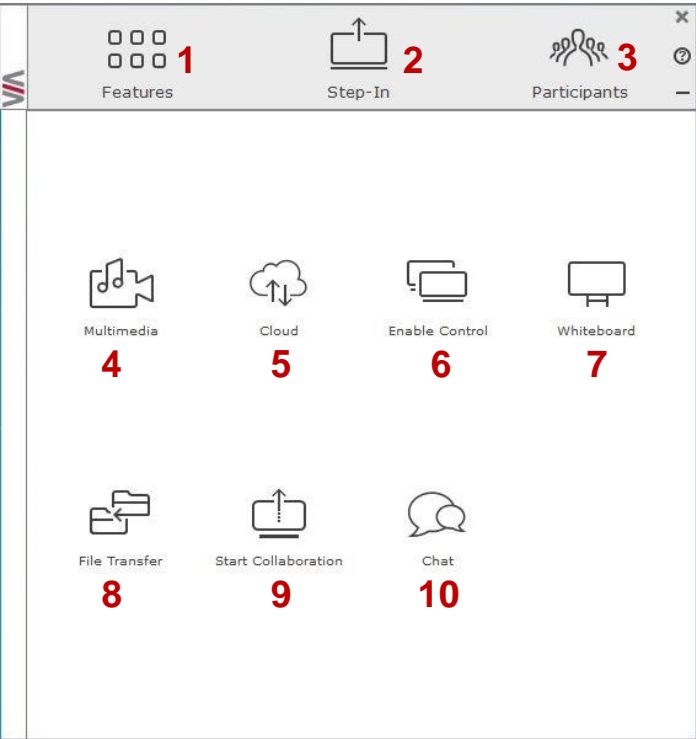


Figure 4: VIA Connect PRO Main User Screen and Features

Item	Icon	Action
1	Features	Allows user to see and access all available features of VIA Connect PRO
2	Step-In/ Step-Out	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, mpx (ex. mpg). Shares smooth full-motion video (up to 1080p/60), MP3 files and photos
5	Cloud	Drag and drop files to the cloud to share instantly with everyone in the session
6	Enable Control	Gives participants control over the presenters Mac or PC laptop
7	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
8	File Transfer	Shares files between the available participants during the session
9	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
10	Chat	Allows sending chat messages among available participants during that 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.

The **VIA Connect PRO** User main menu has three tabs across the top – Features, Step-In/Out, and Participants.

- Clicking on the Features icon on the main menu allows the user to see and access all available functions of **VIA Connect PRO**
- Clicking on the Step-In icon on the main menu displays your PC/device screen on the main screen. Clicking Step-Out removes your device screen from the main screen
- Clicking on the Participants icon ([Figure 5](#)) displays a list of all participants in the session

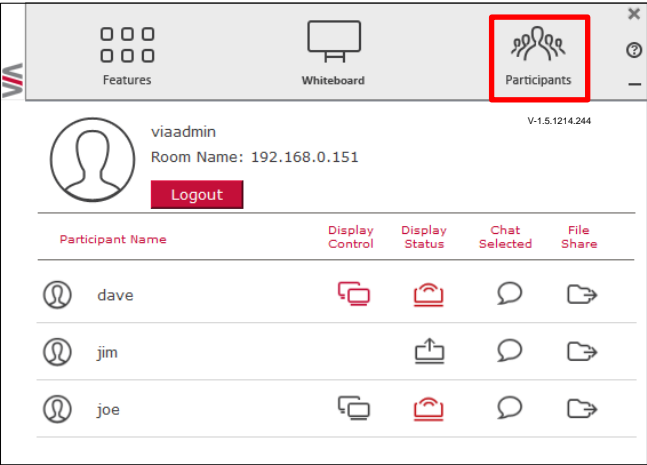










Figure 5: The Participant List

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 6](#), 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:

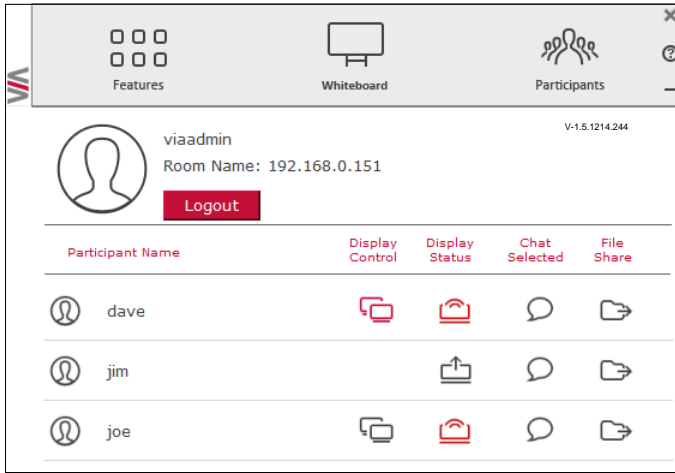



Figure 6: Enable Control

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 7](#)) and you can chat with selected participant:

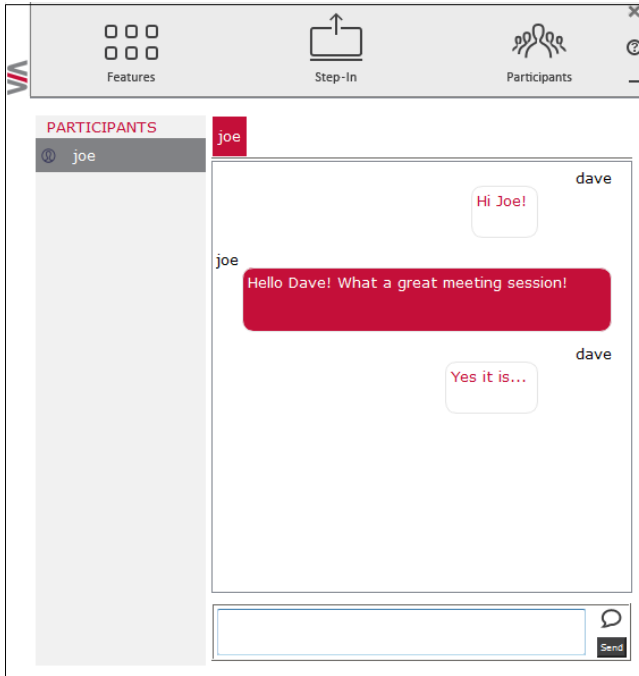


Figure 7: Chat Window

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 Sharing Files

VIA Connect PRO can transfer files between PC/Mac 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 

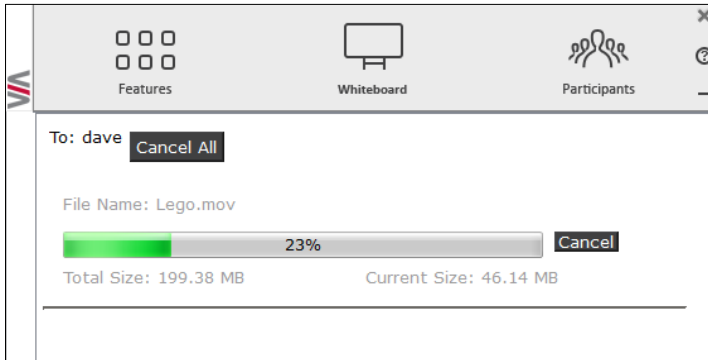


Figure 8: Admin File Sharing

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.

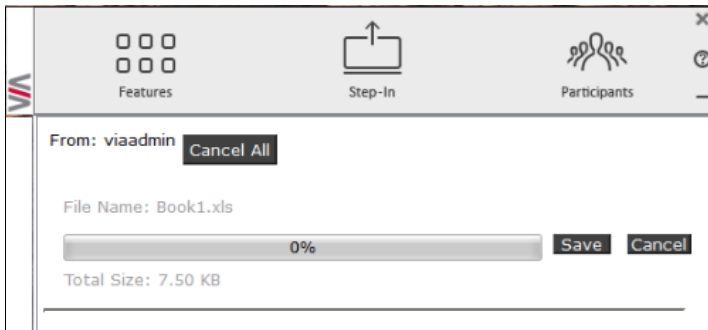


Figure 9: User File Sharing

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

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



4.5 Accessing Cloud Data

The cloud is used by the admin to access all data that has been shared by participants using **VIA Connect PRO** hub.

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' shared files were saved.

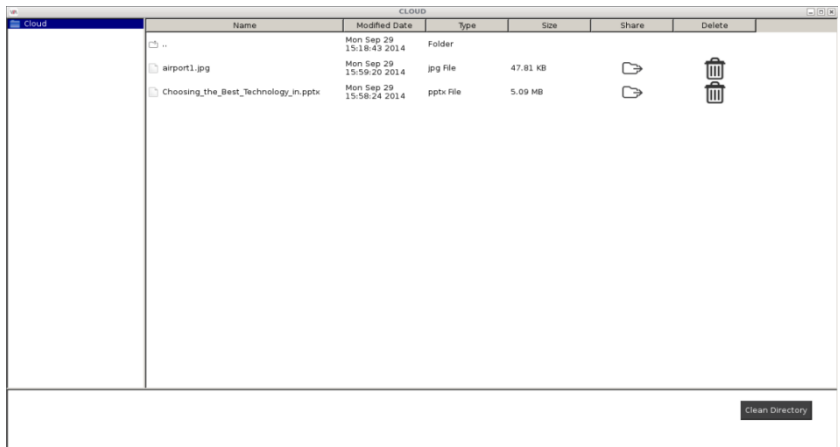


Figure 10: Shared Files on the Cloud

- 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.

4.6 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.

4.6.1 Whiteboard Functions

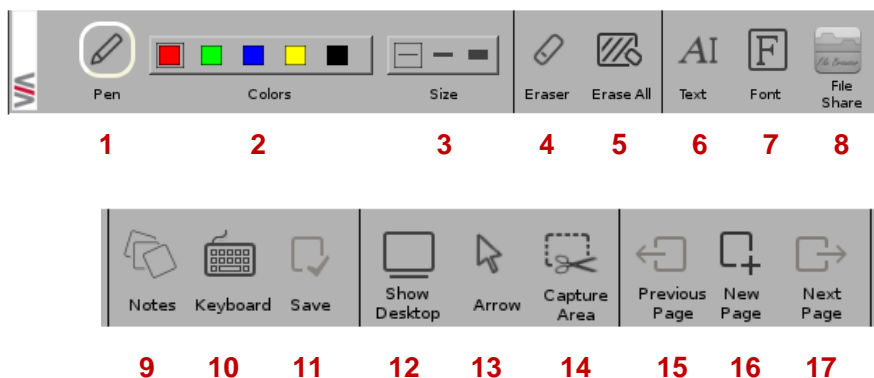











Figure 11: Whiteboard Toolbar

Item	Icon	Action
1	Pen	Enables drawing on the whiteboard
2	Colors	Changes the color of line with various available colors
3	Size	Chooses the line thickness
4	Eraser	Erases your annotations
5	Erase All	Cleans the page
6	Text	Inserts text at your whiteboard page
7	Font	Changes text font of your whiteboard page
8	File Share	Shares files between the available participants during the session
9	Notes	Creates comments or remarks about your annotation at whiteboard page
10	Keyboard	Opens a virtual keyboard at whiteboard to insert text
11	Save	Saves all your activities either as PDF or as JPEG format
12	Show Desktop	Displays your desktop with all running applications, user can also annotate at the running application using desktop stylus
13	Arrow	Selects any object or image
14	Capture Area	The mouse pointer turns into 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
15	Previous Page	Moves to previous page (when multiple pages added)
16	New Page	Creates a new page or to add a new page
17	Next Page	Moves to next page (when multiple pages added)

4.6.2 **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
	Whiteboard	Press this button to immediately return to your board page
	Pencil	Writes on the whiteboard
	Eraser	Erases precisely what you have written on the whiteboard
	Selection Tool	Selects any object to move it and apply changes
	Capture Area Tool	The mouse pointer turns into plus sign. Click and drag over the desired area
	Window Selection	Directly captures a window and all of its content.
	Save	Saves your activity in either .jpg or .pdf format
	Show/Hide	Show/hide annotations
	Exit	Exits the whiteboard

4.7 VIA Connect PRO Settings Menu

The Settings menu is where you configure your **VIA Connect PRO** unit.

The Settings menu tabs include:

- LAN Settings – configures network parameters
- Room Name/Room Code – manages room code and name preferences
- Configurations – activates/deactivates energy saving mode and system log
- System Controls – manages your display and audio settings and selects the preferred language
- Wallpaper – inserts a customized wallpaper
- Authentication – activates moderator mode and defines moderator/participants settings
- Mirroring – Enables and configures your iOS mirroring feature

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 12: Settings Screen

4.7.1 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 1

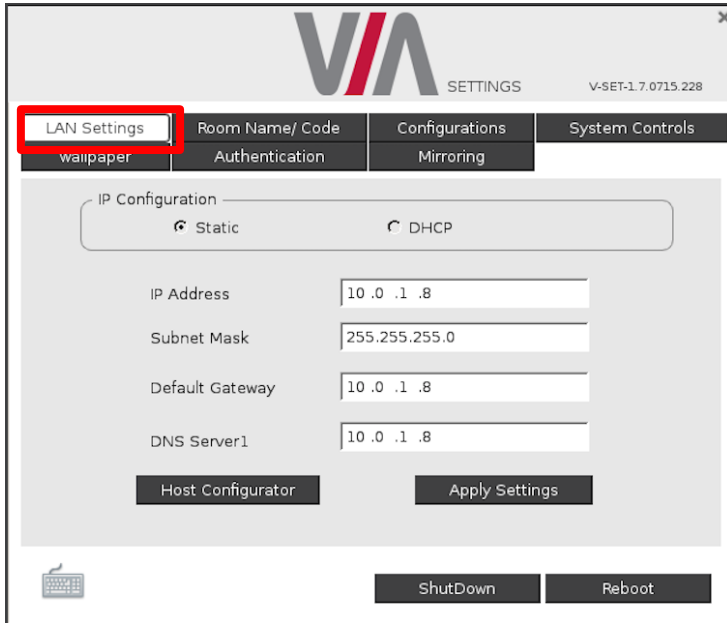


Figure 13: LAN Settings Screen

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

4.7.2 Room Name/Code Settings

To activate/deactivate Room Code, Date & Time:

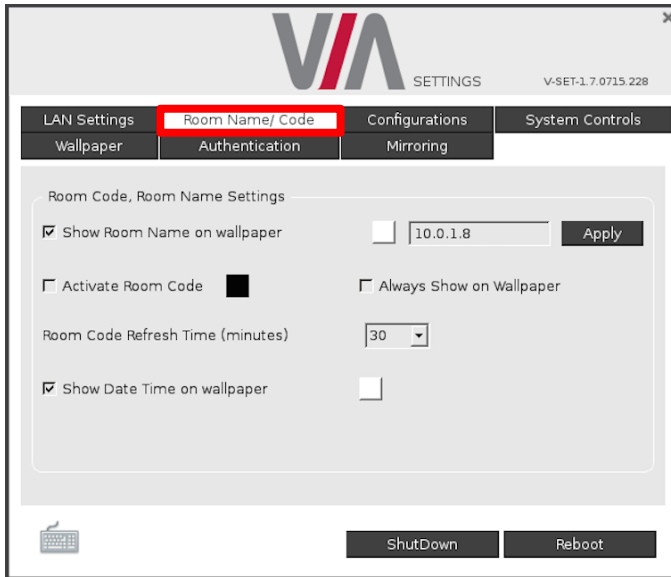


Figure 14: Room/Name Code Screen

- **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**
- **Show Date Time on Wallpaper:** Displays the date/time on the top right of the display



The color of the text of the room name, the room code, the date and time to show on the background of the **VIA Connect PRO** wallpaper can also be changed in this Settings menu.

4.7.3 Configuration Settings

To change configurations:

- Click on Configurations

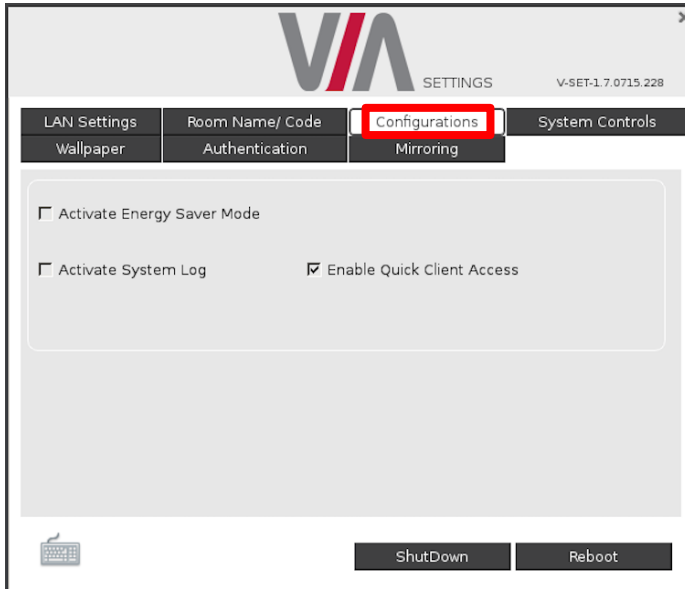


Figure 15: Configurations Screen

- **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**
- **Enable Quick Client Access** – Enables a floating icon on the desktop of the **VIA Connect PRO** gateway to open the **VIA Connect PRO** menu. The user can click on this icon and the menu opens
- **Activate Energy Saving Mode** – Allows the device to switch to sleep mode after 15 minutes of no activity

4.7.4 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.

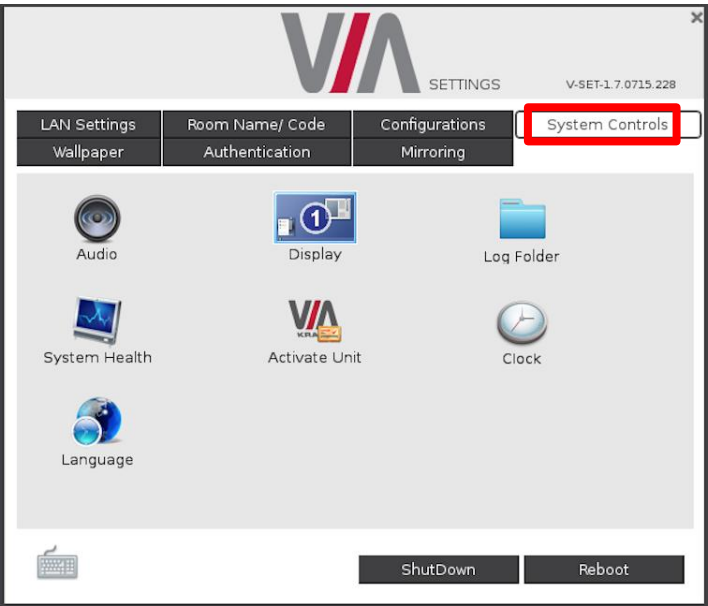


Figure 16: System Control Screen

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

4.7.5 Wallpaper Settings

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

To change wallpaper:

- Click on Wallpaper
- Click on Import Wallpaper
- Connect the USB drive with the wallpaper file (must be a png image file) and click OK from your system. Upload begins
- Click on Reboot

The background image on **VIA Connect PRO** changes after rebooting

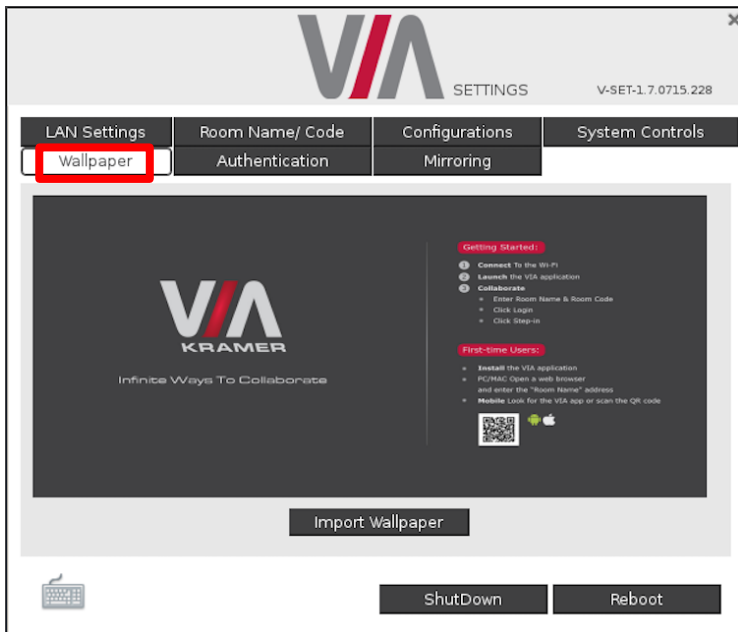


Figure 17: Wallpaper Screen

4.7.6 Authentication Settings

In this section, you can activate the Moderator Mode.

In this mode, a participant requires permission from the moderator to use the Step-In function on **VIA Connect PRO**.

To enable Moderator Mode:

- Click on Authentication
- Select Activate Moderator Mode and the desired Authentication Mode.

The screenshot shows the VIA Connect PRO SETTINGS window. The 'Authentication' tab is selected and highlighted with a red box. The window title is 'VIA SETTINGS' with version 'V-SET-1.7.0715.228'. The tabs are: LAN Settings, Room Name/ Code, Configurations, System Controls, Wallpaper, Authentication, and Mirroring. The 'Authentication' section includes a checkbox for 'Activate Moderator Mode'. Below it, 'Authentication Mode' has three radio buttons: 'Database Based', 'Active Directory', and 'Basic'. The 'Active Directory' mode is selected. Under 'Active Directory Settings', there are two columns. The left column has 'Active Directory Domain' with a text input field, 'Group Based' with a radio button, 'VIA Group / OU' with a dropdown menu, and 'Moderator' and 'Participant' with checkboxes. The right column has 'OU Based' with a radio button, 'Active Directory Group / OU' with a dropdown menu, and two empty text input fields. An 'Apply' button is at the bottom right of the settings area. At the bottom of the window are 'ShutDown' and 'Reboot' buttons.

Figure 18: Authentication Screen

There are three different moderator modes: Database based, active directory and Basic.

4.7.6.1 Database Based

This mode requires building a database of users that 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 the 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
- 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 in [Figure 19](#) below

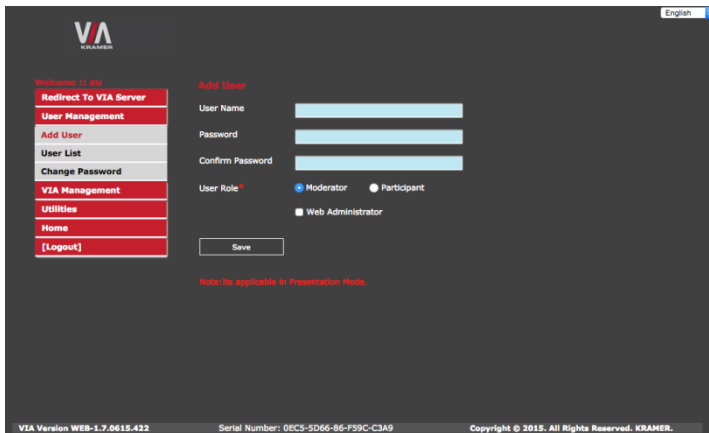


Figure 19: Moderator Mode

Now any user who was 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 on Login

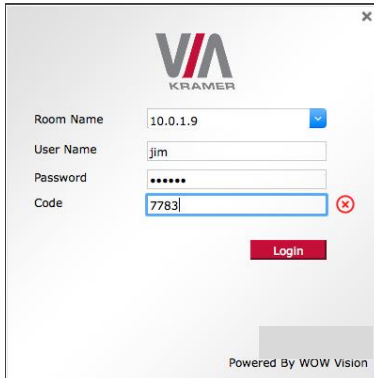


Figure 20: Login Screen When Moderator Mode is Active

To start a presentation:

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

user is requesting for display

- The moderator clicks on “Allow full screen” to start the participant’s presentation on the collaboration display
The presentation is now visible on the **VIA Connect PRO** main display

Note: The moderator can “Step-In” at any time without permission.

4.7.6.2 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 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 screen on a VIA Connect PRO Gateway and can allow a participant requesting to present 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 organizational unit (OU), create them in a way that an employee is not in the moderator and the participant group at the same time.

The screenshot shows the VIA Connect PRO Settings window. The 'Authentication' tab is selected. Under 'Authentication Mode', 'Active Directory' is chosen. The 'Active Directory Settings' section includes a text box for 'Active Directory Domain', radio buttons for 'Group Based' and 'OU Based', and text boxes for 'Moderator' and 'Participant'. An 'Apply' button is located at the bottom right of the settings section. The window also has tabs for 'LAN Settings', 'Room Name/ Code', 'Configurations', and 'System Controls'. The 'Room Name/ Code' tab is currently active, showing 'Wallpaper' and 'Authentication' sub-tabs. The 'Authentication' sub-tab is selected. At the bottom of the window, there are 'ShutDown' and 'Reboot' buttons.

Note: All connecting devices are governed through this AD or 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.

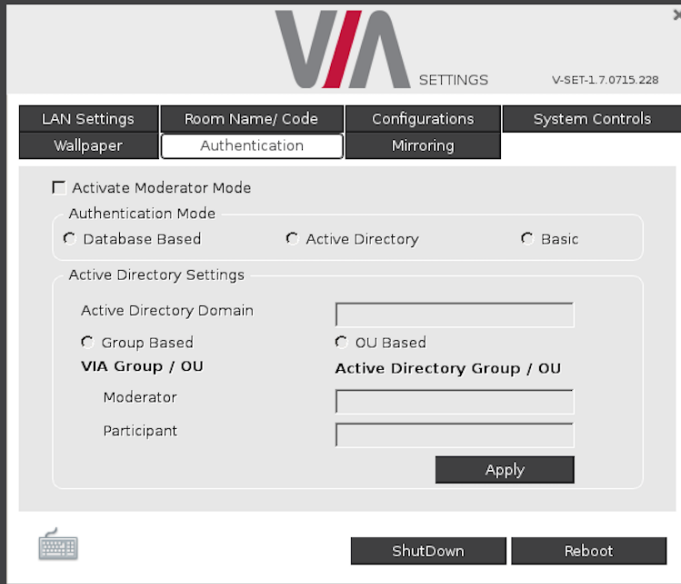
Note: **VIA Connect PRO** does not discover and connect to the Active Directory; rather it relies on you to correctly enter the details. If there is a typographical error in any of fields, the users (Moderators and Participants) cannot log in.

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

4.7.6.3 Basic

Basic is the simplest moderator mode. By selecting the “Basic” check box and rebooting the system, the VIA unit now selects the first user logged in as the moderator.

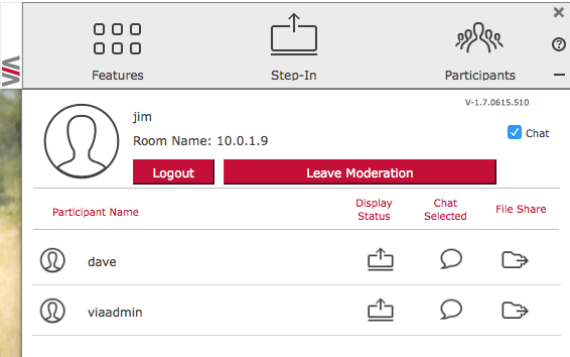
At any time, the moderator can leave his role and anyone else can take it.



The screenshot shows the VIA Connect PRO Settings window. The top bar includes the VIA logo, the word "SETTINGS", and the version "V-SET-1.7.0715.228". Below this is a navigation bar with tabs: LAN Settings, Room Name/ Code, Configurations, and System Controls. The "Configurations" tab is active, showing sub-tabs: Wallpaper, Authentication, and Mirroring. The "Authentication" sub-tab is selected. The main content area has a section "Activate Moderator Mode" with a checkbox. Below it is "Authentication Mode" with three radio buttons: Database Based, Active Directory, and Basic. The "Basic" radio button is selected. Under "Active Directory Settings", there are two columns of options. The left column has "Active Directory Domain" (with a text input field), "Group Based" (radio button), "VIA Group / OU" (text input field), "Moderator" (text input field), and "Participant" (text input field). The right column has "OU Based" (radio button), "Active Directory Group / OU" (text input field), and another "Active Directory Group / OU" (text input field). At the bottom right of the settings area is an "Apply" button. At the bottom of the window are two buttons: "ShutDown" and "Reboot".

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

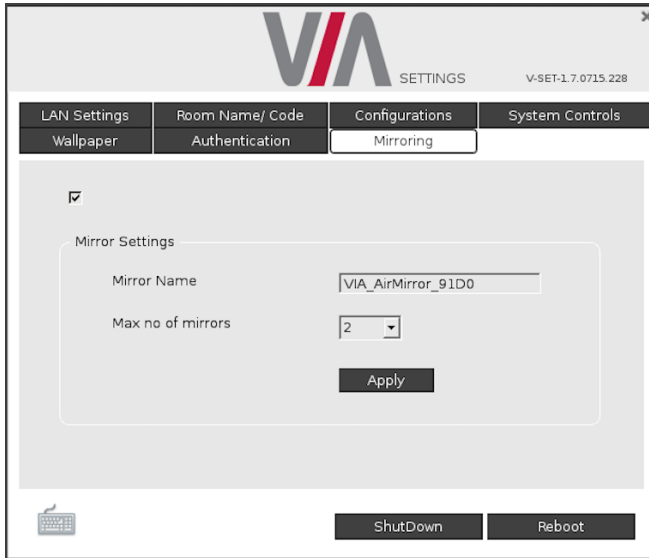
1. Open the **VIA Connect PRO** client and enter the location (IP address of the **VIA Connect PRO** gateway).
2. Enter the nickname.
The Room Code field appears.
3. Enter the room code (if Room Code is activated).
4. Click on Login.
If you're the first to login, you are the default moderator.
5. Click on “Leave Moderation” anytime to stop moderating the session.
Anyone else can now click on “Become Moderator” to access this privilege.



Participant Name	Display Status	Chat Selected	File Share
dave			
viaadmin			

4.7.7 Mirroring Settings

By default, the iOS mirroring is enabled and the settings are shown as in the following example:



The VIA AirPlay device is named VIA_AirMirror_XXXX, where XXXX is a random combination of letters and numbers. This is the name that appears when you look for AirPlay devices on your iOS device and it can be changed.

Additionally, it defaults to allow four iOS devices to simultaneously mirror on the **VIA Connect PRO**. This setting can also be changed. Once these setting changes have been made, click **Apply**. Reboot the **VIA Connect PRO** for the settings to take effect.

4.8 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”.
- Click on VIA Management tab to access the Settings menu.

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

4.8.1.1 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 will be set as default on your unit to get 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.

The screenshot shows the 'Network Settings' page of the VIA Connect PRO web interface. On the left is a sidebar menu with options: Welcome (1/84), User Management, VIA Management (selected), Network Settings, VIA Site Management, Wallpaper, Configuration, Authentication, Gateway Features, Client Features, Utilities, Home, and Logout. The main content area is titled 'Network Settings' and contains a 'Network Settings' section with radio buttons for 'Static' (selected) and 'DHCP'. Below this are three information sections: 'Device Information' with fields for Gateway IP (10.0.1.8), Subnet Mask (255.255.255.0), Default Gateway (10.0.1.8), and DNS Server (10.0.1.8); 'Mac Address Information' with a field for Mac Address (74:D4:35:CE:91:D0); and 'Diskspace Information' with fields for Total Disk Size (26.7 GB) and Space Available (21.1 GB). There are 'Apply Settings', 'Reboot', and 'Shutdown' buttons at the bottom. The footer shows 'VIA Version WEB-1.7.0715.432' and 'Copyright © 2015. All Rights Reserved. KRAMER.'

4.8.1.2 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 Collage** or **Connect** gateways. It is a Web-based interface that allows the administrator to:

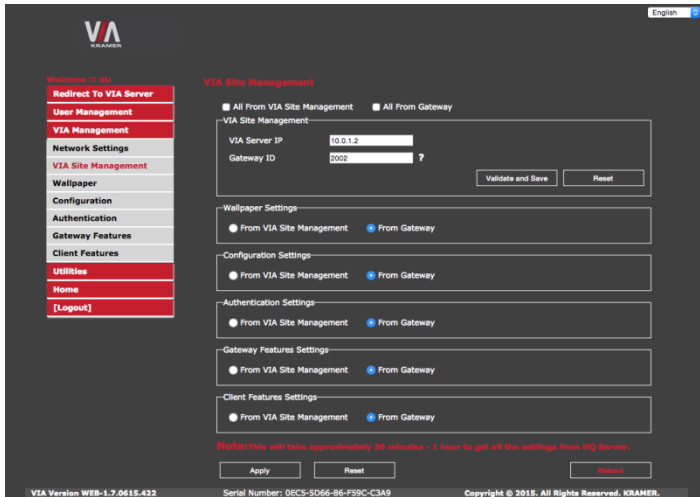
- Add or modify an existing VIA Gateway (**VIA Collage/VIA Connect PRO**)
- Push various settings like configuration, gateway features, client features, and so on to Collage/Connect units
- Update Collage/Connect units from the central server when the updates become available

- 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 or Connect unit in question.)
- Click **Validate and Save** for changes to take effect
- Choose the settings “From HQ” to download the setting from the HQ server or choose “From Gateway” to keep the local settings.
- Click **Reboot** to restart the unit



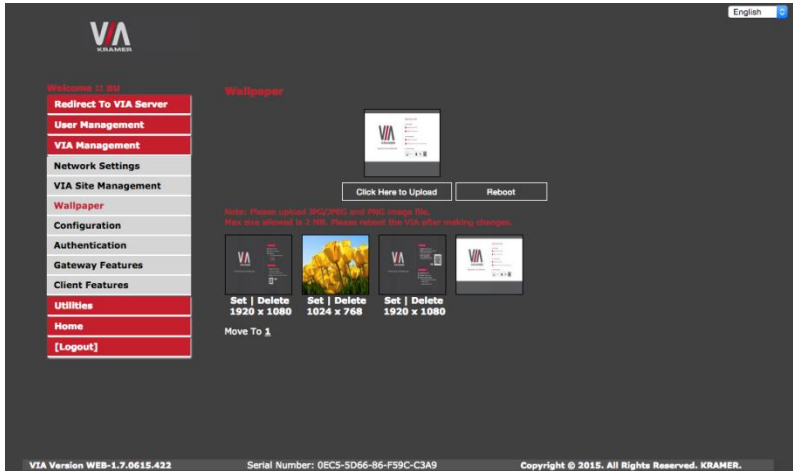
Contact your regional sales representative for more details about this solution.

4.8.1.3 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:

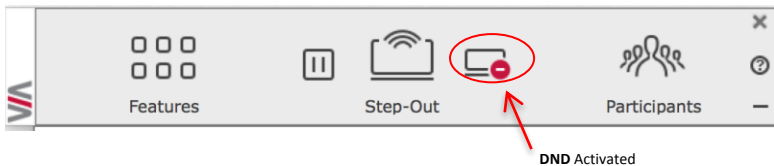
- Click on **Upload Wallpaper**
- Select Wallpaper (must be an image file – jpeg, png, bmp) from your system
- All previously uploaded wallpapers are saved and shown as below. To select one of them, click on “**Set**”.
- Then click on **Reboot**
The background image on **VIA Connect PRO** changes after rebooting



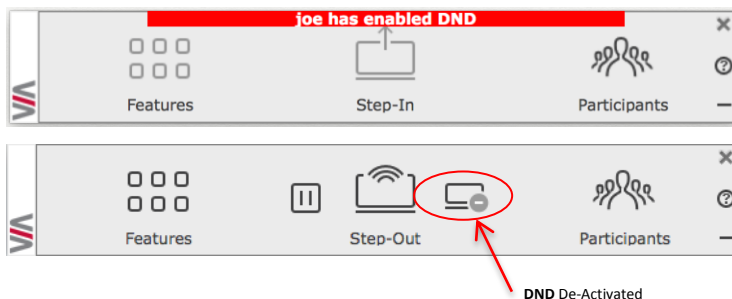
4.8.1.4 Configuration

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
- **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.

Facility to Activate/Deactivate Chat by Moderator – This option is offered to the Moderator of a session, to restrain users from chatting

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**
- **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:** Displays the date/time on the top right of the display

- **Show Room Name / Code on second Display also:** Supported only if there is a second display connected to the **VIA Connect PRO** unit. This feature allows you to show the Room Name on the wallpaper of the second display connected



The color of the text of the room name, the room code, the date and time to show on the background of the **VIA Connect PRO** wallpaper can also be changed in this Settings menu. Click on the square to select your preferred color.

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 will default 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 allow 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)

Language

- Select your preferred language for your VIA interface

Date and Time Format for Web Interface

- Select your preferred Date and Time format



Welcome !! 88

- User Management
- VIA Management
- Network Settings
- VIA Site Management
- Wallpaper
- Configuration
- Authentication
- Gateway Features
- Client Features
- Utilities
- Home
- [Logout]

Configuration

Configuration

- Activate System Log
- ▣ Enable Quick Client Access
- Activate Energy Saver Mode
- ▣ Do Not Disturb
- Facility to activate / deactivate chat by Moderator

Room Code, Room Name Settings

Show Room Name on wallpaper ☐ 10.0.1.8

■ Activate Room Code ☐

■ Always show on wallpaper ☐

■ Room Code Refresh Time(Minutes)

Show Date Time on wallpaper ☐ 24 hours format

Note:Room Name/Code will be shown only if they are active

iOS Mirror

■

Mirror Name

Max no of mirrors

Auto Power Off Timing

Activate ☐ Hrs Minutes

Language

Select Language

Date and Time Format for Web interface

Date Time Format


VIA Version WEB-1.7.0715.432

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4.8.1.5 Authentication

There are three different moderator modes:



Welcome !! 88

- Redirect To VIA Server
- User Management
- VIA Management
- Network Settings
- VIA Site Management
- Wallpaper
- Configuration
- Authentication
- Gateway Features
- Client Features
- Utilities
- Home
- [Logout]

Authentication

■ Activate Moderator Mode

Authentication Mode

☐ Database Based
 ☐ Active Directory
 ☒ Basic

VIA Version WEB-1.7.0615.422

Serial Number: 0EC5-5D66-86-F39C-C3A9

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Refer to [Section 4.7.6](#) for more details.

4.8.1.6 Gateway Features

Manage the features available on the VIA gateway

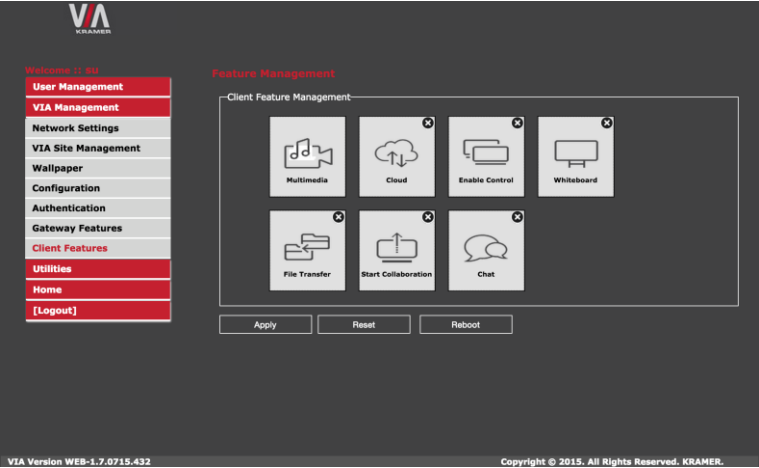
- Remove the features that you do not want to offer to the users. Click on the ⊗ on the icon you want to hide. Please note that any removed feature will be just hidden and not deleted. The space allocated to this specific icon will be left blank so you can manually reorganize the order of the icons by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



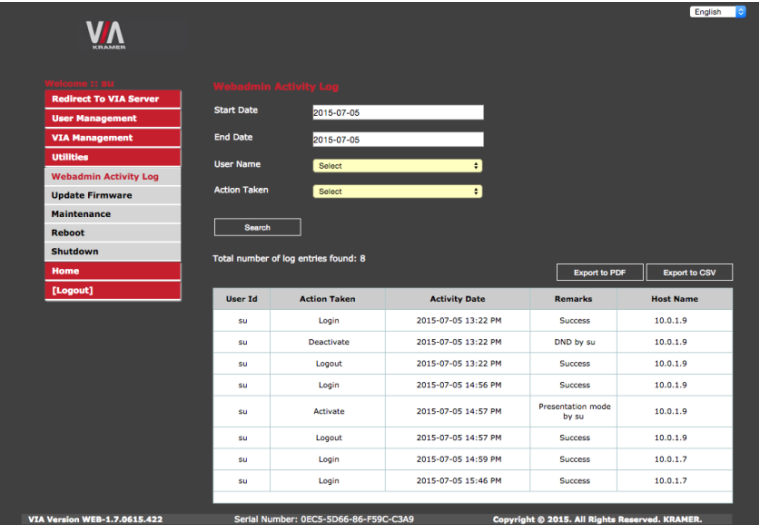
4.8.1.7 Client Features

Manage the features available on the VIA client:

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 will be just hidden and not deleted. The space allocated to this specific icon will be 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.



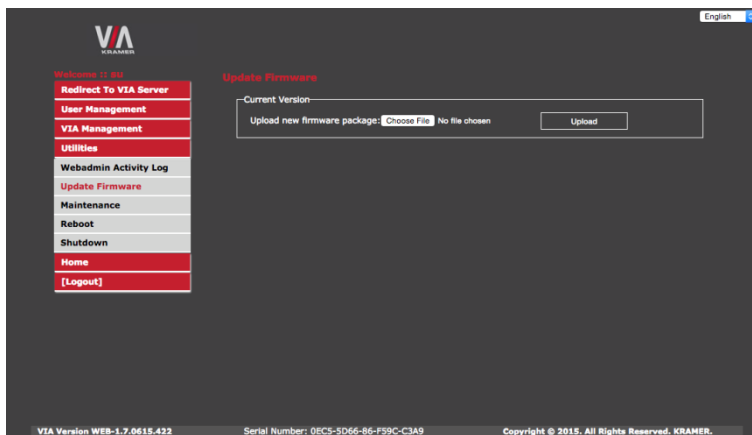
4.8.1.8 Webadmin Activity Log



4.8.1.9 Update Firmware

Click on **Utilities** on the left menu and then select **Update Firmware**.

Browse your computer to select the correct file downloaded for the VIA Connect PRO and click **Upload**. The process will start automatically:



Upon completion of the process, reboot the unit.

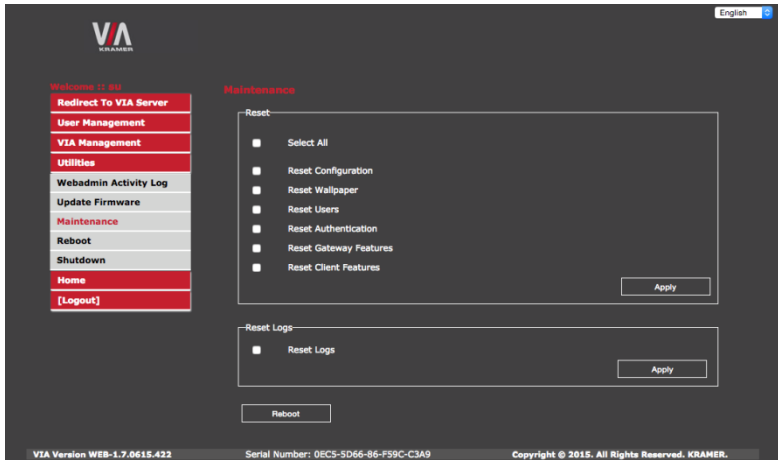


Note that the upload process and then the unit reboot may take a few minutes.

4.8.1.10 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.



4.9 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:



Wireless Connection

Bring your own device (BYOD) and join the session through wireless connection.



Enable Control

Give a participant control over the presenter's MAC® or PC laptops.



MultiMedia

Share uninterrupted full HD wireless video streaming (up to 1080p60) and photos.



Chat

Send an instant message to any other participant.



Cloud

Drag and drop files to the cloud to share instantly with everyone in the meeting.



Whiteboard

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



File Transfer

Share any size file with any number of participants.



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.



iOS Mirroring

Show any content from your iOS device on the main display.

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

- Google Drive 
- DropBox 
- SkyDrive 

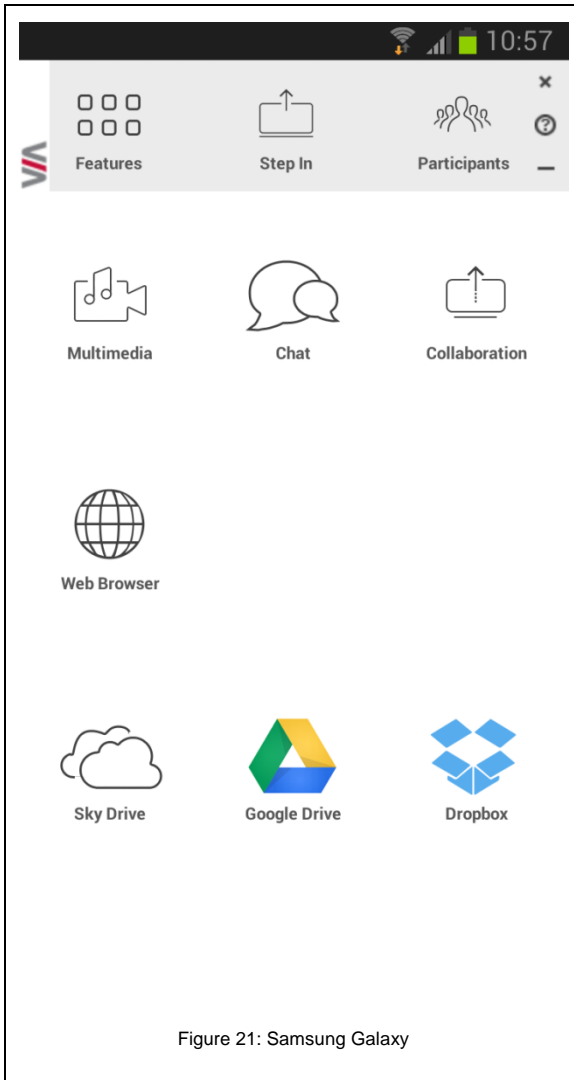
Link your cloud service (Google Drive, DropBox or SkyDrive) account to your VIA application and enjoy full access to your online documents.

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.



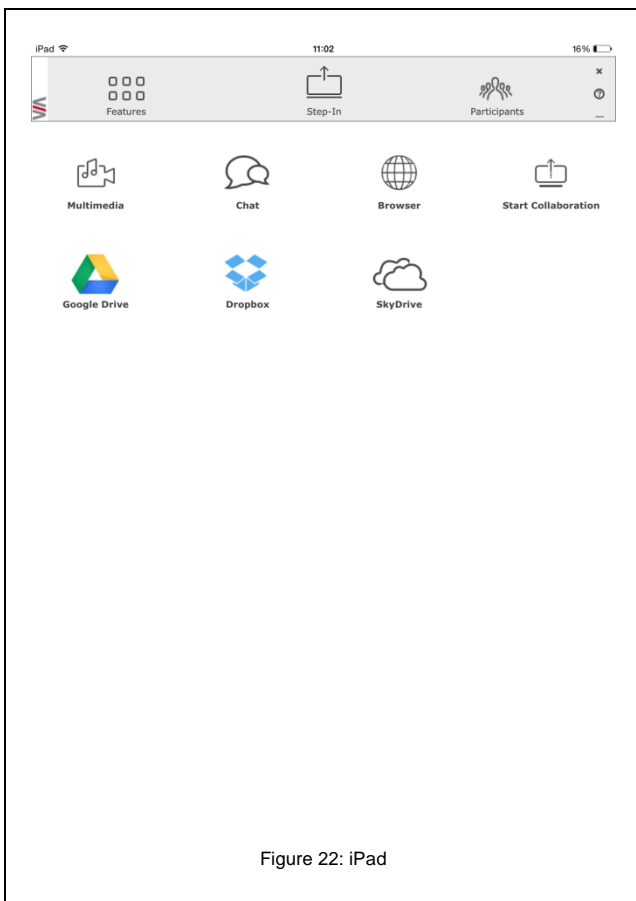


Figure 22: iPad

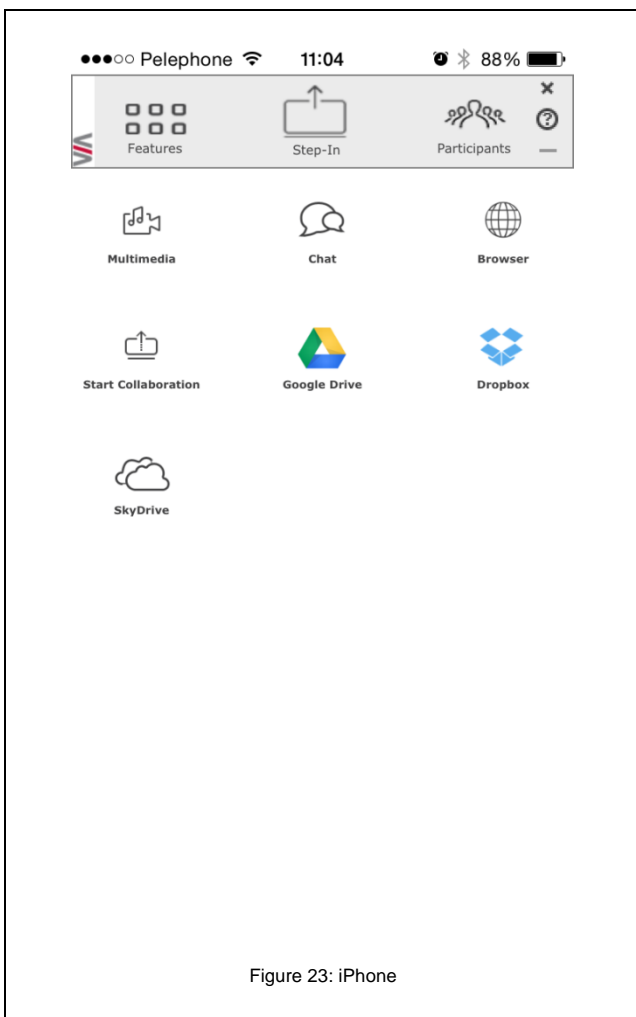


Figure 23: iPhone

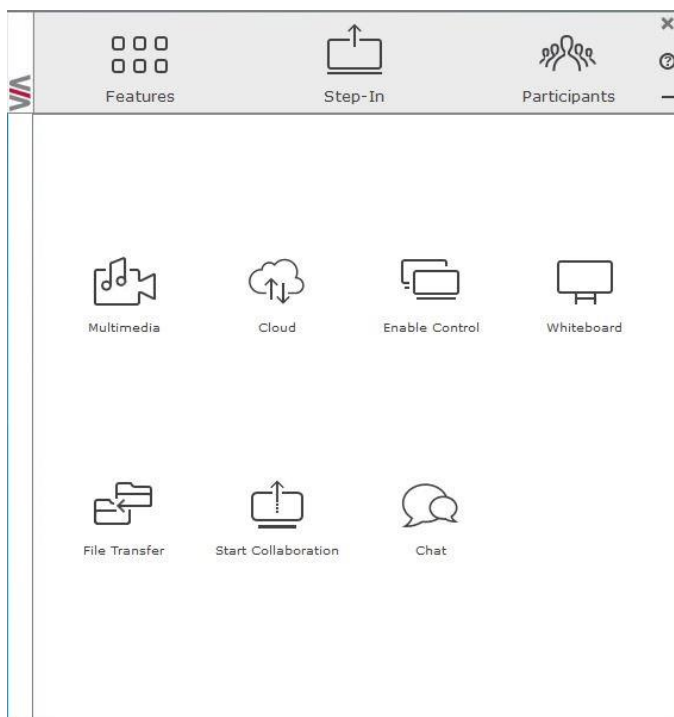


Figure 24: PC

5 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 http://www.kramerelectronics.com	

LIMITED WARRANTY

The warranty obligations of 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 Does this Coverage Last

Three years as of this printing; please check our Web site for the most current and accurate warranty information.

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, please visit our web site at www.kramerelectronics.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. 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 on 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.

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IF ANY PRODUCT TO WHICH THIS LIMITED WARRANTY APPLIES IS A "CONSUMER PRODUCT" UNDER THE MAGNUSON-MOSS WARRANTY ACT (15 U.S.C. §2301, ET SEQ.) OR OTHER APPLICABLE 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, please visit our Web site at www.kramerelectronics.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.



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

We welcome your questions, comments, and feedback.

Web site: www.kramerelectronics.com

E-mail: info@kramerel.com

CE



SAFETY WARNING

Disconnect the unit from the power supply before opening and servicing



P/N: 2900-300419



Rev: 3