

KN-5YHW

User Manual

**RecoMedia**

**Presentation made easy**

Thank you for purchasing this product.  
To receive latest update, please visit website  
[www.recomedia.co](http://www.recomedia.co)

# FEATURES

## Wireless Presentation

RecoMedia provides two modes of operation. The first mode allows presenter to project desktop content by pressing “show” button. The second mode allows a moderator to synchronise all presentations.

## HDMI/VGA Output

You can connect either the HDMI or VGA port to a projector.

## Recommendation of optimal screen resolution

Presenter will be recommended with optimal screen resolution which best matches the projector resolution for clear presentation quality

## Dual Band WiFi

Presenter can connect to RecoMedia at 2.4 GHz or 5 GHz WiFi.

## USB Host Support

You can connect and make presentation from USB flash drive.

## Web Viewer

Participants can view the current presentation using any device which supports web browser. Each presentation screen can be saved onto their device for offline viewing.

## Mobile Client

Users can also share photos, PDF documents and videos from smartphone or tablet device installed with RecoMedia mobile app.

## Session Control

You can perform Session Control by setting up WiFi password. Only users with WiFi password can join the presentation session.

# SAFETY INFORMATION

## SAFETY WARNINGS

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><b>CAUTION</b></p> <p>RISK OF ELECTRIC SHOCK</p> </div> 		<p>This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.</p>
			 <p>This symbol indicates important instructions accompanying the product.</p>

**WARNING :** To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

**CAUTION:** TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

- This apparatus shall always be connected to a AC outlet with a protective grounding connection.
- To disconnect the apparatus from the main socket, the plug must be pulled out from the main socket.

### CAUTION

- Do not expose this apparatus to dripping or splashing. Do not put objects filled with liquids on the apparatus.
- To turn this apparatus off completely , you must pull the power plug out of the wall socket.

## PRECAUTIONS

Ensure that the AC power supply complies with the power requirement printed on the label located at the back of the unit. This product can be installed by wall-mounting or placed horizontally on a suitable base, with enough space around it for ventilation (10~15 cm). Make sure that the unit is not covered blocking air flow for ventilation. Do not put the unit on projector or other equipment which may become hot. This product is designed for continuous use. To fully turn off the unit, by pressing the power button and disconnect the AC plug from the wall outlet. Unplug the unit if you intended to leave it unused for a long period of time.

During thunderstorms, disconnect the AC plug from the wall outlet. Voltage peaks due to lightning could damage the unit.

Do not expose the unit to direct sunlight or other heat sources. This could lead to overheating and cause the unit to malfunction.

Protect the product from moisture and excess heat or equipment creating strong magnetic or electric fields. Disconnect the AC plug from the wall outlet if the unit malfunctions. This product is not intended for industrial use. Condensation may occur if the product has been stored in cold temperatures. If transporting the unit in winter, wait approximately 2 hours until the unit has reached room temperature before using.

The battery used with this product contains chemicals that are harmful to the environment. Do not dispose of the battery in the general household trash. Do not expose the battery to excess heat, direct sunlight, or fire. Do not short circuit, disassemble, or overheat the battery. Danger of explosion if the battery is replaced incorrectly. Replace only with the same or equivalent type.

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# GETTING STARTED

## BEFORE READING THE USER'S MANUAL

Note the following terms before reading the user manual.

⇒ Icons used in this manual

Icon	Term	Definition
	Caution	Indicates a situation where a function does not operate or setting may be cancelled.
	Note	Indicates tips or instructions on the page that help you operate a function.

⇒ Safety Instructions and Troubleshooting

- 1) Be sure to familiarise yourself with the Safety Instructions before using this product. (See page 2)
- 2) If a problem occurs, check Troubleshooting. (See page 14)

⇒ Copyright

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## WHAT'S INCLUDED

Check for the supplied accessories shown below.



User Manual



Power Cord



Antenna



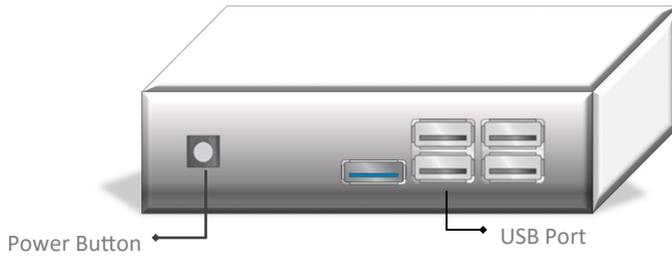
DC Adapter



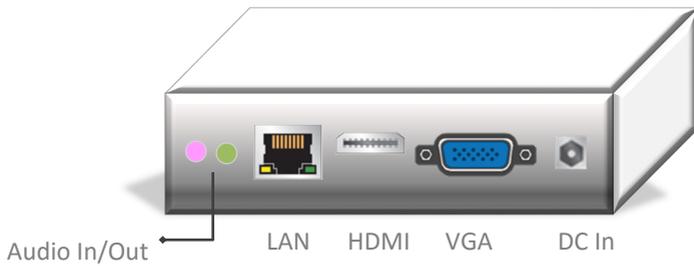
The appearance of the accessories may differ slightly from the illustration above.

# DESCRIPTIONS

## FRONT PANEL



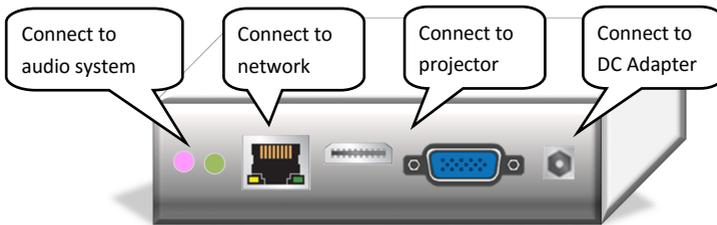
## BACK PANEL



## CONNECT TO PROJECTOR

Please follow below steps:

1. Plug in power jack to DC in;
2. Connect video output to projector using HDMI or VGA port;
3. Plug in RJ 45 cable to LAN port to provide internet access (optional);
4. Connect Audio Out to existing audio system (optional).

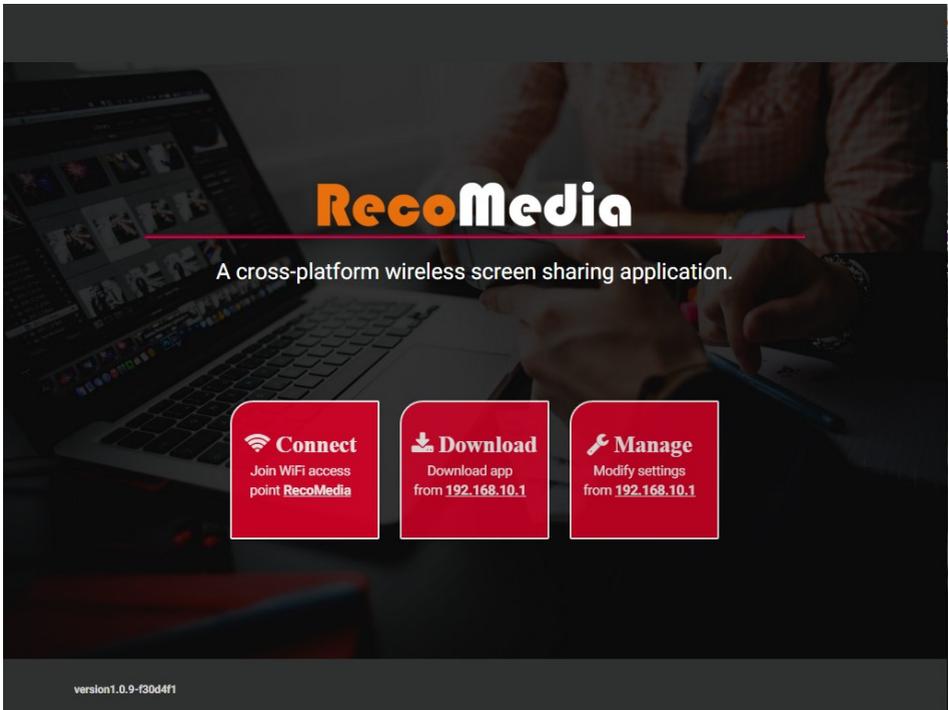


Before connecting to projector please power off the unit and projector, pull the plug out from wall outlet.

---

## STARTING UP

The unit can be powered up by pressing Power Button located at the front panel. The start up process may take around 1 minute. When the following screen is showed then the unit is ready to use.

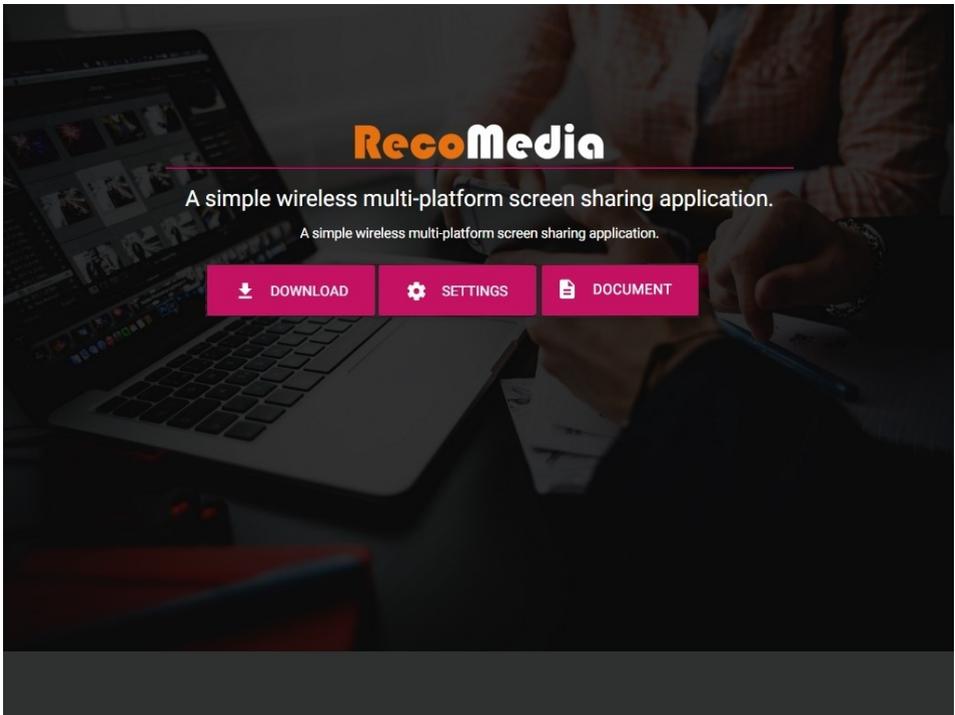


# SOFTWARE INSTALLATION

RecoMedia software is needed before a PC/MAC can use the unit to perform presentation wirelessly.

Please follow steps below for software installation:

1. Ensure that the computer is connected wirelessly to RecoMedia.
2. Launch your web browser and enter the IP address 192.168.10.1 .
3. Then the screen below will be displayed.
4. Click the “DOWNLOAD” button to download your software. The software is compatible with Windows 7 and above, and Mac OS X computers.
5. Once the downloading is completed, run the program to install RecoMedia software.
6. Once installed, RecoMedia icon will appear on desktop.



# CONDUCT PRESENTATION

There are two modes available for making presentation:

- ◆ Free and easy mode
- ◆ Moderated mode

## FREE AND EASY MODE

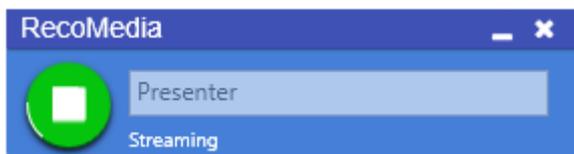
In this mode, the presenter can make presentation by clicking play button.

To run Free and Easy mode, please follow steps below:

1. Double click on RecoMedia icon to run RecoMedia software. Once RecoMedia software is activated you will see the following interface.



2. Click the play button to start sharing content. The status changes from "Connected to RecoMedia" to "Streaming".



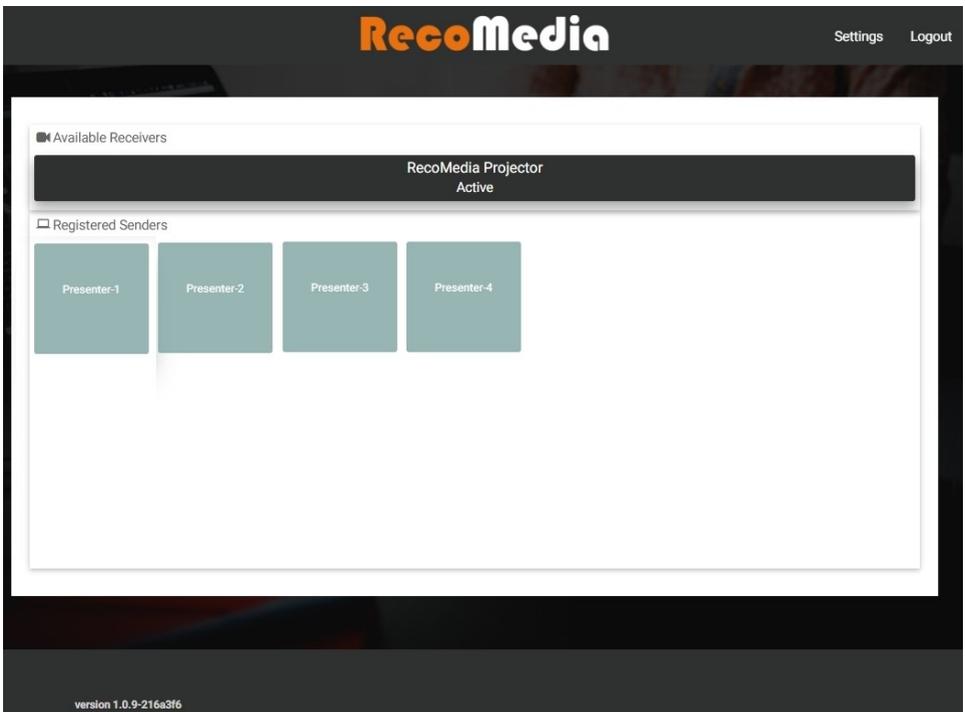
3. Click the stop button to stop sharing content.

## MODERATED MODE

In Moderated mode, presenters can be scheduled to make presentation by the administrator.

To run Moderated mode, please follow the steps below:

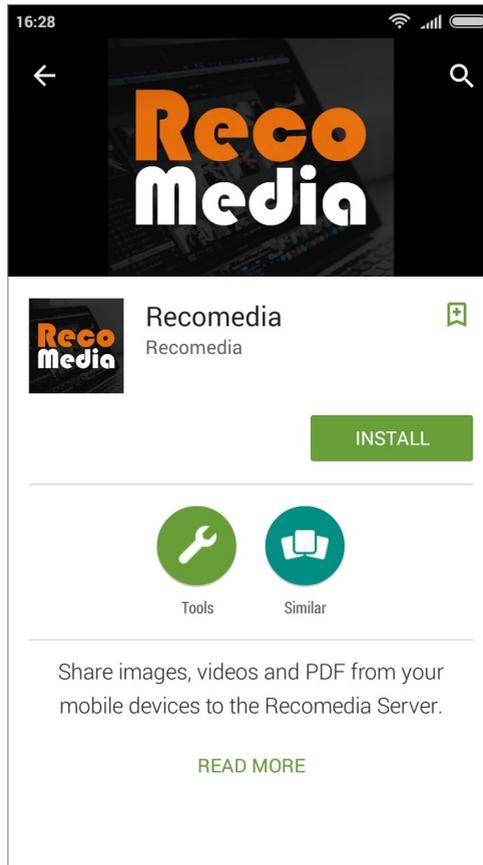
1. Launch your web browser and enter the IP address 192.168.10.1.
2. Click the “SETTINGS” button on the screen.
3. Enter admin username and password to login (default: username: admin; password: admin123).
4. All active users along with their streaming status are listed in the “Registered Senders” section as shown in figure below.
5. You can start or stop a content sharing session by clicking on a particular presenter icon.



# MOBILE APP

## MOBILE APP INSTALLATION

1. Launch your Google Play app on your Android mobile phone.
2. Search for RecoMedia.
3. Click on “INSTALL” for installing RecoMedia app.  
or
1. Install directly from this url <https://play.google.com/store/apps/details?id=com.evd.recomedia&hl=en>

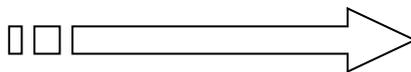
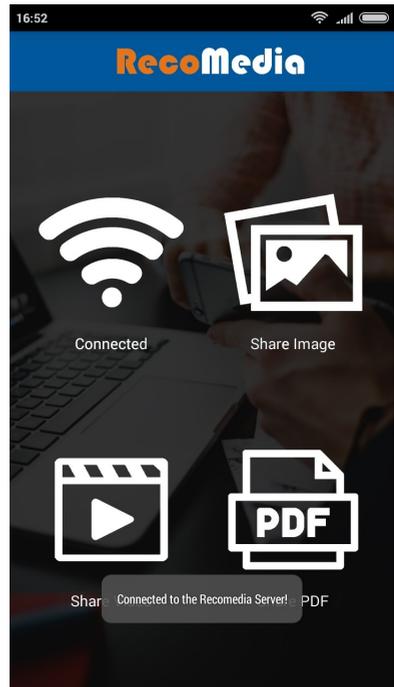
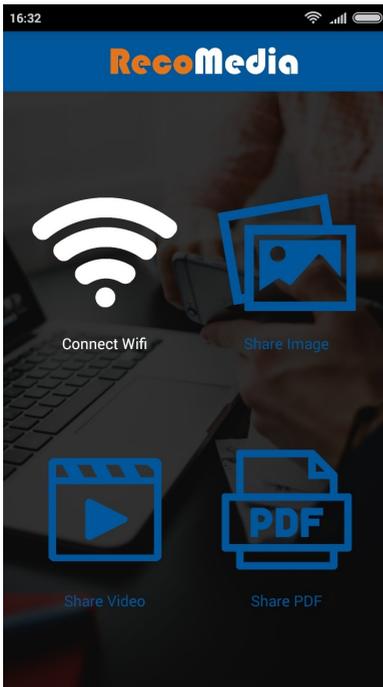


This app supports both the mobile phone and tablet running Android 4.4 (KitKat) and above.

## STARTING MOBILE APP

After installation, RecoMedia mobile app is ready to use.

1. Launch your RecoMedia mobile app by clicking RecoMedia icon.
2. RecoMedia screen as figure below will be showed .
3. Click the Connect WiFi  button to open the WiFi Setting.
4. Select and connect to the access point of RecoMedia.
5. Once connected , you can start sharing image, video and PDF files.



Once connected to RecoMedia,  
buttons will change to white colour.

## SHARING IMAGES

To share images please follow below steps:

1. Click the “Share Image” button on the screen.
2. Select an images from mobile phone gallery.
3. Click the “Share this image” button
4. To stop sharing, either click the “share” button again, or press the Back button on your devices.

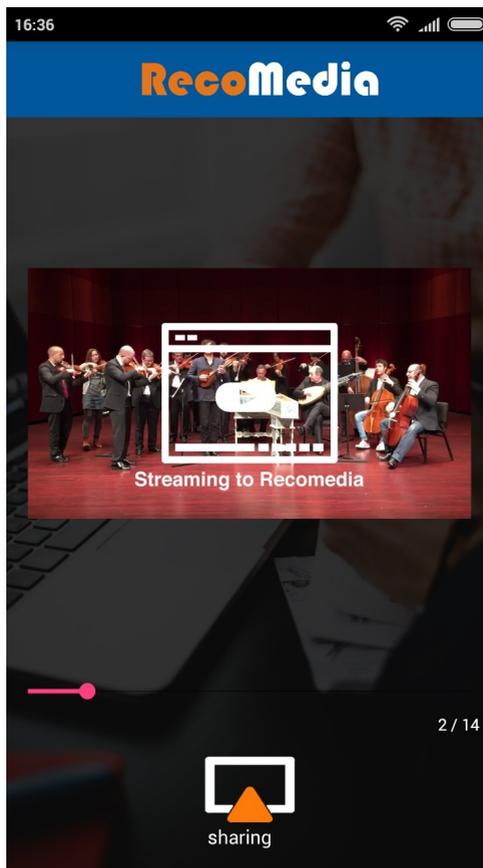


The image quality shown by the projector might be different from original source. As the projector might not be able to support HD.

## SHARING VIDEOS

To share videos please follow below steps:

1. Click the “Share Video” button on the screen.
2. Select a video from mobile phone gallery.
3. Click the “share this video” button.
4. To stop sharing, either click the “share” button again, or press the Back button on your devices.



Please make sure that Audio Out is connected to speaker.

## SHARING PDF DOCUMENTS

To share PDF documents please follow below steps:

1. Click the “Share PDF” button on the screen.
2. Select a PDF file from mobile phone gallery.
3. Click the “Share this PDF” button
4. To stop sharing, either click the “share” button again, or press the Back button on your devices.

10:36
...

# RecoMedia

## Science for Environment Policy

### Ultra-fine particles emitted by commercial desktop 3D printers

**February 2015  
Thematic Issue 48**

**Nanomaterials' functionality**

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Source: Stephens, B., Azimi, P., El Ochi, Z., et al (2013). Ultrafine particle emissions from desktop 3D printers. *Atmospheric Environment* 79, 334–339. doi:10.1016/j.atmosenv.2013.06.050

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To cite this article please use: "Science for Environment Policy", European Commission DG Environment News Alert Service, edited by SC2, The University of the West of England, Bristol

1. <http://dx.doi.org/10.1016/j.atmosenv.2013.06.050>

**desktop three-dimensional (3D) printers**, available for use in offices and homes, can release between 20 and 200 billion ultra-fine particles (UFPs) per minute, finds new research. UFPs may pose a risk to health, and the study's authors recommend caution when operating 3D printers inside unventilated or unfiltered indoor environments.

**The advent of low-cost commercial desktop 3D printers**, used to turn computer based designs into physical objects, has seen 3D printing move out of research laboratories and industrial applications into the home and office. Most desktop 3D printers work by feeding a solid plastic polymer into a computer-driven heated nozzle through a process called fused deposition modeling (FDM), that lays down material in layers.

The nozzle deposits a thin layer of molten polymer on a surface. As the plastic hardens, the next layer is added, slowly building a solid 3D object. Two plastic polymers are commonly used for this: acrylonitrile butadiene styrene (ABS) or polylactic acid (PLA). ABS requires higher nozzle temperatures (220 °C) than the biodegradable form of PLA (180 °C). Similar industrial processes have been shown to emit relatively high levels of gases, volatile organic compounds and fine particles. Nano-sized UFPs – particles smaller than 100 nanometres (nm) – may be of particular importance to health.

Most desktop 3D printers lack filter or ventilation accessories and are likely to be used in enclosed spaces, such as offices, with little additional ventilation. To date there has been no research on the UFP emissions of these printers.

The new study measured UFP emissions from FDM desktop 3D printers in a commercial office space. The researchers took UFP measurements in an enclosed office with two printers using PLA and two identical printers using ABS, each operating for about 20 minutes. They analysed the data and compared it to other domestic sources of UFPs. The estimated emission rates for both PLA and ABS were high, with PLA emitting around 20 billion particles per minute, and 200 billion particles per minute for ABS.

Compared to other domestic sources of UFPs, the 3D printing using PLA had a similar UFP emission to cooking using an electric frying pan. Using ABS resulted in UFP emissions similar to those from grilling food on a gas or electric stove at low power.

UFPs are able to deposit in the lungs and always of the head, where they can travel through the olfactory nerve to the brain, and studies have shown that UFPs may be an important part of the toxicity emitted from melting plastics. A number of studies have also shown that high UFP concentrations, such as from traffic pollution, are associated with adverse health effects, such as asthma, stroke and even decreased lifespan due to heart and lung diseases.

The authors highlight that the chemical identity of the UFP itself is likely to be important with regards to safety. For example, while ABS has been shown to have toxic effects, PLA is considered safer, and PLA nanoparticles are widely used in drug delivery. They note a couple of limitations in their methodology. Firstly, they did not determine the chemical composition of the UFPs. This is important because small amounts of ABS and PLA can be broken down into other types of chemicals with different or unknown health risks when heated. Secondly, the effects of particles sticking together or growing by condensation were not accounted for, which could affect measurements.

While the actual risk to health remains unclear and further research is needed, on the balance of the evidence, the researchers conclude that because of the large emission of UFPs by 3D printing instruments, users should be cautious when operating them inside unventilated or unfiltered indoor environments. Under the **General Product Safety Directive** manufacturers have a responsibility to provide consumers with information to assess a product's threat – especially when not obvious – and to take necessary measures to avoid such threats. In the case of 3D printers this could be by providing enclosed and filtered designs.

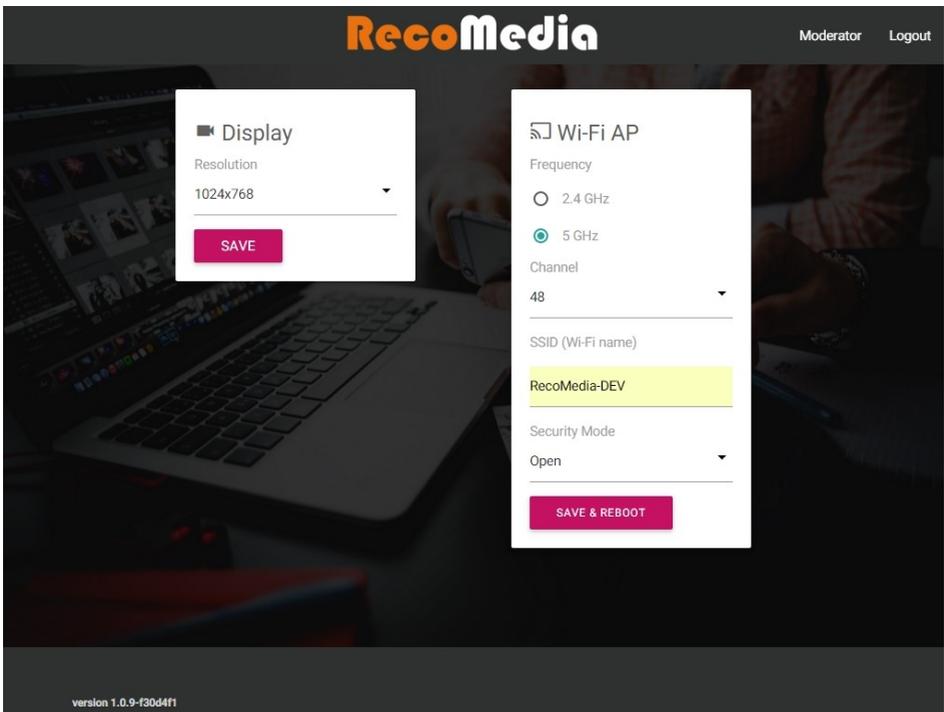
sharing ...



Microsoft PowerPoint, Excel, and Word documents can be saved as PDF format and present with RecoMedia.

# CONFIGURATION

1. Launch your web browser and enter the IP address of 192.168.10.1.
2. Click the “SETTINGS” button on the screen.
3. Enter admin username and password to login (default: username: admin; password: admin123) as shown/ in Figure 11.
4. Click the “Settings” button located on the top right corner.
5. The RecoMedia setting page shall appear as figure below .
6. Perform either the Display or WiFi configuration:
  - ◆ Change the WiFi AP settings such as the frequency band, channel number, SSID name and encryption mode.
  - ◆ Change the Resolution of the display device connected to the RecoMedia wireless media box

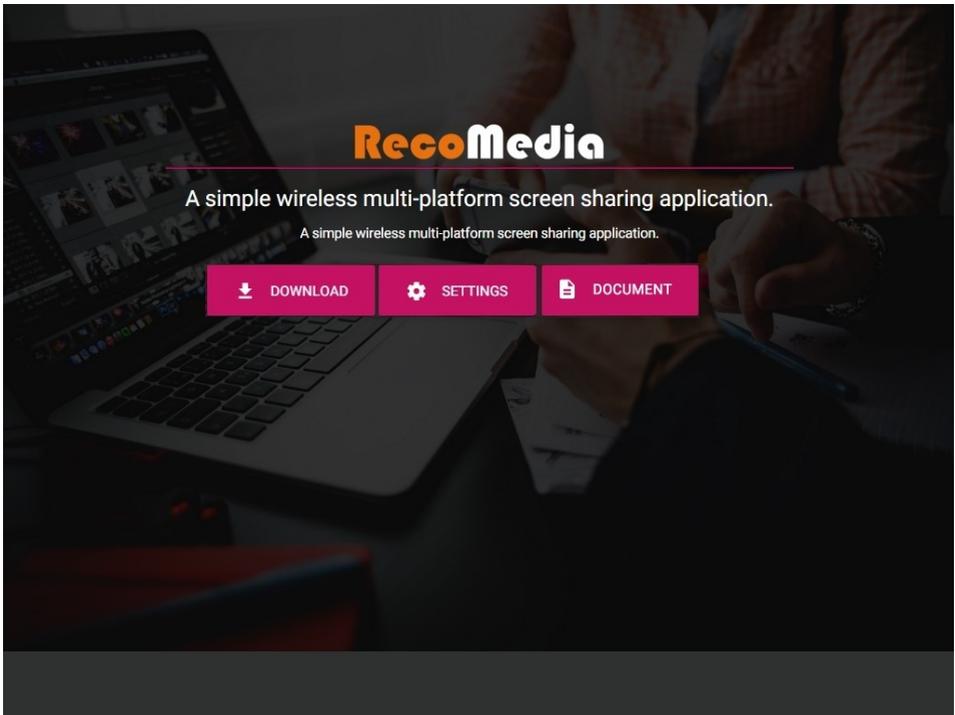


It is strongly recommended to select a less congested WiFi channel.

# CONTENT MANAGEMENT

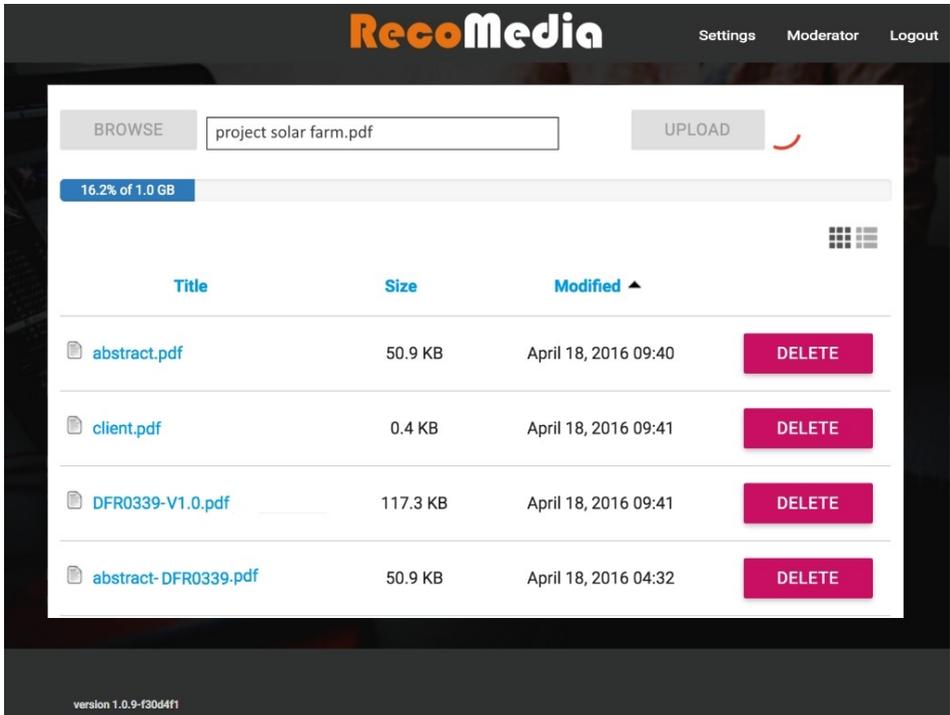
RecoMedia allows files such as teaching note, presentation slides, meeting minutes, drawing, etc. to be stored and shared. To upload contents to RecoMedia, please follow the steps below:

1. Launch your web browser and enter the IP address 192.168.10.1.
2. Click the “SETTINGS” button on the screen.
3. Enter admin username and password to login (default: username: admin; password: admin123).
4. Click the “Document” button located on the top right corner.
5. Document Manager page shall appear as figure below.
6. Click the  and  button to show the documents in Grid or List mode respectively.



## UPLOAD FILES

1. Click the “Browse” button to choose the file from your computer to be uploaded to the RecoMedia.
2. Click the “Upload” button and wait till the uploading process completed.



The screenshot shows the RecoMedia interface. At the top, there is a navigation bar with the RecoMedia logo, and links for Settings, Moderator, and Logout. Below the navigation bar, there is a file upload section with a "BROWSE" button, a text input field containing "project solar farm.pdf", and an "UPLOAD" button. A progress bar indicates "16.2% of 1.0 GB". Below the progress bar, there is a table listing files with columns for Title, Size, and Modified. Each row has a "DELETE" button.

Title	Size	Modified ▲	
 abstract.pdf	50.9 KB	April 18, 2016 09:40	
 client.pdf	0.4 KB	April 18, 2016 09:41	
 DFR0339-V1.0.pdf	117.3 KB	April 18, 2016 09:41	
 abstract-DFR0339.pdf	50.9 KB	April 18, 2016 04:32	

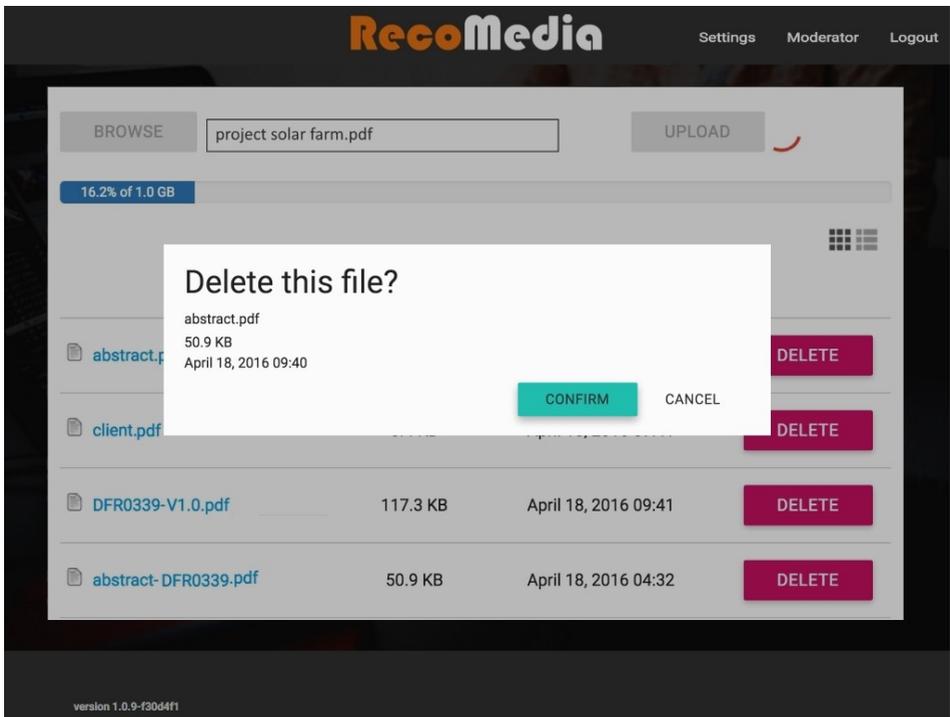
version 1.0.9-f30d4f1



Only 1 GB of storage space is available.

## DELETE FILES

1. Click the “Delete” button to remove any document from the RecoMedia .
2. A dialog will appear for your confirmation before the document is removed.
3. Click “CONFIRM” button to delete the file.



The screenshot displays the RecoMedia content management interface. At the top, the RecoMedia logo is on the left, and navigation links for Settings, Moderator, and Logout are on the right. Below the header, there is a file upload section with a 'BROWSE' button, a text input field containing 'project solar farm.pdf', and an 'UPLOAD' button. A progress bar indicates '16.2% of 1.0 GB'.

A modal dialog box is centered on the screen with the title 'Delete this file?'. It contains the following information:

- File name: abstract.pdf
- Size: 50.9 KB
- Timestamp: April 18, 2016 09:40

At the bottom of the dialog are two buttons: 'CONFIRM' (highlighted in teal) and 'CANCEL'. The background interface shows a list of files with columns for file name, size, and timestamp, and a 'DELETE' button for each row.

File Name	Size	Timestamp	Action
abstract.pdf	50.9 KB	April 18, 2016 09:40	DELETE
client.pdf			DELETE
DFR0339-V1.0.pdf	117.3 KB	April 18, 2016 09:41	DELETE
abstract-DFR0339.pdf	50.9 KB	April 18, 2016 04:32	DELETE

version 1.0.9-f30d4f1



Once the document is removed, it is impossible to recover from RecoMedia.

## DOWNLOAD FILES

1. Launch your web browser and enter the IP address of 192.168.10.1
2. Click the “DOCUMENT” button on the screen.
3. The RecoMedia Document Download page shall appear as figure below.
4. Select files and click “CONFIRM” button to download.

The screenshot displays the RecoMedia web interface. At the top, the logo "RecoMedia" is visible, along with navigation links for "Settings", "Moderator", and "Logout". Below the header is a search bar and a grid icon. The main content area shows a table of documents with columns for "Title", "Size", "Modified", and "Uploaded". A modal dialog box is overlaid on the table, asking "Download this file?" and providing details for the selected file: "project solar farm.pdf", "50.9 KB", and "April 18, 2016 09:40". The dialog includes "CONFIRM" and "CANCEL" buttons.

Title	Size	Modified	Uploaded
project solar farm.pdf	50.9 KB	April 18, 2016 09:40	Administrator
project abstr			Administrator
project costin			Administrator
project sched			Administrator
project meeting-1 minutes.pdf	16.4 KB	April 18, 2016 04:48	Administrator
project meeting-2 minutes.pdf	77.2 MB	April 25, 2016 01:49	Administrator
project meeting-3 minutes.pdf	50.9 KB	April 26, 2016 03:38	Administrator

Download this file?

project solar farm.pdf  
50.9 KB  
April 18, 2016 09:40

CONFIRM CANCEL

version 1.0.9-f30d4f1

# TROUBLESHOOTING

Before requesting for service, please check the following.

⇒ The unit will not turn on.

- ◆ Please make sure that the power supply is connected. If the problem persists please disconnect all power source and wait for 5 minutes before restarting the unit.

⇒ A function does not work when the button is pressed.

- ◆ Please disconnect all power source and restart the unit.

⇒ The projector is not showing presentation content.

- ◆ Please make sure that the project is connected to RecoMedia according to instruction provided in page 8.
- ◆ Please make sure that the presenter is connected to RecoMedia according to instruction provided in page 11.

⇒ Error message “Failed to connect” or “Cannot locate controller”

- ◆ Please make sure you have connected to the right WiFi AP with name as shown on the welcome page.
- ◆ Please ensure you have not changed the IP address and port number of the Controller. The values should be:

Controller IP address: 192.168.10.1

Controller port number: 2222

⇒ Cannot see RecoMedia WiFi AP from the list of WiFi AP.

- ◆ RecoMedia WiFi AP is most probably running at 5GHz frequency band while your computer WiFi is operating at 2.4GHz.
- ◆ Use a newer computer which supports 5GHz
- ◆ Go to the Section on Using Admin Mode to configure the RecoMedia wireless media box to operate at 2.4GHz. Restart the unit and you should be able to see RecoMedia WiFi AP.

# PRODUCT SPECIFICATIONS

Processor	2.16 GHz Dual Core CPU
Memory	2GB RAM
Network	IEEE 802.11 a/b/g/n 2.4GHz/5GHz wireless network IEEE 80.2.3 100/1000 Mbps Ethernet
Operating System	Microsoft Windows 7, 8 and 10
	Mac OS X 10.10 Yosemite
Browser	Google Chrome 43 (Recommended) Opera 35 Internet Explorer 11 Safari 8.0.8 (downloading RecoMedia app)
IP Configuration	Automatic: DHCP; Manual: Static IP Address
Management	Web-based configuration
Support Output Resolution	VGA: 800 x 600; 1024 x 768; 1280 x 800 HDMI: 1280 x 720; 1920 x 1080
Power	DC 12V 3A
Interfaces	VGA, HDMI, RJ-45, USB x 5, Power Jack, Audio In, Audio Out, Power Button
Mechanical	Dimension: 133(W) x 125 (D) x 40(H) mm

Designed and fabricated by:



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