

A background network diagram consisting of several circular nodes connected by lines, rendered in a light blue color against a dark blue background. One node is a starburst shape, while others are simple circles.

AirCastProTM

Wireless Print Solution for iOS[®]

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WHAT IS AIRCASTPRO™ ?

AirCastPro™ allows you to utilize printers from your iOS® device that would not otherwise be accessible. Setup and configuration is easy– connect your printer(s), power it up, and connect to the “AirCastPro” wifi hotspot. AirCastPro™ can be remotely configured with any computer, phone, or tablet that can use a modern web browser. AirCastPro™-connected printers can also be shared with your Mac, Windows, or Linux computers.

AirCastPro™ is specifically tailored to AirPrint® enable DNP, Mitsubishi, Sinfonia, and Hiti dye-sub printers.

AIRCASTPRO™ FEATURES AND SPECIFICATIONS

- Easy and Intuitive
- Built-in Hotspot Access Point
- Monitor and administrate remotely, on any device that can use a modern web browser.
- DNP, Mitsubishi, Sinfonia, and Hiti printers supported.
- Printer Pools with any mix of models/manufacturer.
- Internet through Wifi or 10/100 Ethernet
- Will Not Distort Images to Fit Media
- Supports AirPrint Copy Printing
- Small, Compact Footprint
- Share with your Mac, Windows, or Linux computer.
- 4 built-in USB 2.0 ports.



GETTING STARTED

POWER UP

Your AirCastPro™ comes with a 5v micro USB power supply. Plug the micro USB end into the AirCastPro™ unit. There is no power switch on the unit itself and will power on once it is plugged in.

CONNECT YOUR PRINTER(S)

Use the available USB ports to connect your printers.

CONNECTING TO THE AIRCASTPRO™ HOTSPOT

Once you have powered your AirCastPro™ unit, its hotspot broadcast should be detectable after about 15 seconds after powering the unit on. Use the device of your choice to connect to your AirCastPro™ unit and look for the “AirCastPro” hotspot in your wifi connection setup:

SSID: **AirCastPro**

Password: **aircastpro**

Once connected, use a web browser to go to this address:

AirCastPro.local

or

192.168.4.1

CONNECT TO OUTSIDE WIFI NETWORK

You can connect AirCastPro™ to your wifi network and provide internet access through the AirCastPro™ built-in hotspot. To connect to your wifi network, click the edit icon next to the Wifi Status bar (top-left of the Administration page). Select your Wifi network from the provided list or enter your Wifi network's SSID in the provided field. Enter your Wifi network's password in the provided field. Click the Save button to save your changes.

ETHERNET PORT (OPTIONAL)

You can connect AirCastPro™ to your router by using the built-in ethernet port. This will allow AirCastPro™ to connect to your network and allow network/internet access to the through its built-in hotspot.

Connecting AirCastPro™ to your network through its ethernet port is not required for use.



ADMINISTRATING AIRCASTPRO™

FIRST TIME CONNECTION

The AirCastPro™ landing page provides two links:

- **Administration Link:** Access to AirCastPro™ settings
- **Documentation Link:** Access to the html version of this guide

Use the Administration link to set up your AirCastPro™ unit.

When you connect for the first time, you will need to enter your name and email address to activate AirCastPro™. You will only need to do this once.

After activating AirCastPro™, you will be directed to the AirCastPro™ General Settings page.

SETTING UP YOUR PRINTER

See the Supported Printer List for printer compatibility.

Make sure you have connected your printer to your AirCastPro™ unit and have the printer turned on.

Use the plus button below the “Printers and Pools” listbox to discover and set up your printer.

AirCastPro™ will attempt to detect your printer. Locate and select your printer from the discovery list. Setting up a network printer is identical to a USB connected printer.

After selecting your printer, press the continue button. You will need to select the proper driver for your printer.

AirCastPro™ will try to narrow the list of drivers. Some printers provide limited information and can make it more difficult to automatically detect the correct driver. If AirCastPro™ does

not list the correct driver for your printer, use the “show all drivers” link to browse a list of all available drivers.

Select the driver for your printer and press the continue button.

Next, you can set your printer’s options, such as paper size, color correction, and other printer specific options by using the two pop-up menus provided:

Options Pop-up: Lets you select a specific printer option.

Option Value Pop-up: Lets you set the value for the selected option.

Once you select and set your printer’s option, press the finish button. Your printer should now show in the “Printers and Pools” list, ready for use.

PRINTERS AND POOLS CONTROLS

Directly below the Printer and Pools listbox, there are 5 control options:

- **Add Printer or Pool:** Use this control to add a new printer or create a new printer pool. If no printers have been added, using this control will default to adding a new printer. If at least one printer exists, this control will give the choice of adding a printer or creating a printer pool.
- **Remove Printer or Pool:** Use this control to remove a selected printer or pool in the Printer and Pools listing.
- **Edit Printer or Pool:** Use this control to edit the options of a selected printer or to add/remove printers from a pool.
- **Pause Printer or Pool:** Use this control to pause/resume printing for a selected printer or pool. Pausing a printer or pool may temporarily remove pending jobs from the printer queue. Resuming a printer or pool will resume printing and add jobs back into the main printer queue.
- **Refresh List:** Use this control to refresh the Printer and Pools list.

PRINTER QUEUE

The Printer Queue shows pending print jobs for all printers and pools, showing the job ID, date, and time. The job ID contains the name of the printer or pool it will use.

The Printer Queue has 2 controls directly below the Printer Queue list:

- **Cancel Job:** Use this control to remove a selected job.
- **Cancel All Jobs:** Use this control to cancel all jobs in the Printer Queue list.

PRINTER POOLS

A Printer Pool is a collection or grouping of printers that work together to expedite print jobs as quickly and efficiently as possible through a process called load balancing.

When printing to a pool, the print will be automatically sent to a printer that is available or has the least amount of jobs in its queue. A Printer Pool will also redirect jobs away from a printer that has stopped because of an error (paper jam, out of paper, etc), keeping your workflow moving. A Printer Pool will look and act just like a normal printer to your application. Even though a printer may be part of a Printer Pool, you can still select and use any printer outside of the pool.

You can add any printer to a pool; it does not need to be the same make or model as other printers in the pool. You should, however, be sure that your printers in a pool are set to the same page output (print size). The first printer added to a pool should be the fastest of your printers– it will receive priority over other printers in your pool.

Creating a Printer Pool requires at least one printer set up in AirCastPro™. If at least one printer has been set up, pressing the Add Printer or Pool control will bring up an option to create a printer pool:

- Press the Printer Pool Setup
- Use the Printer Selection pop-up menu to select a printer.
- Use the Add Printer button to add it to your pool.

- Use the Remove Printer button (directly below the Selected Printers for Pool list) to remove a printer from your pool.
- Press the Continue button once you have added the desired printers to your pool.
- If you wish to add printers to an existing pool, select the pool from the Available Printer Pools list.
- If you wish to create a new pool, select the Create a New Printer Pool option and enter a name for your new Printer Pool.
- Press the Finish button to create your Printer Pool.

Your new Printer Pool will now show in the Printers and Pools list, with the [Pool] tag added to its name.

BUILT-IN HOTSPOT

AirCastPro™ broadcasts its own wireless hotspot, allowing you to connect directly to the unit through wifi. Using the AirCastPro™ hotspot does not require internet access. You can change the SSID (hotspot name) and the password. To change the hotspot SSID or password, press the edit icon and make the changes to your hotspot in the Hotspot Name and Password window. You will need to reboot your AirCastPro™ unit for changes to take effect.

MDNS/AUTO-DISCOVERY

AirCastPro™ complies with mDNS standards, allowing you to easily find and connect to the AirCastPro™ unit on your network. By default, AirCastPro™ will broadcast its address as “AirCastPro.local”. This is much easier to remember than an IP address– you can still connect directly by using IP address if you wish– and unlike an IP address assigned by your router, will not change.

You can change the mDNS name by pressing the edit icon and using the mDNS Discoverable Name window to make your changes. You will need to reboot your AirCastPro™ unit for changes to take effect.

POWER OFF/REBOOT AIRCASTPRO™

There are instances where you will need to reboot or turn off your AirCastPro™ unit. You can easily do this by using the power button, located in the upper-right corner of the General Settings page.

DO NOT power down your AirCastPro™ by unplugging the unit. Use the Shut Down option in the Power window.

WIFI/ETHERNET ADDRESS DISPLAY

AirCastPro™ will show your Wifi hotspot IP address and your Ethernet IP address in the General Settings page. These addresses cannot be changed manually.

TIME AND DATE

AirCastPro™ displays the time and date in the General Settings window. This can be helpful when attempting to track a particular print job sent to your Print Queue.

To set the time and date, press the edit icon and use the options available in the Set Time and Date window.

SUBSYSTEM CONTROLS

There may be instances where it may be necessary to restart the printing subsystem to clear a problem print or other potential errors. Subsystem Controls contain two options:

1. **Restart the printing subsystem:** This will restart the printing subsystem without the need to restart the AirCastPro™ unit. Use this to clear minor issues such as printers not immediately broadcasting over the network or clearing problem job(s). This is a non-destructive option and will retain queued prints and configured printers.
2. **Reset the printing subsystem:** This will completely reset the printing subsystem, removing configured printers and queues from your settings. Use this as a quick system-reset option or to clear problematic printers and queues.

PRINTER SHARING

Printers attached to AirCastPro™ can be shared with your Windows and Mac OS computers.

Print Sharing With Windows

1. Connect to the AirCastPro hotspot.
2. Install the printer driver of the printer you wish to connect.
3. Go to the Start Menu>Settings>Devices>Printers & Scanners
4. Click the “Add Printer or Scanner” option
5. Select the printer from the provided list and click “Add Device”

Print Sharing With Mac OS

1. Connect to the AirCastPro hotspot.
2. Install the printer driver of the printer you wish to connect.
3. Go to the Apple Menu and select System Preferences.
4. Click the “Printers & Scanners” option.
5. Choose your printer from the list provided and click the “Add” button in the lower-right of the window.

ADMINISTRATOR PASSWORD PROTECTION

You can password protect the Administration page by clicking the “Password Protect Settings” option located at the bottom of the Administration Page. Enter your password, verify your password, and save your settings.



HELPFUL TIPS

There are a few easy ways to help streamline your workflow with AirCastPro™. Understanding Printer Instances and Printer Pools are incredibly effective ways to simplify your workflow.

WHAT IS A PRINTER INSTANCE?

Think of a printer instance as a variation of your existing, physical printer that appears to your iOS® device as its own separate, individual printer. There is no limit to how many instances of a printer can be created. This can be useful if your printer is capable of different options without having to change out paper. For example:

Your printer is capable of printing both 4x6 and 2x6 prints without changing the printer's media.

Your printer is capable of printing different finishes (Glossy or Matte) without changing the printer's media.

Your printer is capable of automatically printing multiple prints (4x6*2, 2x6*4, etc) without changing the printer's media.

Your printer may offer many other options. You can use the Printer Instance method to best leverage your printer to simplify your workflow.

CREATING A PRINTER INSTANCE

In the following example, we will create two instances from a single physical printer. We will create an instance that will print 4x6 prints and another that prints 2x6 prints.

1. Create a 4x6 Printer Instance.

- Set up your printer using the Add Printer button in the General Settings window.
- Be sure to set your output to 4x6. Name this printer to reflect the print size (ex.: "Printer1 4x6").

2. Create a 2x6 Printer Instance.

- Using the Add Printer button in the General Settings window, select the same physical printer as used for the 4x6 printer instance.
- Be sure to set your output to 2x6. Name this instance to reflect the print size ex.: “Printer2 2x6”).

You should now have 2 printers listed in the Printers and Pools list– one that will print 4x6 prints and the other 2x6 prints– both of which that will use a single, physical printer.

PRINTER INSTANCES AND POOLS

Using the Printer Instances method, you can create Printer Pools to achieve the same basic purpose of creating an instance of a printer, but also leveraging several printers as well:

You can create a Printer Pool to handle a specific print size (ex.: 4x6 or 2x6 prints) or other specific options.

Printers/Printer Instances can be a member of one or more Printer Pools. You can mix and match as you see fit.



APPENDIX: SUPPORTED PRINTERS

AirCastPro™ has been tested with the professional photo printers listed below.

DAI NIPPON PRINTING

Dai Nippon Printing DS40
Dai Nippon Printing DS80
Dai Nippon Printing DS80DX
Dai Nippon Printing DS620
Dai Nippon Printing DS820
Dai Nippon Printing DSRX1
Dai Nippon Printing SL10

MITSUBISHI PRINTERS

| | | |
|-----------------------|------------------------|-----------------------|
| Mitsubishi CP-3020D | Mitsubishi CP-9550DW-S | Mitsubishi CP-D80DW |
| Mitsubishi CP-3020DA | Mitsubishi CP-9550DZ | Mitsubishi CP-D90DW |
| Mitsubishi CP-3020DAE | Mitsubishi CP-9600DW | Mitsubishi CP-D70DW |
| Mitsubishi CP-3020DE | Mitsubishi CP-9800D | Mitsubishi CP-D707DW |
| Mitsubishi CP-3020DU | Mitsubishi CP-9800DW | Mitsubishi CP-K60DW-S |
| Mitsubishi CP-3800DW | Mitsubishi CP-9800DW-S | Mitsubishi P93D |
| Mitsubishi CP-9500DW | Mitsubishi CP-9800DZ | Mitsubishi P95D |
| Mitsubishi CP-9550D | Mitsubishi CP-9810D | |
| Mitsubishi CP-9550DW | Mitsubishi CP-9810DW | |

SINFONIA PRINTERS

Sinfonia CHC-S6145/CS2
Sinfonia S2145/S2

HITI PRINTERS

| | |
|------------|------------|
| Hiti P520L | Hiti P720L |
| Hiti P525L | Hiti P750L |

SONY PRINTERS

| | | |
|---------------|---------------|---------------|
| Sony UP-DP10 | Sony DPP-EX7 | Sony UP-CR10L |
| Sony UP-DR150 | Sony UP-DR100 | Sony IJP-V100 |
| Sony DPP-EX5 | Sony UP-DR200 | |

SHINKO PRINTERS

Shinko CHC-S1245

Shinko CHC-S2145

Shinko CHC-S6145

Shinko CHC-S6245

Shinko CHC-S9045

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Rev. 11/27/18
SC-EULA-03

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