



IDW520 ID Photo System User Guide for Version 1.2

Contents

Before You Begin 6

- Important Safety Instructions 7
- General Safety Precautions 8
- Contact Us 9

Introduction 10

- What is the IDW520? 11
- IDW520 System Components 12
- IDW520 Console 13
- Your Camera Controls 14

Installation 16

- Preparing the Panasonic Camera . . 17
- Setting up the Printer 18

- Connecting the Printer 18
- Installing the Printer Paper 20
- Replacing the Printer Ribbon 23
- Setting Up the IDW520 Console 25

Using the IDW520 System 26

- Turning ON the System 27
- Operating the IDW520 System 28
 - Take a Passport Photo 28
 - Transfer the Image 33
 - Print the Image 35
- Saving Images to a USB Drive 38
- About the ID Photo Dashboard 40
 - Understanding the Status Bar . . . 41
 - Printer Icon 41

Camera Icon	42
Software Version	42
ID Photo Template	42
Using the Thumbnail Image Gallery	43
Using the Operations Bar	45
Editing Images	46
Reprinting an Image	49
Reprinting an Image (continued) . . .	50
Importing Images via the USB port .	51
Image Processing	53
Changing the ID Photo Template . . .	54
Printing Full Page Photos	56
Deleting an Image from the Camera	57
Deleting all Images on the Camera .	58
Using the Flash	59
Adding a Custom Template	60
Printer Queue	63

About your ID Photo Printer 65

Getting to know your Printer	66
Setting up the Printer	67
Replacing the Printer Paper	67
Replacing the Printer Ribbon	69

Administrative Actions 71

About Administrative Actions	72
Behaviors Section	74
Imaging Section	75
Print Section	76
ICAO Compliance Certification .	76
ID Types	77
System Section	77
About the Maintenance Screen	78
Maintenance Screen Information .	79
Admin Mode	80
Changing the Admin Password	81

Using LaunchPad	82
SD Card Utility	83
ez Share SD Card Procedures . .	84
Important Information:	
Using Multiple Systems in Close Prox- imity	84
Setting the ez Share SSID Number	85
Repairing the ez Share SD Card	96
Toshiba FlashAir Card Procedures	99
Setting the FlashAir SSID Number	99
Repairing the FlashAir SD Card	101
Install Local Updates	102
Checking for Remote Updates .	104
Quick Support	106
Clear Images Queue	107
Resending Images from the Camera	108
Restart Device	109
Shutdown Device	110

Troubleshooting 111

General Troubleshooting Steps . . .	112
-------------------------------------	-----

Acknowledgements 115

License Agreements	116
Other Agreements	119

Appendix A: Sony Camera . . . 122

Preparing the Sony Camera	123
Your Sony Camera Controls	125
Transfer and Print (Sony Camera) .	127
Deleting an Image (Sony Camera) .	129
Deleting all Images (Sony Camera)	130
Using the Sony Camera Flash	131
Sony Camera Settings	132

Appendix B: Panasonic Camera 136

Panasonic Camera Settings	137
-------------------------------------	-----

Camera Buttons	138
Panasonic Camera Settings	142
RECORD Menu	142
MOTION PICTURE	142
Panasonic Camera Settings (continued)	143
CUSTOM Menu	143
Panasonic Camera Settings (continued)	144
FN BUTTONS (Custom Menu) .	144
RECORD MODE:	144
PLAYBACK MODE	144
SETUP Menu	144
BEEP:	144
ECONOMY	144

Appendix C: Supported Countries 145

Supported Countries	146
-------------------------------	-----

Before You Begin

In this Chapter

Important Safety Instructions	7
General Safety Precautions	8
Contact Us	9

Important Safety Instructions

Safety is paramount when installing and operating the system. These safety instructions are to protect you and the customer and the overall public. The following bullet points apply to the safety instructions in this manual:

- ❖ Read all of these instructions before setting up, installing, and operating your system.
- ❖ Follow all warnings, safety precautions, and notices for all procedures in this manual.
- ❖ When in doubt, stop what you are doing and reassess the safety of the situation or procedure. Never continue with a step or procedure when there is the slightest doubt regarding safety.
- ❖ Save these instructions for future reference.

General Safety Precautions

- ❖ Never install or setup the system near water.
- ❖ Never place the system on an unstable platform.
- ❖ Never place the system near a heat source, such as a heater or furnace.
- ❖ Never perform any of these steps while wearing jewelry (rings, loose necklaces, bracelets, etc.), neckties, or other clothing that could get caught in the equipment. These items can get caught in the equipment or may conduct electricity and cause injury.
- ❖ Never insert any foreign object into the system unit without powering the system OFF first.
- ❖ Never block ventilation ports; allow plenty of room around the system for ventilation.
- ❖ Never use water or liquid to extinguish a fire on the system unit.
- ❖ Always protect the power cord from accidental kinks, cuts, and foot traffic.
- ❖ Always operate this system from the correct type of grounded power source.
- ❖ Always clean and maintain the system in the prescribed manner as instructed in this manual.
- ❖ Always use this equipment in the specified manner as recommended by the manufacturer.
- ❖ Failure to observe safety precautions voids your warranty and may cause damage to the unit and could result in personal injury or death.

Contact DNP Imagingcomm America Corporation immediately if:

- ❖ The system is damaged due to fire or flood; or is otherwise unsafe to operate.
- ❖ Any part of the system is dropped, cracked, or is not operating properly after performing cleaning and maintenance.
- ❖ You have any questions not answered in this manual.

Contact Us

Need help? Contact DNP Imagingcomm America Corporation technical support at:

Email: dnpsupport@dnp.imgcomm.com

Website: www.dnpphoto.com

Introduction

In this Chapter

What is the IDW520?	11
IDW520 System Components	12
IDW520 Console	13
Your Camera Controls	14

What is the IDW520?

The IDW520 is a **wireless passport and ID photo printing system** designed to easily create and print passport photos for your customers. In a matter of minutes, you can take a picture, transfer the image to the IDW520 console, approve the image, and have it print completely formatted ID photos in the template of your choosing. A host of country specific templates are available for passport, visa, and state IDs. You can also make minor color and rotation adjustments to images when necessary. Using the IDW520 console, monitor your printer for media usage and possible error conditions. The IDW520 provides fast photo production. It automatically prints images that meet the proper biometric requirements, and allows editing or reprinting of images as needed.

IDW520 System Components

The following components make up the IDW520 system.

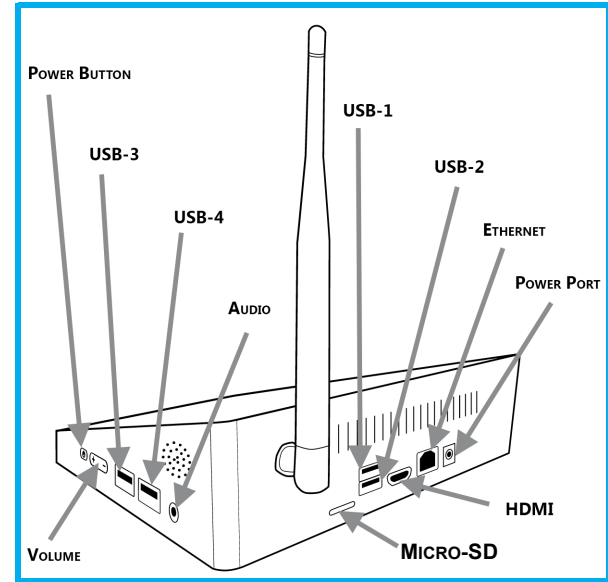
- ❖ Panasonic® LUMIX FZ80 Digital Camera
- ❖ Wireless SD WiFi card
- ❖ Processor console 7" LCD Touchscreen from PiPO Technologies Co, Ltd.
- ❖ DNP IDW520 ID photo software (loaded on wireless console)
- ❖ DNP ID Photo Printer (ribbon and paper sold separately)

Using the IDW520 system, you can:

- ❖ Make passport or ID photo prints. And depending on the country selected, you can also make visa, resident and citizenship, or other regional or custom photo prints.
- ❖ Edit images to improve the quality of the passport or ID photo.
- ❖ Monitor your printer for errors and low print media warnings.
- ❖ Reprint images in the image gallery.
- ❖ Export the digital files to a USB memory.

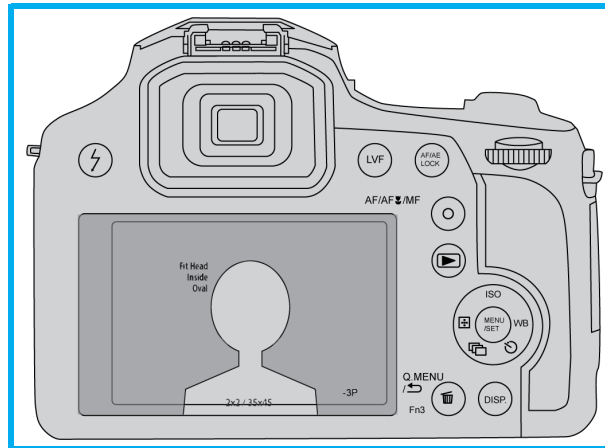
IDW520 Console

The IDW520 console is the brains of the system. It communicates between the camera and the ID photo printer. The console receives the images transferred from the ID camera and formats them as passport/ID photos. Message prompts appear on the screen while the image is updated. The console also controls the DNP ID photo printer. It monitors and reports the printer status indications. Use this image to identify all of the necessary ports on the IDW520 console.




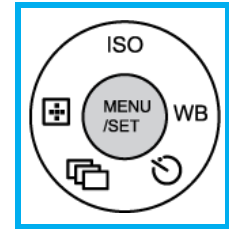
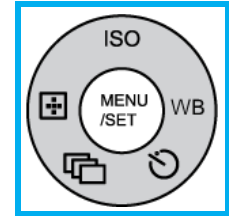
Your Camera Controls

Use the diagram to identify the areas of your passport camera you will use with the IDW520 system. The camera comes set up for operation with your IDW520 system. While there are more settings and functions available on your camera, DNP Imagingcomm America Corporation recommends not changing other settings without first consulting Technical Support. For more information about other settings and camera controls, see your camera user manual.



- ❖ **LCD Viewer:** The large view area on the back of the camera. Use the LCD viewer to preview your passport photos prior to sending the image to the IDW520 console for printing. The head positioning guide on the LCD viewer allows you to take perfectly aligned ID photos every time.

- ❖ **Control Wheel:** The control wheel – to the right of the LCD viewer – is used to access many camera functions. Use the wheel to access menus as well as to move within menus. For the purposes of this document, the ▶ ▲ ▼ and ◀ icons (right, up, down, and left) are used to demonstrate moving within menus. The **MENU/SET** button is the button in the middle of the control wheel is used to select the highlighted option.
- ❖ **Playback Button:** Opens the playback screen - where images you have taken are displayed for your review. 
- ❖ **Menu Button:** Accesses the main camera menu. Use this button to access the camera menu and to set or confirm sending an image to the I send images to the IDW520 console.
- ❖ **Mode Dial:** This dial allows you to select the desired recording mode. The dial should be set to **P**, as indicated in the image to the right. Rotate the dial **P** is selected.



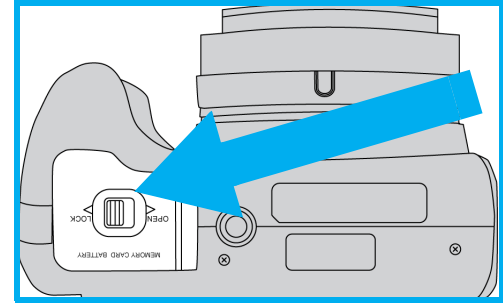
Installation

In this Chapter

Preparing the Panasonic Camera	17
Setting up the Printer	18
Connecting the Printer	18
Installing the Printer Paper	20
Replacing the Printer Ribbon	23
Setting Up the IDW520 Console	25

Preparing the Panasonic Camera

1. Unpack the camera.
2. The camera battery must be charged prior to use. Make sure the camera is OFF before charging.
3. Place the rechargeable battery in the battery compartment.
4. Locate the SD Wi-Fi card that shipped with your system in the console box.
5. Install the SD Wi-Fi card in the camera compartment, which is located in the camera base. Close the door.
6. Use the supplied charging cable and plug to charge the battery from a wall outlet. The charging port is located on the right side of the camera under the cover. When the red light appears on the top of the camera, the battery is charging. For more information, see the user documentation that came with your camera.
7. Connect the camera strap and lens lanyard to the camera.
8. Set the camera aside while the batteries charge so that you can set up the rest of your IDW520 system.
9. Once you have set up the other system components and the camera is fully charged, power the camera ON and it will be ready for use.



Setting up the Printer

The console has on-board help videos that show how to load the print media, i.e., paper and ribbon. The how to videos for this and other operations can also be found on the DNP website.

Connecting the Printer

ATTENTION:

Save the original box and packaging material! You can store the printer in the box when its not in use. You can also use the box for transporting or shipping the printer.

1. **Unpack your printer.** Remove your new printer from the shipping box. Remove any packaging material (plastic, tape, etc.) from the printer.
2. Verify that you have the following components.
 - ❖ (1) QW410 printer
 - ❖ (1) Paper tray
 - ❖ (2) Paper spools
 - ❖ (2) Paper spool spacers (not used for ID print media)
 - ❖ (1) Printer power cord
 - ❖ (1) USB Cable

NOTE:

You also need a box of ID Photo printer media to use your new printer!

3. **Place your printer in the printing location.** Set your printer on a level, sturdy surface. Placing the printer on an unstable surface could cause the printer to fall, cause you injury, or damage the printer components during printing.

4. **Connect your printer.** Make sure your printer is powered OFF. Connect the power cord to the printer (**blue circle**) and plug it into a wall outlet. Connect a USB cable to the type-B USB port and to the computer (**yellow circle**). Power ON the printer and computer.

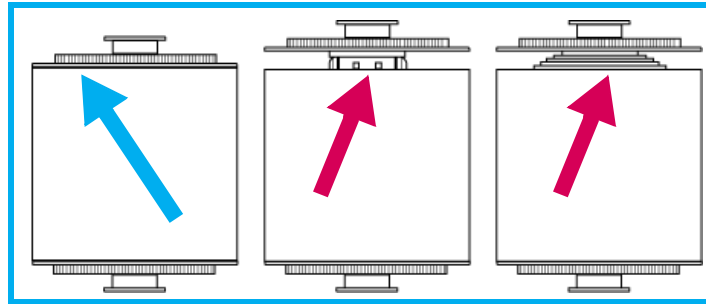


Installing the Printer Paper

1. **Prep the new paper roll.** Open the printer media box and remove a roll of paper. Remove the plastic but do not remove the edge seal at this time. Check that the paper edges are flat and are not protruding from the center of the roll. Place the new paper roll on the paper spools. Be sure to press the spools against the paper roll to set the paper tightly against the spools.

ATTENTION:

Also make sure that the paper spacers are removed during initial installation - before placing the roll on the spools.



2. **Mount the paper roll onto the paper spools.** Locate your new printer media and remove one paper roll and one ribbon. Make sure the paper roll is oriented so that the leading edge of the paper roll is coming over the top of the paper roll and directed towards the front and bottom of the paper roll.
3. **Set the paper in the printer.** Place the mounted paper roll into the printer paper compartment. Remove the seal on the paper.



4. **Feed the paper into the printer.** Feed the paper so that the paper comes over the top of the roll and into the bottom of the printer paper compartment. Continue feeding the paper until the printer beeps. The ERROR LED changes from flashing red and orange to flashing red.



5. **Replace the scrap bin.** Reset the scrap bin in the printer.

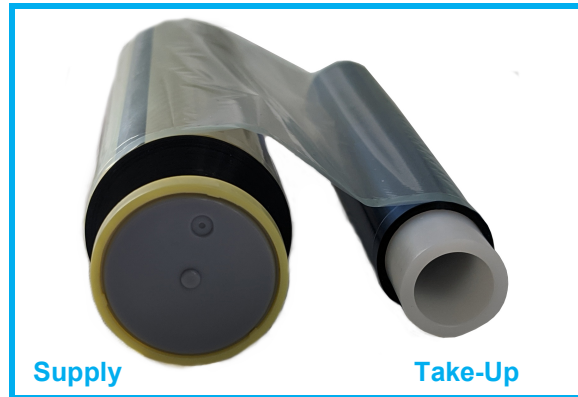
NOTE:

The POWER LED light turns green when the ribbon, paper, and scrap bin are properly installed. If the ERROR LED flashes red, make sure ribbon, paper, and scrap bin are properly seated.

6. **Replace the paper tray.** The paper tray can hold up to 20 prints. However, it is recommended that prints are removed from the tray at regular intervals to prevent jams.

Replacing the Printer Ribbon

1. **Open the ribbon compartment.** Press the button on the top of the printer to open the ribbon compartment.
2. **Orient the Ribbon.** Orient the new ink ribbon so that the supply side (larger side with yellow spool end) is towards you, and the take-up spool (smaller side with white spool ends) is towards the back of the printer.



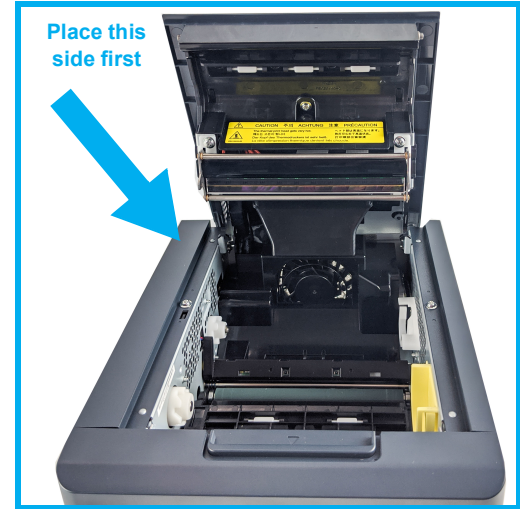
3. **Place the ribbon in the printer.** Place the left sides of the ribbons onto the printer flanges one at a time. Press the right sides of the ribbons into their holders until they click into place. Remove any slack from the ribbon by rotating the ribbon towards the supply side. Close the ribbon compartment.

NOTE: The yellow ribbon flange is inserted into the yellow holder.

4. **Wait for the blank prints.** With the printer turned ON, the printer will initialize and eject 3 blank sheets of paper. The Power / Ready light will remain lit. The printer is ready to print. If the error light remains lit, recheck that the paper and ribbon are loaded correctly.
5. **Install the paper tray.** The paper tray can hold up to 20 prints. However, it is recommended that prints are removed from the tray at regular intervals to prevent paper jams.

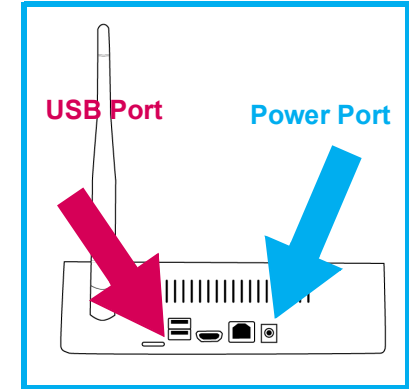
NOTE:

The POWER LED light turns green when the ribbon, paper, and scrap bin are properly installed. If the ERROR LED flashes red, make sure ribbon, paper, and scrap bin are properly seated.



Setting Up the IDW520 Console

1. Unpack the console from the shipping box. Remove any protective plastic sheeting, packaging materials, or foam from the processor console.
2. If you haven't already done so, locate the SD Wi-Fi camera card in the console packaging. Set it aside for camera set up.
3. Plug the power cord into the IDW520A unit and into a wall outlet (see illustration to the right).
4. Plug the printer USB cable into the rear bottom port on the back.
5. Plug the power cord into the console power port and into a wall outlet. Do not power on the processor console at this time.



Using the IDW520 System

In this Chapter

Turning ON the System	27	Reprinting an Image	49
Operating the IDW520 System	28	Reprinting an Image (continued)	50
Take a Passport Photo	28	Importing Images via the USB port	51
Transfer the Image	33	Image Processing	53
Print the Image	35	Changing the ID Photo Template	54
Saving Images to a USB Drive	38	Printing Full Page Photos	56
About the ID Photo Dashboard	40	Deleting an Image from the Camera	57
Understanding the Status Bar	41	Deleting all Images on the Camera	58
Printer Icon	41	Using the Flash	59
Camera Icon	42	Adding a Custom Template	60
Software Version	42	Printer Queue	63
ID Photo Template	42		
Using the Thumbnail Image Gallery	43		
Using the Operations Bar	45		
Editing Images	46		

Turning ON the System

You must power ON the system in the following order:

1. **Printer** (wait for the ready light on the front of the printer before continuing).
2. **IDW520 Console.** The power button is on the right side (wait for the ID Photo application to appear and the Power On Self Test (POST) print before continuing. To turn it on, press and hold in the power button for four (4) seconds; when the red power light comes on, release the power button.

NOTE:

Be aware that if the date and time on the console are set prior to 2018, images will **NOT** be transferred/printed. For instructions on setting the date and time, see “System Section” on page 77.

3. **Camera** (when the IDW520 console beeps and displays a **CAMERA CONNECTED** message, the camera has been recognized as connected to the network). It can take a minute for the system to recognize the camera.

NOTE:

If you hear a beep after starting the system, check the console for an error message. Typical error messages are **PRINTER NOT FOUND** (verify the printer is ON and plugged into the IDW520 console) or **MEDIA MISMATCH** (either no media or the wrong media is loaded in the printer.)

Operating the IDW520 System

Start to finish, here's how to take a picture, transfer it to the system, and print the photo.

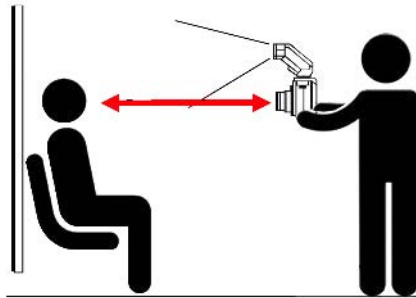
Take a Passport Photo

NOTE:

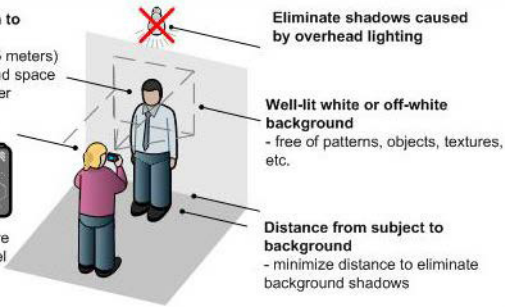
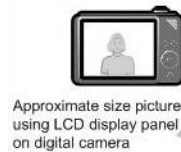
The IDW520 can also be used to take photos for visa, citizenship, other regional or custom IDs, and permanent residency documents, depending on the ID template you have selected on the dashboard.

1. If you haven't already, power ON your system in the following order: printer, IDW520 console, and then the camera. Watch the console screen for the **CAMERA CONNECTED** message. This message lets you know the system is ready for use.

- Place the subject in front of a white or very light colored, plain background with no textures or patterns. Use a flat white screen for the image background. A glossy or reflective screen can cause issues with the flash. If possible, use a screen that is at least 36 inches wide and 48 inches tall.



Distance from camera to subject
 - more than 4 feet (1.25 meters)
 - include upper body and space above head in viewfinder



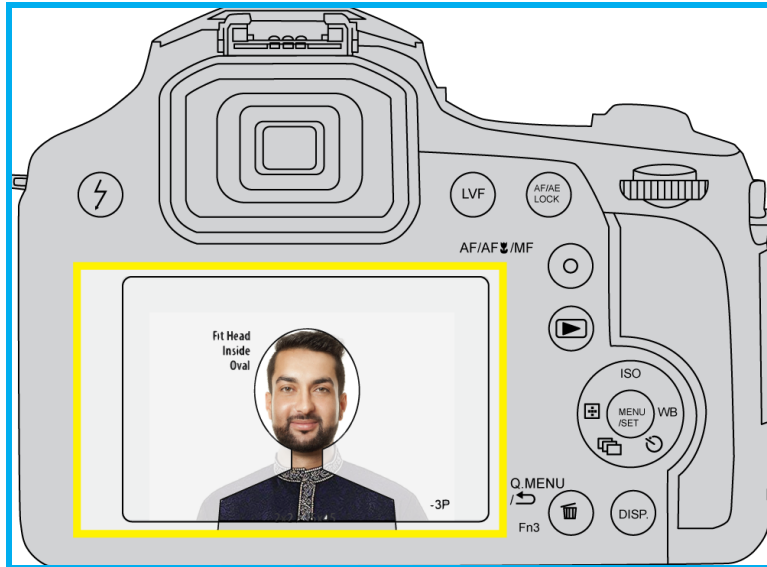
NOTE:

Confirm the Camera Mode selector is properly set. DNP recommends mode P setting.

- Have the person stand (or sit) close to the background to minimize shadows.
- If possible, use photo lights to properly illuminate the subject and further reduce shadows. If necessary, use the camera flash to reduce shadows.
- Stand 6 feet away from the subject. Hold the camera so that the camera lens is eye-level with the subject.



- Center the subject's head using the head positioning guide on the LCD screen. The head should fit within the oval as much as possible without going outside of the line.

**NOTE:**

When using tall ID templates, e.g. Canada passport, always keep the subject's head well within the guide oval for better image framing results.

- Align the top of the subject's head with the top edge of the oval. Use the zoom function to line up the subject's chin with the bottom edge of the oval.
- Take the picture by pressing the shutter button. Pressing the shutter button slowly allows the camera to automatically focus on the subject.

9. Review the photo on the camera LCD. Verify that the subject's head fits within the face guides.

NOTE:

The FZ80 ID Photo camera has a zoom memory function. This time-saving feature will automatically bring the zoom back to the same position when you turn it on for successive picture taking sessions.

10. For most government ID photos, e.g. US passport, the following requirements apply. Check local requirements for other ID templates.
- ❖ Taken with the subject's full face showing towards the camera.
 - ❖ Taken with a neutral facial expression (preferred) and with both eyes open.
 - ❖ Taken in clothing that the subject would wear on a daily basis:
 - ❖ Uniforms, clothing that looks like a uniform, and camouflage attire should not be worn in photos except in the case of religious attire that is worn daily.
 - ❖ The subject may only wear a hat or head covering if they wear it daily for religious purposes. Their full face must be visible and any head covering cannot obscure the hairline or cast shadows on the face.
 - ❖ Eyeglasses are not accepted unless needed for medical reasons (medical certificate may be required).
 - ❖ Headphones, wireless hands-free devices or similar items are not acceptable in the photo.
 - ❖ Use the following guidelines when taking passport photos:
 - ◆ Place the subject in front of a white or off-white background with no texture or pattern.

Tech Tip:

When taking photos for a tall rectangular templates, the camera can be rotated 90 degrees to the portrait orientation. Be sure the camera aspect ratio is set to 4:3 or similar rectangular setting.

The IDW system also supports the camera image aspect ratio of 1:1 for easier framing of square ID template photos.

The center mark of the camera LCD in most cases should be at eye level or centered on the bridge of the nose.

Always keep the subject's head well within the guideline oval to ensure there's enough whitespace surrounding the subject for the IDW processor to format and crop it into the ID template.

Transfer the Image

NOTE:

For best results, send only one image at a time from the camera to the IDW520 console.

1. Once you've taken the passport photo press the **PLAYBACK** button to verify that the photo meets the ID photo requirements.
2. If you took multiple pictures, you can scroll to the best image.
3. For best results when transferring the image to the console, have your camera no more than 15 feet from your IDW520 console during the transfer process. Placing the camera closer to the console is better when transferring the image.
4. Once you have located the image you want to print, press the **Fn2** button on the top of the camera.
5. The print menu option appears. Check that the print quantity is set to **1** and press the **SET** button on the camera to transfer the image to the IDW520 console.

NOTE:

The **SET** button is the center button on the control wheel on the back of the camera.

6. Immediately return the camera to shooting mode by pressing either the **SHUTTER** or the **PLAYBACK** button.

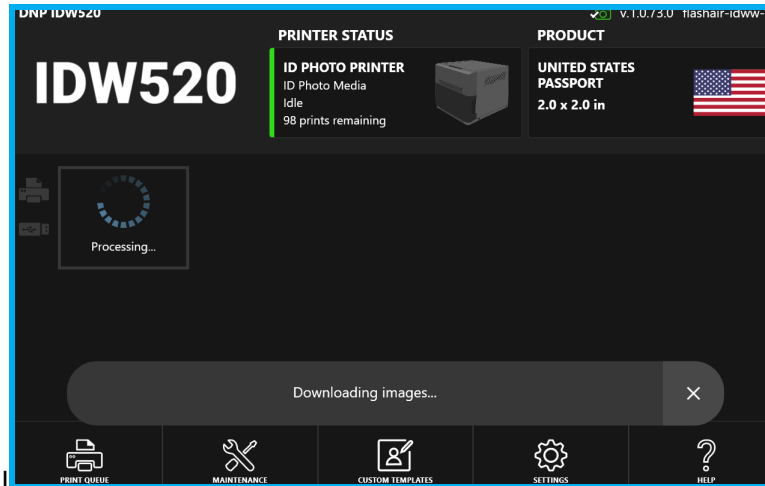
ATTENTION:

Do not leave the camera in playback mode. Also note that if multiple images are transferred, the images take longer to process.

The image queue can hold up to 16 images. The oldest images are deleted from the gallery as new images are transferred.

Print the Image

1. The image begins to transfer and a **DOWNLOADING IMAGES** message appears on the console screen. You'll also see a box with *Processing Images* shown as the thumbnail is prepared. The thumbnail appears in the thumbnail section of the home screen.



2. If the image has a GREEN box around it, the image will likely meet the requirements for that template. If the image has a red box, it will not meet the requirements for that template.

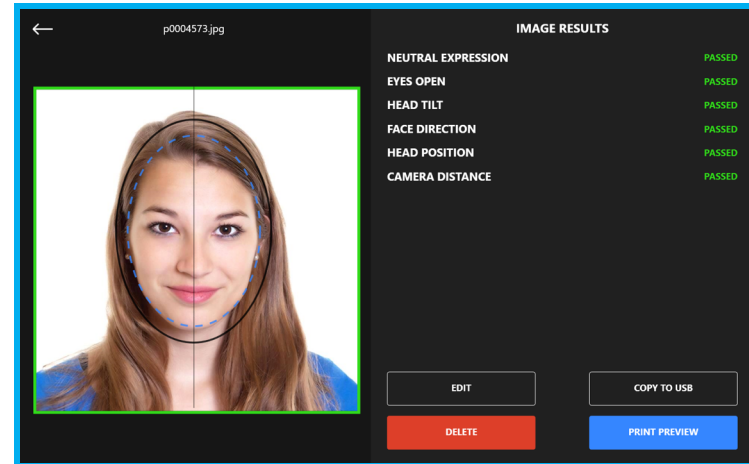
If the image has a YELLOW box, it has met some requirements, edit the image to review and correct, or retake the image.

When a RED box surrounds the image, it most likely will not meet the requirements for that template. Retake the photo of the subject.

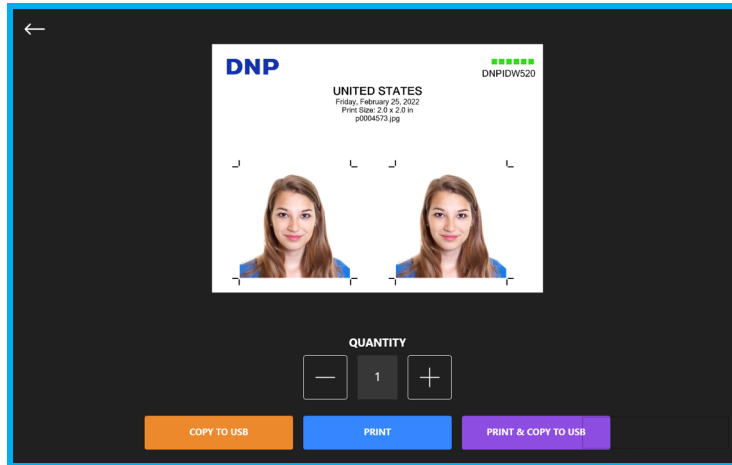
3. Tap on the **image thumbnail** to open the image results screen. On the image review screen you can continue to print the image, delete it, edit it, or copy it to a USB drive.
4. If the image meets the requirements (you'll see a green box around the image), you can press the **Print Preview** button. If the image does not meet the printing requirements (red box), you can try to edit the image or simply delete and retake the image.

NOTE:

The processor console is factory set to Auto-Print images. The Auto-Print setting can be changed to Auto-Print GREEN only images, or GREEN and YELLOW Images, or Auto-Print can be disabled. The configuration for this feature is in the Settings menu.



5. Press the **PRINT** button to print your image or press the **COPY TO USB** button to save your image to a USB drive. Press the **PRINT & COPY TO USB** button to do both. You can also increase the print quantity by pressing the **PRINT QUANTITY** buttons; the default is set to one (1) but you can print up to five (5) copies.

**NOTE:**

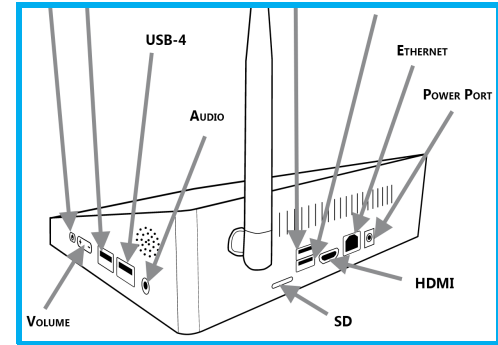
The **COPY to USB** button will export the original image JPG file on the USB along with processed and cropped images of the active template in both JPG and PNG image format. Changing the camera setting to increasing the image size will transfer a larger image and also increase the resolution and size of the image files exported to USB. This is necessary for certain government requirements for higher resolution image uploads. Using larger input image files will also result in longer IDW520 processing times.

Saving Images to a USB Drive

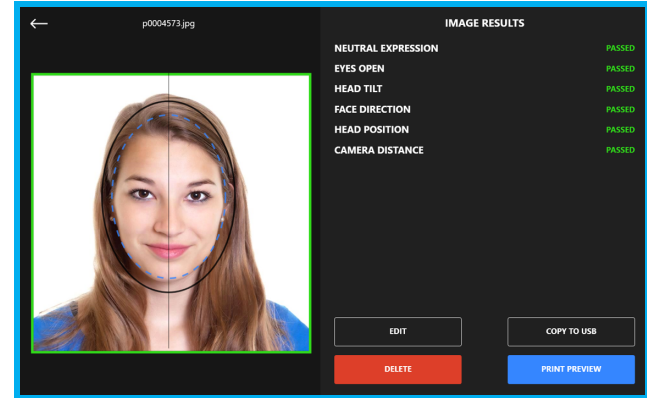
Once you have sent an image to the IDW520 console, you have the option of saving the image to a USB drive.

1. Insert a USB drive into the console USB-4 port. It is recommended to plug the USB drive into the USB-4 port.
2. Take and send your image to your console.
3. Tap on the image in the thumbnail queue to open the image results screen.
4. On the image results screen, press the **COPY TO USB** button.
5. When the confirmation message appears select **YES**.

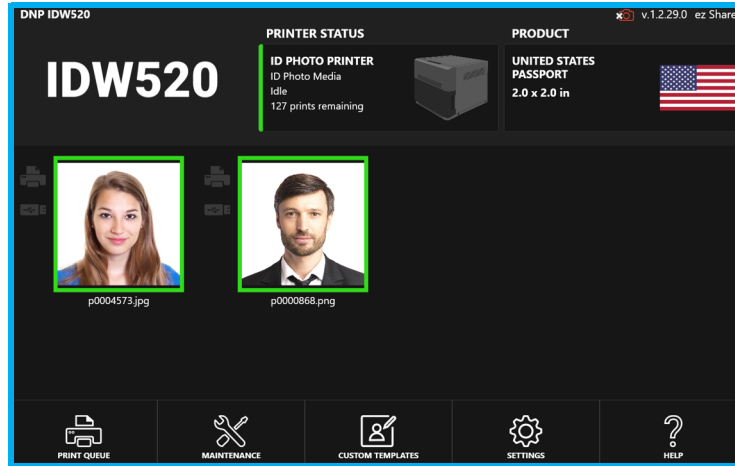
If you have not inserted a USB device already, your console gives you an **INSERT USB MEDIA** message. Do not remove the USB drive until you are instructed to do so later in this procedure.



6. A **USB MEDIA READY** message is shown just before the images are transferred to the USB media. Three images are saved to the USB drive – the original image that was taken on the camera, and the two copies of the edited image; one copy as a JPG format and the other is PNG format.
7. When the images have finished transferring to the USB drive, the console displays a **REMOVE USB MEDIA** message.



About the ID Photo Dashboard

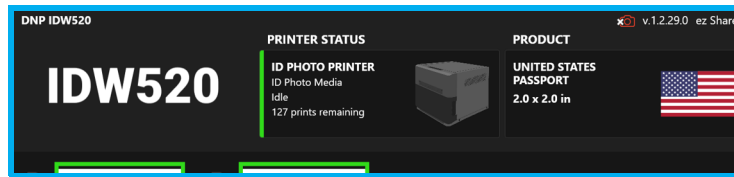


The IDW520 dashboard (or home screen) gives you an overview of your system health and operations and also displays any photos that have been taken during the current IDW520 work session. The screen can be divided into three sections: the health bar, the thumbnail section, and the systems operations bar.

Understanding the Status Bar

Along the top of the screen you'll see the status bar that displays your printer icon, camera connection icon, software version, and current ID photo template.

It's a good idea to review the status bar before you use the system to make sure you're ready to process and print an order!



Printer Icon

Your printer icon gives you an overview of your printer status. From this icon, you can see:

- ❖ The type of media loaded in the printer.
- ❖ The number of prints remaining on the media.
- ❖ The printer status (idle, waiting, printing, error).

The colored bar on the side of the printer icon gives you an idea of your printer status.

- ❖ Green: The printer is ready to print or currently printing.
- ❖ Yellow: You need to replace the printer media soon.
- ❖ Red: There is an issue with the printer that you must address before you can print.

Camera Icon

The camera icon is either green (camera is connected and ready to use) or red (camera is not connected).

Software Version

The software version is displayed next to the camera icon.

ID Photo Template

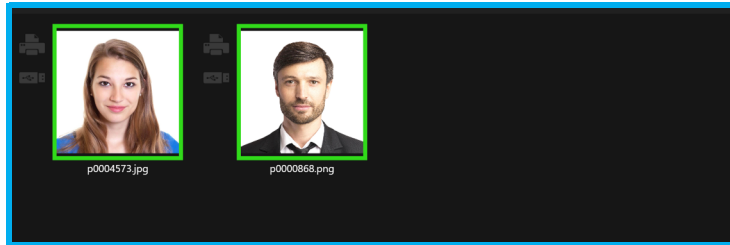
The template that is loaded is displayed at the far right edge of the health bar. By clicking the icon, you can change the template. Some of your template choices are:

- ❖ Passport templates for various countries.
- ❖ Visa templates
- ❖ State or providence templates
- ❖ Resident templates
- ❖ Citizenship templates
- ❖ Custom templates

For some ID templates a higher resolution image is recommended to meet the government requirements, particularly for image files that will be exported for digital upload. The camera resolution can be increased when this ID photo is taken. Camera capture size will correlate to the processed export file size.

- ❖ The camera setting should be returned to the original image size for normal ID operations.
- ❖ Longer processing times will occur with larger image files.

Using the Thumbnail Image Gallery



View images from your current work session in the thumbnail section. A colored box appears around each thumbnail. The frame around the image shows the results of the biometric check: GREEN - YELLOW - RED - PURPLE

When the frame box is GREEN, the image has passed the checks and is a good image for ID photos.

If the box is YELLOW, there may be a minor issue with the photo, and you need to review the photo carefully before submitting it for printing. If the box is RED, the image will probably not be accepted for ID photos.

Touching the image will open the EDIT and REVIEW window. After an image is manually edited, the thumbnail will show a PURPLE frame around the image.

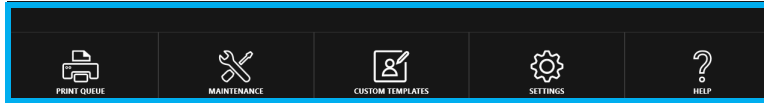
Beside each image are two icons - a USB drive and a Printer icon. The Printer icon indicates the image was printed. The USB icon indicates the images were Exported.

Once the print order has been processed, the icon will highlight to show you which product was produced. Tap on an image to open the preview screen. For more information on previewing and printing images, see “Operating the IDW520 System” on page 28.

NOTE:

The Image Gallery can hold up to 16 images. When the next image is transferred in, the oldest image will be removed from the gallery.

Using the Operations Bar



At the bottom of the dashboard, the Operations bar allows you to perform various software, maintenance, and print functions as well as view the help information.

Use the operations bar to access:

- ❖ **Print Queue:** View the completed and pending photos for the current work session. You can also see if any images failed to print. For more information “Printer Queue” on page 63.
- ❖ **Maintenance:** Access your maintenance tasks such as installing updates, activating technical support control, clearing the image queue and restarting the console. See “About the Maintenance Screen” on page 78,
- ❖ **Custom Templates:** View and select the currently loaded custom templates for printing.
- ❖ **Settings:** Change software settings such as language, time, date, etc. in this section. See “About Administrative Actions” on page 72.
- ❖ **Help:** Access helpful documents such as your up and running guide and user guide. You can also view videos about common functions.

Editing Images

The editing screen allows you to make minor color, tone, and rotation corrections to an image.

ATTENTION:

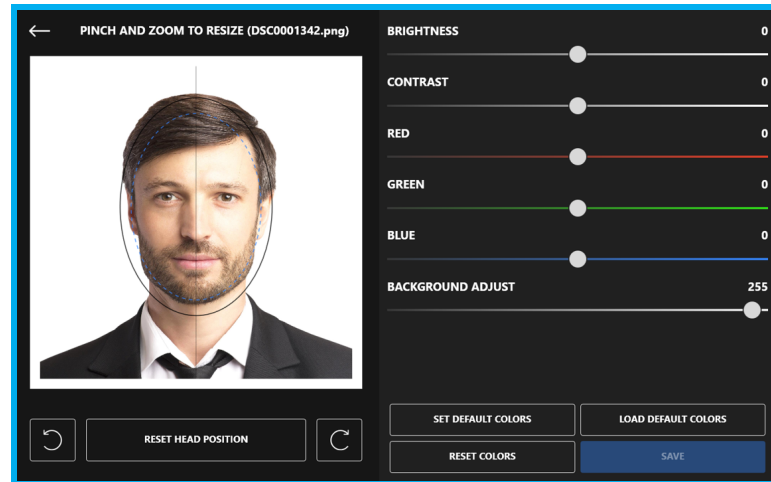
Only edit images if it is absolutely necessary. For optimum system operation, capture the best image possible with the camera rather than edit the image. Proper subject lighting is the key element to achieve good results.

1. On the image results screen, press the **EDIT** button.

ATTENTION:

IMPORTANT NOTE ON EDIT CONTROLS:

The color adjustments made on this edit screen are only for the current photo. To make a change that is applied to all photos, use the **SET DEFAULT COLORS** button to save your changes and apply them to future images automatically. This applies to all incoming photos processed even after powering off or restarting the console. Pressing the **RESET** button in the edit screen will return the color controls to neutral. Resizing adjustments are not saved.



2. Use the editing screen to make the following changes:

- ❖ **Background Highlight Control Adjust:** The IDW system will automatically evaluate and adapt the highlights to achieve an optimally light face and background for each image. Use this control to override the automatic setting. Slide the control to lighten or darken the background of the image. The results of the auto-adjust processing may be less than optimal when the image lighting is not ideal. A lower numeric value lightens the image background and image highlights, a higher value darkens it. Adjustment Range 100~255.

Tip

When the processed image is too dark or too light and cannot be easily adjusted by the system or manual controls, retake the photo with better lighting. Refer to the troubleshooting section of this guide or contact DNP support.

- ❖ **Color Correction:** If the color is slightly off, correct it using the color sliders. Keep in mind any color correction done will affect the background of the image. Also, make sure your corrections do not distort the skin tone of the subject.
- ❖ **Brightness/Contrast:** Correct the overall tone of the image using the brightness and contrast settings. Again, take care to not change the skin tone or the background of the image.
- ❖ **Rotation:** You can make small rotation changes to the image using the left and right rotate buttons below the image. Press the **RESET HEAD POSITION** button to remove all rotation changes.

NOTE:

To save the changes you have made to the color settings for use with all subsequent photos, press the **SET DEFAULT COLORS** button. To remove all color corrections you have made (including default settings) to this image, press the **RESET COLORS** button. To reload a previously set default color setting, press the **LOAD DEFAULT COLORS** button.

3. If needed, adjust the size of the image - use your finger to **pinch and zoom** (as you would on a touchscreen device like a smart phone) the image to resize the image to fit within the guides.
4. Make any adjustments that are needed to the image. The **vertical line** going down the middle of the image is used to center the subject in the template.
5. When you have finished editing the image, press **SAVE** button to return to the image results screen.

Reprinting an Image

Select one of the images from the image gallery on the console main screen. Just touch the image you want to reprint and then follow the steps in the previous sections to edit or print the image.

When the image no longer appears in the image gallery, the images have been purged from the console image cache. To reprint in this case:

1. On the IDW camera, clear all the print set flags.
 - ❖ On the **Panasonic FZ80 Camera**:
 - ◆ Access the **Menu**.
 - ◆ Go to the **Playback** menu, and access **Print Set** on page 4/5.
 - ◆ In **Print Set**, select **CANCEL**.
 - ◆ Select **YES** and then press the **Set** button.
 - ❖ For the **Sony H300 Camera**:
 - ◆ Press the **Playback** button.
 - ◆ Access the **Menu** and scroll to **DPOF**.
 - ◆ Remove the DPOF flag (uncheck) from each image that you don't want to reprint.
 - ◆ Exit the **Menu**.

<continued on next page>

Reprinting an Image (continued)

2. On the IDW console access the **Maintenance** menu. Then tap the **Clear the Image Queue** button, which will delete any images in the IDW image gallery.
3. Simply resend the image from the camera by following the steps in “Transfer the Image” on page 33.

NOTE:

It will be processed as a new image.

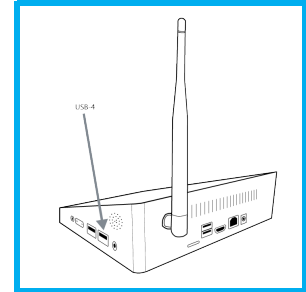
NOTE:

Both the camera print flags and print queue images of the IDW console must be cleared in order to resend images that have been previously processed by the IDW system.

Importing Images via the USB port

Images from other sources can be uploaded for processing and printing with the IDW520 system. Using the USB-4 port, you can transfer images for printing -- connect either your camera via USB cable, or use a USB flash storage drive.

1. Make sure the IDW520 is working and that the main dashboard is displayed. If you are transferring images from the camera via USB cable, make sure the camera is powered ON.
2. Plug the USB drive or USB cable into the port on the side of the camera and into the USB-4 port on the side of the console. After a few seconds, the IDW will recognize the external storage device and begin to display a thumbnail of the images that can be selected.
3. The IDW520 will display only the first 16 images on the storage device. Any or all 16 images can be transferred at one time. Remove and reload the USB with other images to print more from the external source.
4. When the images are displayed, tap the images you want to upload to select them. Then please the UPLOAD button on the screen.
5. The images will be uploaded and processed for the selected template as if they were transferred from the IDW camera.

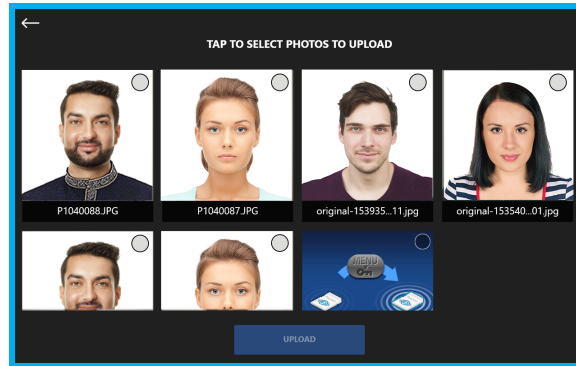


NOTE:

An image size of 5k x 5k is the maximum pixel size accepted by the IDW520

Large file sizes will affect the processing speed of the IDW system. The Image Queue should be cleared of the largest images to avoid slow processing of subsequent ID images.

- Once plugged in, the last images are displayed on the screen.

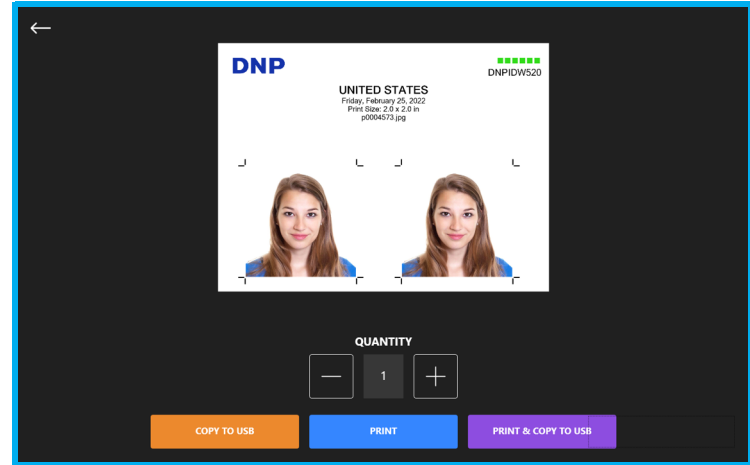


- Select your images and continue printing as you normally would.

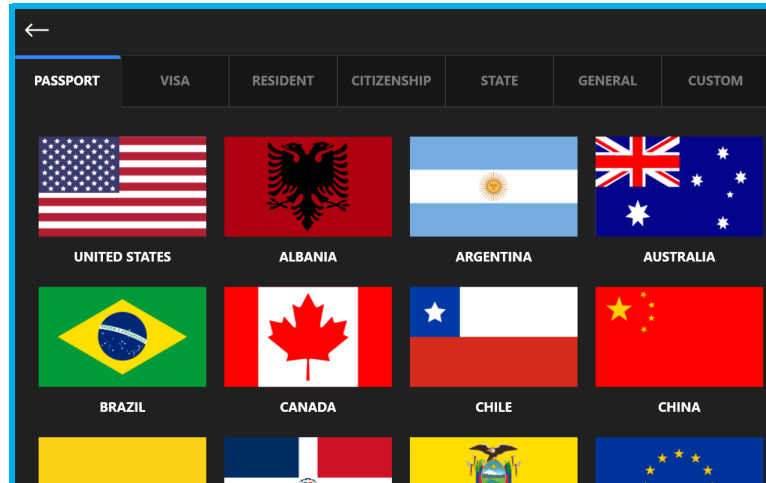
Image Processing

On the image printout representation, you notice a series of six (6) colored squares in the upper corner. Each box refers to one of the imaging processing requirements each image must pass. If a particular requirement was met, the corresponding box appears Green. If a requirement was not met, the corresponding box appears Yellow. The processing requirements are as follows:

- ❖ Neutral Expression
- ❖ Eyes Open
- ❖ Head Tilt
- ❖ Face Direction
- ❖ Head Position
- ❖ Camera Distance



Changing the ID Photo Template



1. From the dashboard (or home screen), tap the **template icon** on the top right side of the screen.
2. When the template selection section opens, use the tabs at the top of the screen to select the **type of template**.

3. Select the template from the listed options.
4. You're returned to the dashboard and the new template icon is displayed. Any images transferred to the IDW520 console will now be cropped according to the new template parameters. Any image already in the image gallery will also be re-processed and reformatted to the new template.

NOTE:

The template sort order will change with system use so the most used templates will appear at the top of the list.

The IDW520 also supports full page image printouts. The Full Page template is found in the **General** tab and can be used for Non-ID photo printing. This function will bypass the bio-detection step and go directly to processing. It will resize the image to fill the entire page, center crop, and allow the operator to edit the image similar to the ID workflow.

TIP:

When printing large image files, in the full page template for example, it is best to clear the console image queue before switching back to an ID template.


Printing Full Page Photos

The IDW520 also supports Full Page image printouts, used for Non-ID photo printing. The Full Page 4x6 template is found in the **General** tab. This function will bypass the bio-detection step and go directly to processing. It will resize the image to fill the page, center crop, and allow the operator to edit the image similar to the ID workflow.

NOTE:

After printing large image files using Full Image mode, it is recommended to clear the Image Queue prior to switching back to a regular ID template in order to avoid long processing times.

Deleting an Image from the Camera



1. On the camera, press the  (DELETE) button on the back panel of the camera.
2. Select the image you want to delete and then press **SELECT** button.

ATTENTION:

DO NOT format the SD card to delete the images. The card programming for the system will be lost if you format the card. See “SD Card Utility” on page 83 if the SD card becomes damaged or formatted.

Deleting all Images on the Camera

The images should be deleted from the camera storage on a daily basis. This is easily accomplished using the Trashcan button on the back of the camera.

1. On the camera, be sure that you are in **PLAYBACK MODE**  (play button).
2. Press the  **Delete** button (trashcan button).
3. Select the **Delete All Images on this Date** option and press the **SET** button.
4. You can also select the **Delete Multiple** or **Delete Single** options.

Using the Flash

The flash is automatically enabled at the factory. Use the camera flash if needed to increase the quality of your photos. Using the flash is recommended as a last resort to brighten photos. Due to passport/id photo requirement, off-camera lighting is best to properly light the subject.

NOTE:

For more information about enabling the flash, see your camera user manual.

1. Press the **FLASH** button on the back of the camera to open the flash hood and use it.

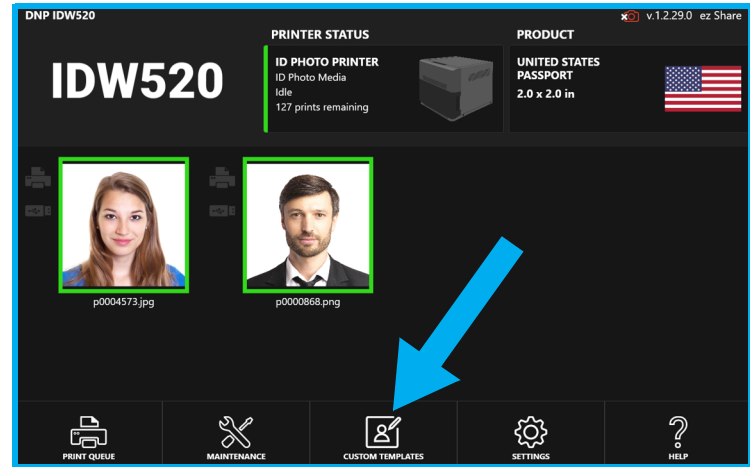
NOTE:

If your images are consistently dark and do not show the necessary details of the subject's face (under exposed, too many shadows, unable to clearly see details), changing the exposure compensation can help correct the issue. You can make this change by pressing the **BACK (Q.Menu)** button and scrolling to the desired option.

Adding a Custom Template

You can create and save a custom passport or ID template. You can select whether an image appears 2 or 3 times on the print out. You can also set the image size to inches or millimeters, as well as setting the position of your image within the template. Once the template is saved, you can use it over and over again!

1. From the main screen on your console, touch the **CUSTOM TEMPLATE** button.



2. Set the **Layout Type**. This allows you to display the image 2 or 3 times on the print out.

The screenshot shows a 'CUSTOM TEMPLATE' configuration interface. On the left is a preview of a white rectangular area with a vertical dashed line down the center and a horizontal dashed line across the middle, indicating a 2x2 grid layout. On the right is a list of settings:

Setting	Value
LAYOUT TYPE	2
MEASUREMENT TYPE	Inch
NAME	Test
WIDTH	2
HEIGHT	2
MAX TOP OF HEAD	0.3
MIN TOP OF HEAD	0.5
MIN BOTTOM OF CHIN	1.4
MAX BOTTOM OF CHIN	1.7

At the bottom, there are two buttons: a red 'DELETE' button and a blue 'SAVE' button.

If you select to have three (3) images on your template, you are limited to an image size of 40 millimeters by 40 millimeters.

3. Select the **Measurement Type**. This can be set to **millimeters** or **inches**.
4. Type the **Name** of your template.
5. Set the **Width** and **Height** of the final printed image.

6. Enter the max/minimum head and chin entries. The maximum and minimum values create the range of allowed tolerances for the head in the template. All measurements are taken from the top edge of the image.
 - ❖ **Max top of head:** The maximum distance (or height) from the top edge of the template to the top of the subject's head (e.g. .25").
 - ❖ **Min top of head:** The minimum distance (or height) from the top edge of the template to the top of the subject's head (i.e. .5").
 - ❖ **Min bottom of chin:** The minimum distance from the top of the template to the bottom edge of the chin (i.e. 1.5").
 - ❖ **Max bottom of chin:** The maximum distance from the top edge of the template to the bottom edge of the chin (i.e. 1.75").
7. Press the **SAVE** button to save your new template.

NOTE:

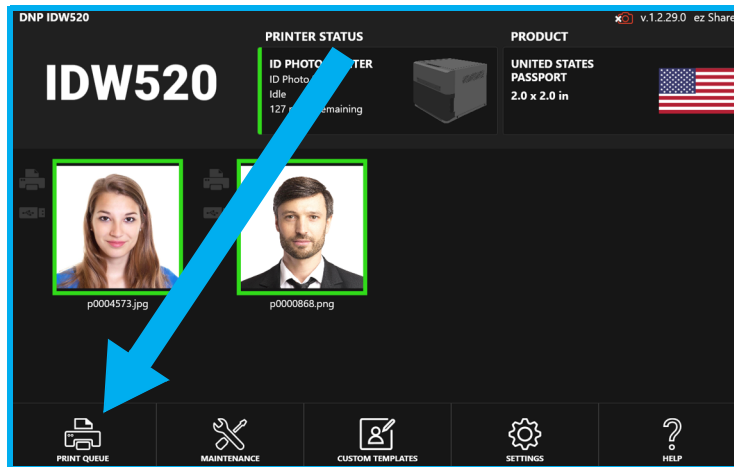
You can access your custom templates via the products Custom tab.

Printer Queue

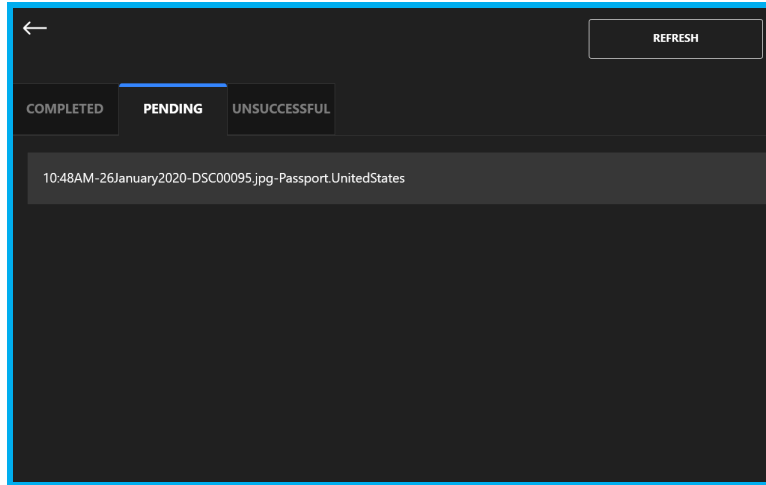
You can check the status of the images you have sent to your printer. The **Print Queues** screen displays the images you have sent to your printer via the IDW520 console; this screen logs whether a sent image:

- ◆ Completed (printed)
- ◆ Unsuccessful (did not print)
- ◆ Pending (waiting to be printed)

1. From your console main screen, press the **PRINT QUEUE** button.



2. The **Printer Queues** screen is displayed. From this screen, you can view the various states of your image by pressing one of the following tabs: **Completed**; **Pending**; **Unsuccessful**.



3. Return to the IDW520 main screen by pressing the **return arrow (top left corner)**.

About your ID Photo Printer

In this Chapter

Getting to know your Printer	66
Setting up the Printer	67
Replacing the Printer Paper	67
Replacing the Printer Ribbon	69

Getting to know your Printer

Ultra Compact and Lightweight. Weighing in at less than 13 lbs, it is now easier for anyone to carry this printer from event-to-event. Its small size allows you to carry it in standard shoulder bags.

Innovative Print Sizes. The QW410 4.5" print head and superior electronics and mechanisms allow for many print sizes for more fun and enjoyment for your customers. The QHD 4.5x8" Pano Print media allows for a unique print size, without the need for cropping for 16:9 high definition aspect ratio shots, for example. It can also print many other sizes and aspect ratios to give you options that can make your event unique and fun... like 2"x4", 3"x4", 4"x4", 4"x4.5", among others.

Supports External Battery. This printer has big energy savings... it uses 35% less energy and allows for battery-powered operation that can operate an entire event!

Wireless Ready. With DNP supplied wireless options, the ID Photo printer is compatible with the mobile and wireless world, supporting macOS, iOS, and most other Wi-Fi operating environments.

DNP Quality. The QW410 may be small, but it delivers big on DNP photo quality color prints, the quality you have come to expect from DNP.

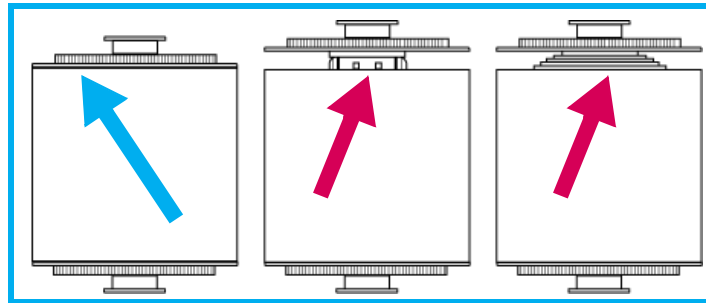


Setting up the Printer

The console has on-board help videos that show how to load the print media, i.e., paper and ribbon. The how to videos for this and other operations can also be found on the DNP website.

Replacing the Printer Paper

1. **Remove the old paper (if necessary).** Remove the paper spools from the paper compartment. Remove the old paper from the spools and throw it away.
2. **Prep the new paper roll.** Open the printer media box and remove a roll of paper. Remove the plastic but do not remove the edge seal at this time. Check that the paper edges are flat and are not protruding from the center of the roll. Place the new paper roll on the paper spools. Be sure to press the spools against the paper roll to set the paper tightly against the spools. Also make sure that the paper spacers are removed before placing the roll on the spools.



3. **Orient the paper roll.** Make sure the paper roll is oriented so that the leading edge of the paper roll is coming over the top of the paper roll and directed towards the bottom of the paper roll.
4. **Set the new paper roll in the printer.** Place the spool and new paper roll in the printer paper compartment. Remove the seal on the paper. Advance the paper so that the paper from the top to the bottom of the roll and into the printer paper compartment. Continue feeding the paper until the printer beeps. The ERROR LED changes from flashing red and orange to flashing red.
5. **Replace the scrap bin.** Reset the scrap bin in the printer.

NOTE:

The POWER LED light turns green when the ribbon, paper, and scrap bin are properly installed. If the ERROR LED flashes red, make sure ribbon, paper, and scrap bin are properly seated.

6. **Replace the paper tray.** The paper tray can hold up to 20 prints. However, it is recommended that prints are removed from the tray at regular intervals to prevent jams.

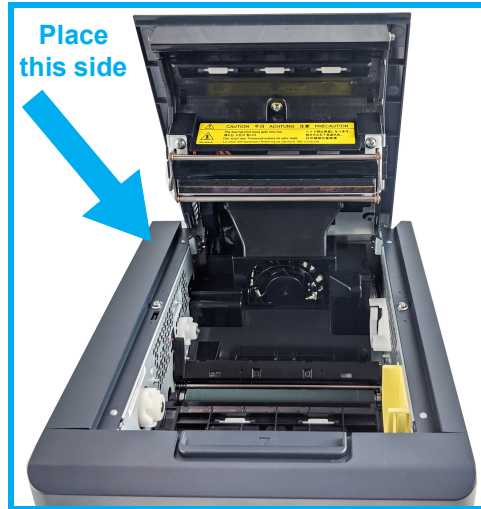


Replacing the Printer Ribbon

1. Press the button on the top of the printer to open the ribbon compartment.
2. If an existing ribbon is in place, remove the ribbon and discard it.
3. Orient the new ribbon so that the supply side (larger side) is towards you and the take-up side (smaller side) is towards the back of the printer.



4. Align the left sides of the ribbon with the grooves and then lower the right sides of the ribbons until they click into place.



5. Remove any slack from the ribbon by rotating the ribbon towards the supply side.
6. Close the ribbon compartment.

Administrative Actions

The IDW520 system software has two administrative sections: the Maintenance section and the Settings section. Use the following information to access and use each section as needed.

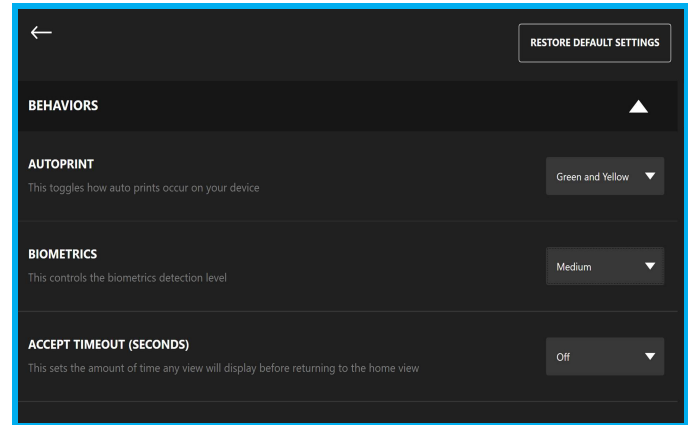
In this Chapter

About Administrative Actions	72	Important Information:	
Behaviors Section	74	Using Multiple Systems in Close Proximity	84
Imaging Section	75	Setting the ez Share SSID Number	85
Print Section	76	Repairing the ez Share SD Card	96
ICAO Compliance Certification	76	Toshiba FlashAir Card Procedures	99
ID Types	77	Setting the FlashAir SSID Number	99
System Section	77	Repairing the FlashAir SD Card	101
About the Maintenance Screen	78	Install Local Updates	102
Maintenance Screen Information	79	Checking for Remote Updates	104
Admin Mode	80	Quick Support	106
Changing the Admin Password	81	Clear Images Queue	107
Using LaunchPad	82	Resending Images from the Camera	108
SD Card Utility	83	Restart Device	109
ez Share SD Card Procedures	84	Shutdown Device	110

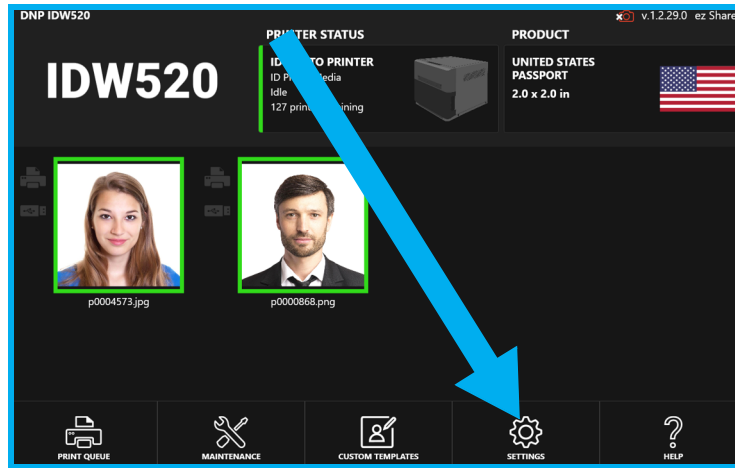
About Administrative Actions

Your IDW520 console arrives pre-configured to the settings you will need for daily operation. However, if you need to change any of the configuration settings, use this section to do so.

ATTENTION:
DNP Imagingcomm America Corporation recommends not changing the system from the default settings unless you have spoken with technical support. Doing so can cause inconsistencies and vary the output from the recommended tolerance thresholds.

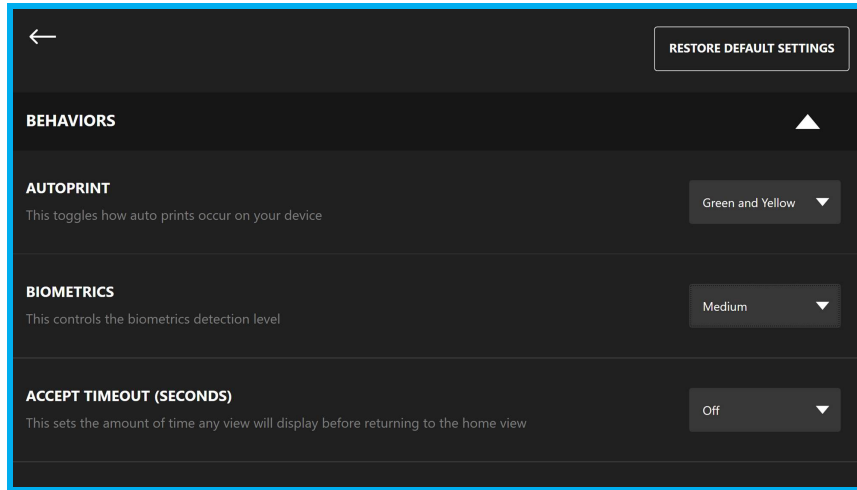


1. To access the settings screen, press the **SETTINGS** button on the bottom of your IDW520 console.



2. The **IDW520 Configuration** screen is displayed. The **IDW520 Configuration** screen is broken up into the following sections: **Behaviors**, **Imaging**, **Print**, and **System**.

Behaviors Section

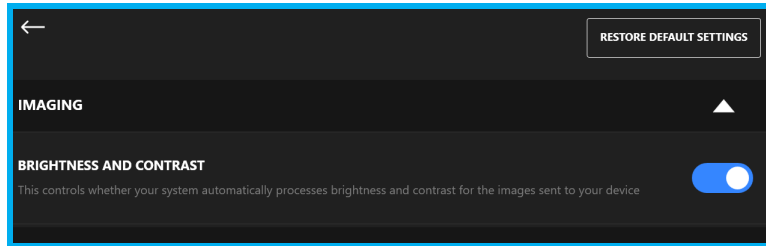


The **System Behaviors** section controls the way the system works to streamline some aspects of the photo printing process. You can configure the following items:

- ❖ **AUTOPRINT:** Automatically prints images that are boxed in green or yellow.
 - ◆ **OFF** - No images are automatically printed.
 - ◆ **ON** - Green and yellow images are auto-printed.
 - ◆ **ACCEPT TIMEOUT (SECONDS):** The amount of time in seconds before you are returned to the main screen.

- ❖ **PRINT COPIES QUANTITY:** Allows you to set how many copies of the image can be printed.
- ❖ **IMAGE DELETION:** The system automatically deletes the IMAGE Gallery photos overnight.
- ❖ **DISPLAY PROCESSING RESULTS:** If this option is set to ON (by default), the system will display the processing results on the image results screen and on the final print.

Imaging Section



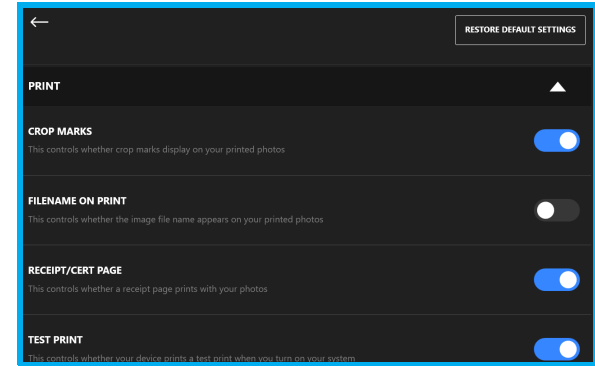
The **Imaging** section settings will tune the way the system first processes the incoming images from the camera. You can configure the following items:

- ❖ **BRIGHTNESS AND CONTRAST:** If set to ON, automatically adjusts the image's brightness and contrast to provide the best results possible.

Print Section

Under the **Print** section of this page, you can configure the following items:

- ❖ **CROP MARKS:** Enables/disables crop marks on the final print. Crop marks are helpful when cutting out the images manually with scissors.
- ❖ **FILENAME ON PRINT:** Enables/disables displaying the image file name assigned by the camera on the final print.
- ❖ **RECEIPT/CERT PAGE:** Enables/disables printing a receipt.
- ❖ **TEST PRINT:** Enables/disables printing the Compliance Certification page/receipt for International Civil Aviation Organization (ICAO.)
- ❖ **BARCODE:** Allows for a barcode to be displayed on the final print.
- ❖ **LOW MEDIA THRESHOLD:** Sets the warning signal for low media. Select a number from the drop-down list for when you want your system to display a low media message.



ICAO Compliance Certification

The IDW520 system can print out an ICAO Compliance Receipt Page in addition to the desired ID photo image. This option can be enabled on the **IDW520 Settings** screen. The Certification Page contains the image processing test results of the images sent to the printer, the country template selection used for the image, and the date.

ID Types

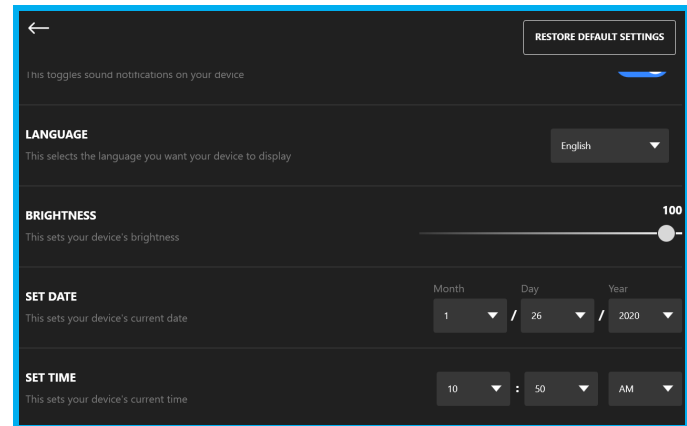
The ID template groups in IDW520 the **ID Types** can be turned on or off as needed. The following categories are offered:

- ❖ Visa
- ❖ Resident
- ❖ Citizenship
- ❖ State
- ❖ General
- ❖ Custom

System Section

Under the **System** section of this page, you can configure the following items:

- ❖ **SOUND:** Enables/disables sound.
- ❖ **LANGUAGE:** Select the language to be displayed on your console.
- ❖ **BRIGHTNESS:** Allows you to adjust the brightness of the console display.
- ❖ **SET DATE:** Sets the date.
- ❖ **SET TIME:** Sets the system time.



About the Maintenance Screen

Use this screen to access, view, and perform common maintenance tasks.

Printer Information

The screenshot displays the printer maintenance screen. On the left, a list of printer details is shown, with a blue arrow pointing to the 'Printer Information' label. On the right, a vertical stack of maintenance buttons is shown, with a blue arrow pointing to the 'Printer Status' label.

NAME	QW410
STATUS	Printing
MEDIA LEFT	96
MEDIA TYPE	SD
PAPER TYPE	ID Photo Media
LIFE COUNT	152
FIRMWARE VERSION	QW410 01.06
SERIAL NUMBER	QW4C9C000035
COLOR DATA VERSION	QW410_SD_300_0100.CWD
DEVICE STORAGE - 28.16 GB	9.05 GB Free
MEMORY - 1.93 GB	0.76 GB Free
CAMERA STORAGE - 14.89 GB	14.63 GB Free

- ADMIN MODE
- SD CARD UTILITY
- INSTALL LOCAL UPDATES
- QUICK SUPPORT
- CLEAR IMAGE QUEUE
- RESTART DEVICE
- SHUT DOWN DEVICE

Printer Status

NOTE:

The camera storage info will only be displayed when the camera is turned ON and LINKED via WiFi to the IDW console.

Maintenance Screen Information

The following information tells you about your system and can be used to troubleshoot issues as needed.

- ❖ **Name:** Lists the printer type
- ❖ **Status:** States the printer status
- ❖ **Media Left:** Lists the amount of prints left before the system runs out of paper
- ❖ **Media Type:** The type of printer media that is loaded
- ❖ **Paper Type:** Lists the paper type loaded
- ❖ **Life Count:** The amount of prints the printer has made over its lifetime
- ❖ **Firmware Version:** Currently loaded firmware version
- ❖ **Serial Number:** Serial number for the printer
- ❖ **Color Data Version:** ICC profile information
- ❖ **Device Storage:** How much storage space is used/left on the device
- ❖ **Memory:** How much memory is used/left on the camera

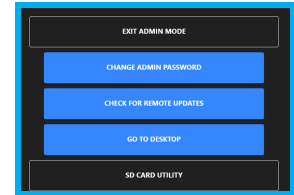
Admin Mode

ATTENTION:

Using the Admin Mode - these actions should only be accessed with the guidance of DNP technical support.

Once you've entered the admin password, you can access the Launchpad program that controls access to the system desktop.

1. Press the **Maintenance** icon to open the maintenance screen.
2. Select **Admin Mode**. Enter the passcode.
3. When the options appear, you can either:
 - ❖ **Check for Remote Updates:** Automatically searches for updates to the system software. Requires an internet connection.
 - ❖ **Go to Desktop:** Opens Launchpad.



Changing the Admin Password

The Admin password can be changed to another password by the system owner. The new password should be kept safe and secret to avoid any unauthorized changes from occurring.

To change the Admin password:

1. Access the **Maintenance** menu. Then tap the **Admin** button.
2. Enter the **Admin Mode** password.
3. Tap the **CHANGE ADMIN PASSWORD** button.
4. Enter a new numeric password, and then press the **ACCEPT** button.

NOTE:

the new Admin password can be reset back to a default password when needed, e.g. the password has been forgotten or changed unexpectedly.

Contact DNP Technical Support for assistance.

Using LaunchPad

LaunchPad controls access to your underlying system desktop. This keeps your IDW520 console safe from unauthorized access.

NOTE:

If you see the LaunchPad app on your screen, that means that you have touched the **Go to Desktop** button in Maintenance mode or the IDW520 software isn't running. Either restart the IDW520 application from LaunchPad or restart the console.

1. Press the **Maintenance** icon to open the maintenance screen.
2. Select **Admin Mode**.
3. Select **Go to Desktop** to open Launchpad.
4. From the LaunchPad screen, you can:
 - ❖ Restart the applications.
 - ❖ Restart the computer
 - ❖ Shutdown the computer
 - ❖ Access a advanced actions such as the system desktop and other administrative functions.

ATTENTION:

Before accessing advanced actions, it is a good idea to speak with Technical Support for further direction.

SD Card Utility

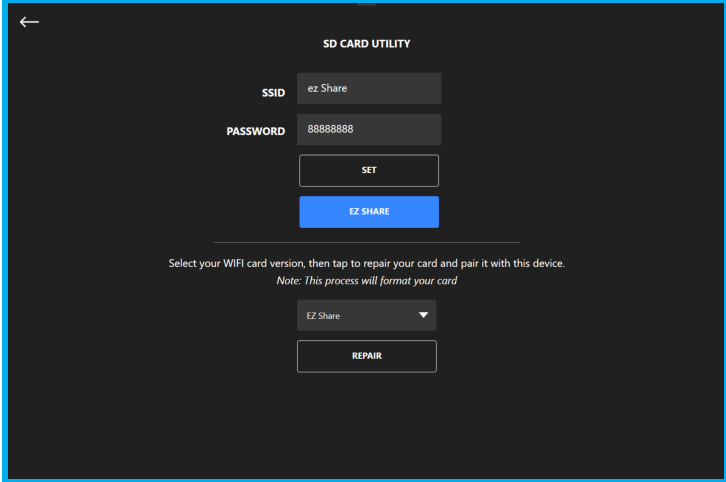
The SD Recovery Utility can be used to correct problems with your SD Wi-Fi card or to setup replacement card for the IDW520 system. The utility has two main functions – to *SET* the SSID to match or pair your SD Wi-Fi card your IDW520 console and to *REPAIR* or clean and reload the SD Wi-Fi card with the necessary files for use with the IDW520 system. There are two possible SD cards that can be shipped with your system. Be sure to use the procedure for the correct card below.

SPECIAL OPERATOR'S NOTE:

When a location plans to have more than one IDW520 in operation in close proximity to one another, one of the IDW520s **MUST** change the SSID to a different SSID to operate independently. For example, one IDW520 SSID can be named EZSHARE; the 2nd IDW520 SSID should be changed to EZSHARE2. Be sure to change to change both the console SSID and WiFi card SSID so they are paired for operation. Restart the IDW520 after making the changes.

ADDITIONAL NOTE:

IDW systems with Flash Air cards are factory configured to have different SSID in each console.



The screenshot shows the 'SD CARD UTILITY' screen. At the top left is a back arrow. The title 'SD CARD UTILITY' is centered. Below it are two input fields: 'SSID' with the value 'ez Share' and 'PASSWORD' with the value '88888888'. There are two buttons: a grey 'SET' button and a blue 'EZ SHARE' button. Below these is a horizontal line. Under the line, there is a note: 'Select your WIFI card version, then tap to repair your card and pair it with this device. Note: This process will format your card'. Below the note is a dropdown menu showing 'EZ Share' and a 'REPAIR' button.

ez Share SD Card Procedures

Use the following procedures for the ez Share SD card - your card may vary slightly from the one pictured, but you must use this section for all ez Share cards. The ez Share card has a switch on the bottom that should remain in the same position.

Important Information: Using Multiple Systems in Close Proximity

IDW520 systems configured with the ez Share Wi-Fi card use a common hidden Wi-Fi SSID of **ezShare**.

When more than one IDW520 is in a room, the nearby systems must be configured with different SSID names.

Use the following procedure to reconfigure the systems with a unique SSID name for each device that are in close proximity to each other (example: ezShare1, ezShare2, etc.).



Setting the ez Share SSID Number

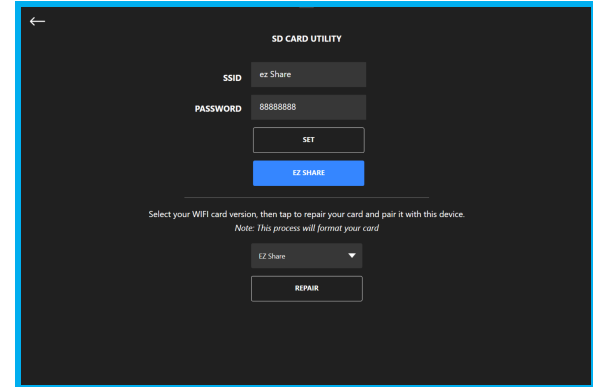
The IDW520 SD Wi-Fi card must be paired to the IDW520 console. If you have received a replacement card or are instructed to reset the SSID on your existing card by a support technician, use the following procedure to do so. Setting or resetting a card allows you to change the network label of the card to coincide with the IDW520 console. The IDW520 SSID name can be found on the main display in the upper right corner of the LCD and on the POST printout. The name must match exactly.

NOTE:

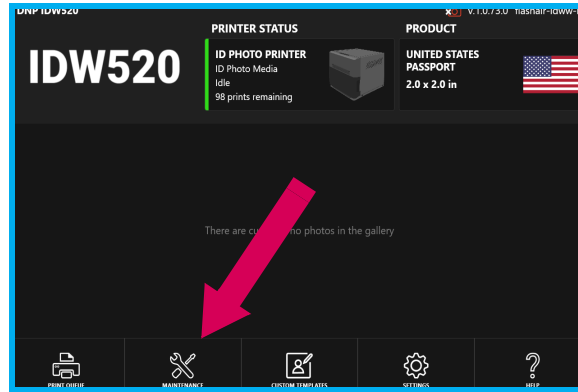
You must change the SSID name in two places - the SD card utility page, and the ez Share configuration change page. The SSID must match in both places in order for the SD card to pair to the console.

A USB keyboard (not supplied) is required for this procedure.

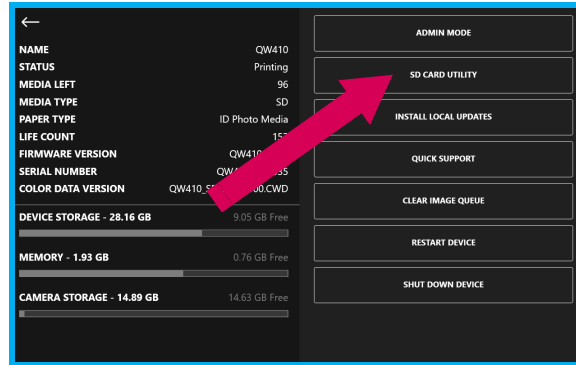
1. Leave the ez Share card in the camera.
2. Power ON the camera and wait for the console to detect the camera.
3. Connect a USB keyboard to the console.



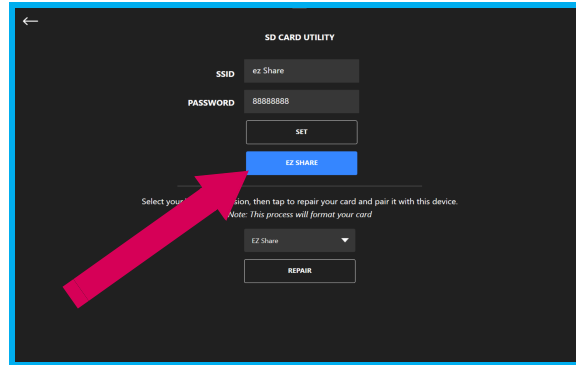
4. Press the **Maintenance** icon to open the maintenance screen.



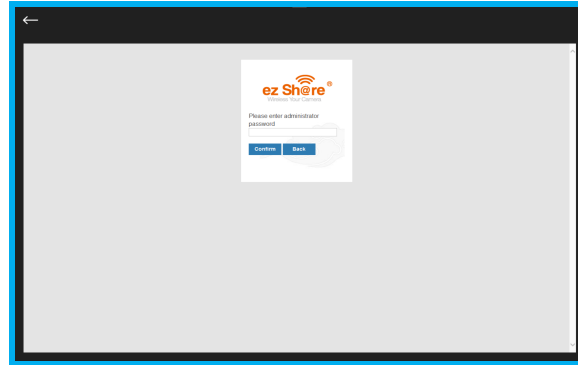
5. Select **SD Card Utility**.



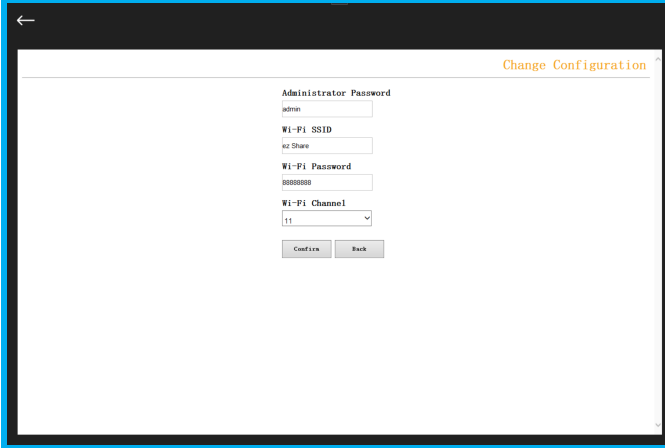
6. Press the blue **ez SHARE** button.



7. When the ez Share login screen appears, use the USB keyboard to type **admin** into the administrator password field and press **Confirm**.



- When the change configuration screen appears, change the WIFI SSID value and WIFI Password. Press **Confirm** to save your changes.



The screenshot shows a mobile application interface titled "Change Configuration". It features a back arrow in the top left corner. The main content area contains the following fields and controls:

- Administrator Password:** A text input field with "admin" entered.
- Wi-Fi SSID:** A text input field with "ez Share" entered.
- Wi-Fi Password:** A text input field with "88888888" entered.
- Wi-Fi Channel:** A dropdown menu currently showing "11".
- Buttons:** Two buttons labeled "Confirm" and "Back" are positioned at the bottom of the form.

ATTENTION:

This Change Configuration screen is used to change the settings on the ez Share SD card. When changing the card SSID, the same change must be made on the IDW520 SD Card Utility page to pair the devices.

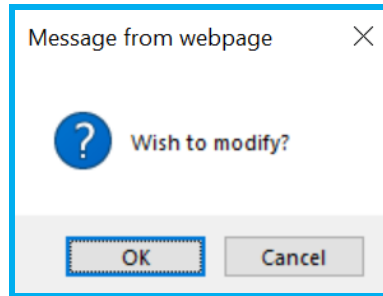
The new Wi-Fi SSID must be one word with no spaces.

NOTE on Multiple IDW520 Systems

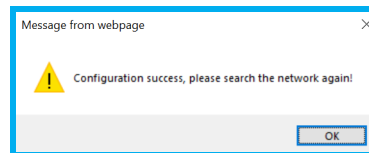
When more than one IDW520 system configured EZ-Share WiFi cards are operating in the same location or in close proximity to one other, the SSID of one of the units **MUST** be changed to a different SSID. As an example, the SSID of the 2nd unit could be set to EZSHARE2.

Be sure to set both IDW console and the EZ-Share card to the new SSID in order to pair them and allow the system to operate properly.

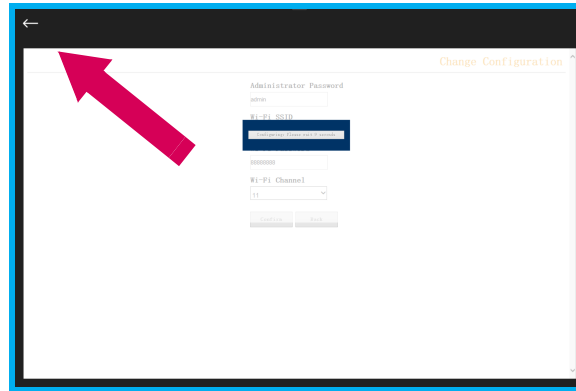
9. Click **OK** when the pop-up message appears.



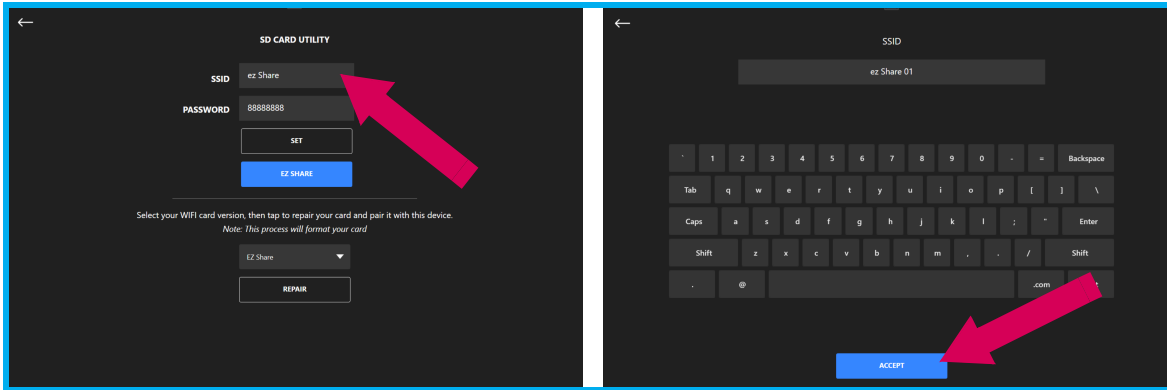
10. After about ten seconds, click **OK** when the configuration success pop-up appears.



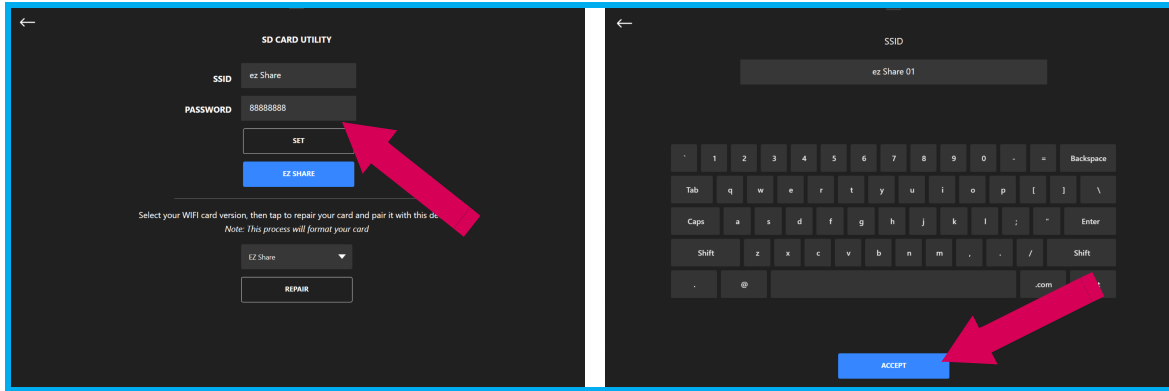
11. Click the **back arrow** at the top left corner of the screen to return to the SD Card Utility page.



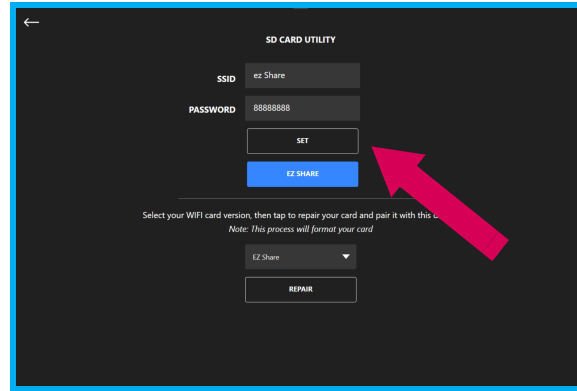
- On the SD Card Utility page, touch the **SSID** field text area. Use the on-screen keyboard to enter the Wi-Fi SSID you entered on the ez Share configuration page. The SSID must match exactly, character for character; it is case sensitive.



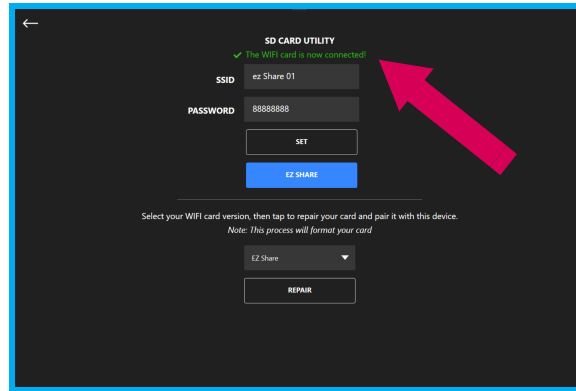
13. Touch the **Password** field text area. Use the on-screen keyboard to enter the Wi-Fi password you entered on the ez Share configuration page



14. Making sure to have the SD card in the camera, and the camera powered ON, click the **Set** button. The console will attempt to reconnect with the ez Share card



15. If successful, you will see the text appear: *The WIFI card is now connected!*



16. Return to the console home screen and the camera icon should be green with the SSID value displayed.

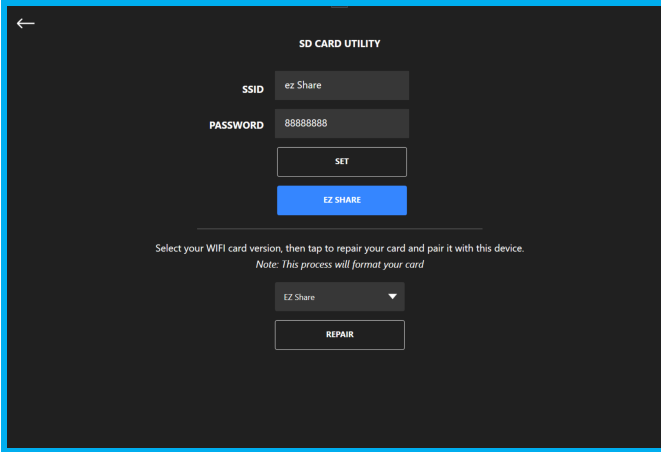
17. Your card's SSID number is now set to work with your IDW520 system.

Repairing the ez Share SD Card

You can repair, or reformat, your SD card if the data has been corrupted or you've added a new card to your inventory. If you use the repair option, any data that is stored on the card will be erased.

1. Remove the ez Share card from the camera. Insert the ez Share card into the USB SD Card Adapter.
2. Insert the SD Card Adapter into one of the USB ports on the PIPO device.

3. Press the **Maintenance** icon to open the maintenance screen.
4. Select **SD Card Utility**.



←

SD CARD UTILITY

SSID ez Share

PASSWORD 88888888

SET

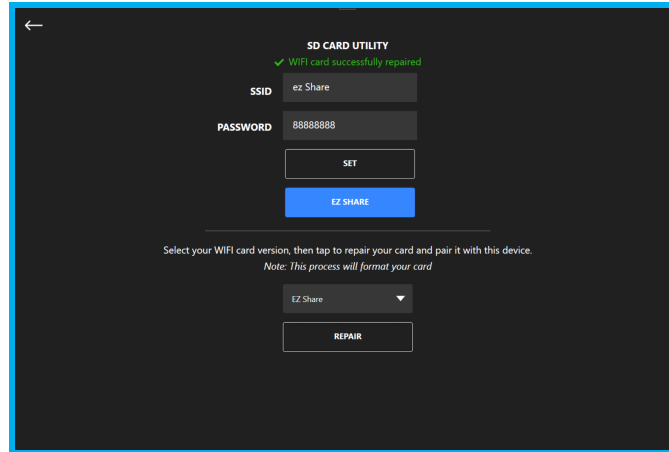
EZ SHARE

Select your WiFi card version, then tap to repair your card and pair it with this device.
Note: This process will format your card

EZ Share ▼

REPAIR

5. Click the **Repair** button. Then after the repair is complete, you will see the message “*Wi-Fi card successfully repaired.*”



6. Remove the USB SD Card Adapter from the console, and the card from the adapter.
7. Insert the ez Share card back into your camera.
8. Restart the IDW520 console.
9. Power ON the camera.
10. You should see the green camera icon and text "ez Share" in the top right corner of the screen.

Toshiba FlashAir Card Procedures

Use this section for the Toshiba FlashAir card.

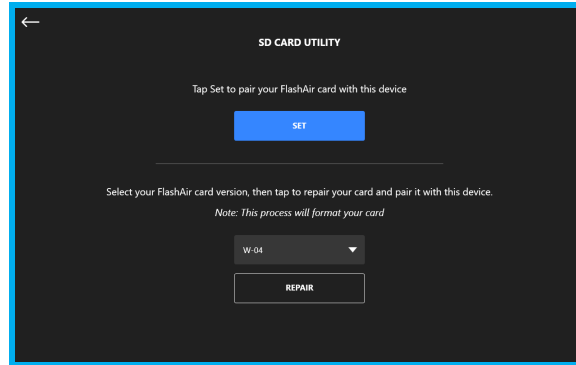
Setting the FlashAir SSID Number

The IDW520 SD Wi-Fi card must be paired to the IDW520 console. If you have received a replacement FlashAir card or are instructed to reset the SSID on your existing card by a support technician, use the following procedure to do so.

Setting or resetting a card allows you to change the network label of the card to coincide with the IDW520 console. The IDW520 SSID name can be found on the main display in the upper right corner of the LCD and on the POST printout. The name must match exactly.



When renaming the SSID, you must first set the card, then set the console SSID to match.



1. Insert the card into the SD card adapter and into the console.
2. Press the **Maintenance** icon to open the maintenance screen.
3. Select **SD Recovery Utility**.
4. Press the **Set** button.
5. Your card's SSID number is now set to work with your IDW520 system.
6. If setting the SSID number doesn't work unplug the SD card adapter, replug it, and try the procedure again.

Repairing the FlashAir SD Card

You can repair, or reformat, your SD card if the data has been corrupted or you've added a new card to your system. If you use the repair option, any data that is stored on the card will be erased.

1. Press the **Maintenance** icon to open the maintenance screen.
2. Select **SD Recovery Utility**.
3. Select the SD card **W-0X version** from the drop-down list. The W-0X version is usually stated on the front of the card.
4. Press the **Repair** button.
5. If repairing the card doesn't work, unplug the SD card adapter, replug it, and try the procedure again.



Install Local Updates

The IDW520 can be updated using USB flash device and downloading the IDW update from the DNP website. Certain improvements and changes will be added to the system operation

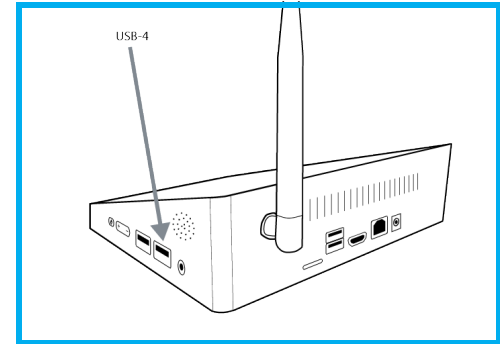
NOTE

Updates cannot be un-installed.

1. Press the **Maintenance** icon to open the maintenance screen.
2. Tap the **Clear Image Queue** button to empty the image gallery before proceeding and ensure the Camera is turned off throughout the process.
3. Tap **Admin Mode** and enter the admin password to access the local update button.

NOTE

Skip this step if your version shows the **Install Local Updates** button on the main level.



4. Insert the USB drive with the update file into the **USB-4 port** on the side of the console.
5. Tap the **Install Local Updates** icon.
6. Follow any on-screen prompts to complete the update.

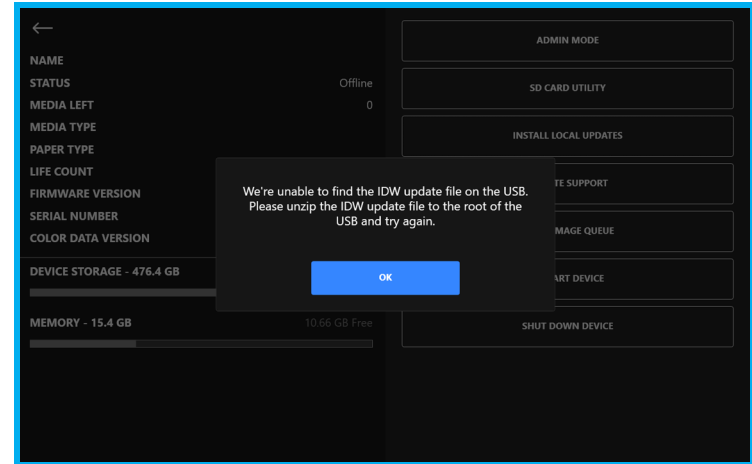
IMPORTANT NOTES ON PERFORMING THE IDW520 UPDATES

Please read the update Install Instructions carefully and follow all the steps including any and all preparation steps. Failure to follow the steps or perform the preparation may result in a failed update.

Always empty the image gallery of the IDW using the **Clear Image Queue** button in the maintenance menu prior to performing the update.

Use of a USB v3.0 flash drive is recommended.

When the IDW update software is delivered in a ZIP file, the ZIP file must be decompressed on your PC prior to loading the update onto the USB drive. The IDW update file must be copied to the root folder of the USB flash drive for the IDW update button to find it. If the ZIP file is not decompressed and not copied to the root file of the USB flash drive, you will receive the following error message.



Checking for Remote Updates

Software Updates for the IDW520 console can be accessed remotely via the Internet and automatically installed.

NOTE

Prior to checking for remote updates, the IDW520 console must be connected to the Internet with an Ethernet cable (using the port on the back of the console.) The Wi-Fi connection will not provide Internet access to update the system.

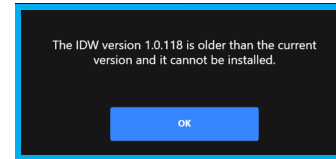
The Image Gallery must be empty prior to performing the version update. Use the maintenance mode **Clear Image Queue** button and ensure the Camera is turned off throughout the process.

1. Press the **Maintenance** icon to open the maintenance screen.
2. Tap **Admin Mode** and enter the admin password.

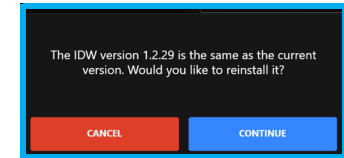
3. Select the **Remote Update** button. It can take a few minutes to check for the updates.

NOTE:

If the version update is older than the version currently installed on your IDW console, you will receive the following message:



If the version update is the same as the version currently installed on your IDW console, you will receive the following message.



4. Follow any prompts or instructions on the screen to complete the update process.
5. The system will restart when the update completes. If it does not restart upon the completion of the update, manually restart the console.

Quick Support

The IDW processor console has the ability to be accessed remotely by DNP Tech Support. This function is useful to diagnose and resolve certain issues. Use this option only when instructed to do so by a Technical Support Agent. A scheduled appointment is necessary.

NOTE:

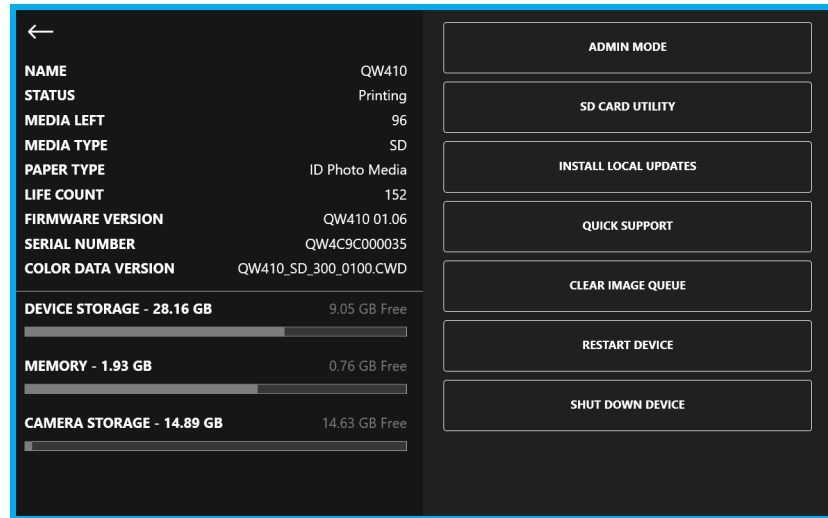
The IDW console must be connected to the Internet for this function to operate.

1. Press the **Maintenance** icon to open the maintenance screen.
2. Tap **Admin Mode** and enter the admin password.
3. Select the **Quick Support** button. It can take up to thirty (30) seconds for the software to connect.
4. Follow any prompts or instructions that are given to you by the technical support agent to complete the sign on process.

Clear Images Queue

You can remove the images that are displayed in the image gallery of your console.

1. From the dashboard, press the **MAINTENANCE** icon at the bottom of the screen.
2. Tap the **CLEAR IMAGE QUEUE** button.
3. You're asked if your sure you want to delete the images. Press **YES** to continue or **NO** to cancel.
4. Any images that were on your console have now been removed from the image gallery.
5. Press the **return arrow** (top right corner) to return to the IDW520 home screen.
6. Tap the image and press the **Delete** button.



Resending Images from the Camera

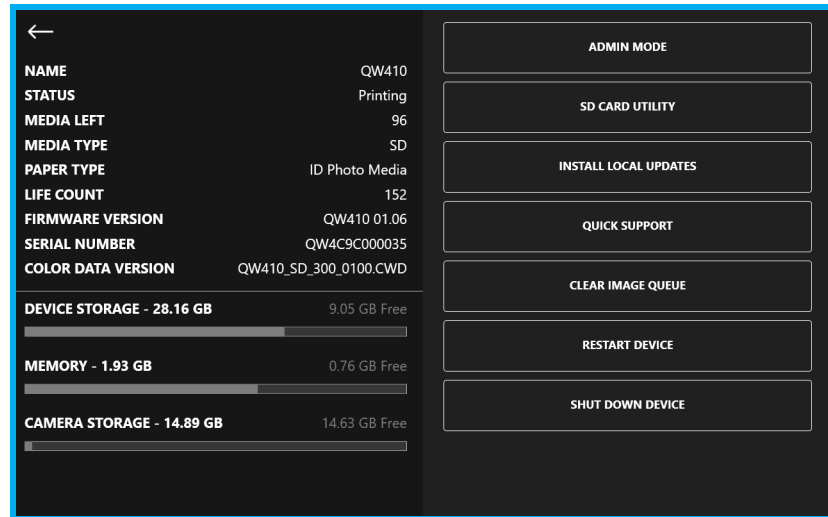
1. When the images are removed from the Image Gallery, they can be resent from the camera as needed. The Image Gallery will automatically be cleared overnight when the IDW520 system is left running. There is a configuration control to enable/disable this function.

Refer to the detailed instructions in “Reprinting an Image” on page 49.

Restart Device

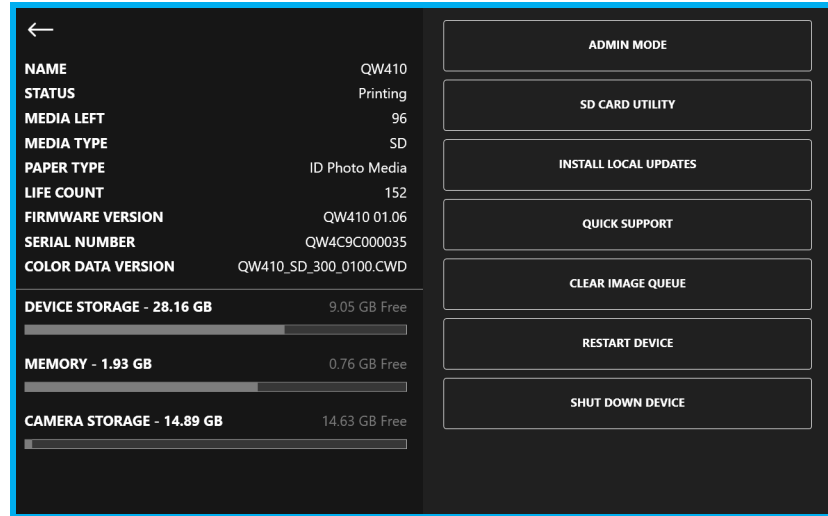
You can remove the images that are displayed in the image gallery of your console.

1. From the dashboard, press the **MAINTENANCE** icon at the bottom of the screen.
2. Tap the **RESTART DEVICE** button.
3. You're asked if your sure you want to restart the device. Press **YES** to continue or **NO** to cancel.



Shutdown Device

1. From the dashboard, press the **MAINTENANCE** icon at the bottom of the screen.
2. Tap the **SHUTDOWN DEVICE** button.
3. You're asked if you're sure you want to restart the device. Press **YES** to continue or **NO** to cancel.



Troubleshooting

In this Chapter

General Troubleshooting Steps 112

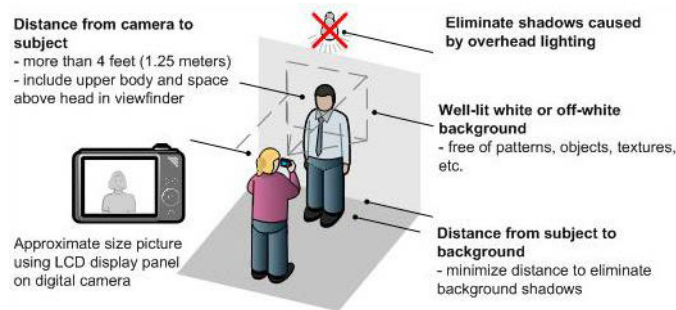
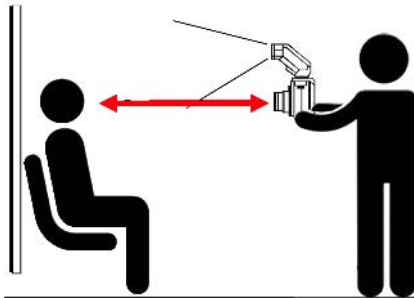
General Troubleshooting Steps

If you experience any issues with your system use the steps below to troubleshoot the issue. To find out the version of software running on your system, look in the upper right corner of the dashboard.

1. Did the IDW520 print a test page when you powered ON the system?
 - ❖ **YES:** Continue with step 3.
 - ❖ **NO:** Check the printer ready state. Only the **Green Light** should be **ON**. If the printer has only green lights, continue with step 3. If the printer state is anything besides idle (green lights), check the printer for error conditions and check that the media is properly loaded. Continue with step 2.
2. Power cycle the IDW520 console and ID printer.
 - ❖ On the rear of the printer, toggle the power switch to OFF for a few seconds, and then toggle it back to ON. Wait for the printer to be ready single Green light is on at the front of the printer.) On the IDW520 console, touch the **GEAR** icon. From the menu, press the **SHUTDOWN IDW520** button. Only as a last resort, if the shutdown option does not work, press the POWER button on the right side of the unit, and when the menu appears, select **Reboot** from the menu. A test print should print after the unit completes the restart.
3. Check the IDW520 printer status icon. If the printer is shown to be in a ready state, continue below. If the printer isn't in a ready state, check for and clear any issues then power cycle the printer and the console to continue.
4. Verify that the camera has at least half battery power available.
5. If the camera has less than half of the battery power remaining, recharge the camera batteries.
6. Make sure you are standing within 10 feet of the IDW520 console when transferring the image. Closer is better.
7. If you are in an environment with a large amount of wireless traffic, try standing closer to the unit.

8. Look for the **CAMERA FOUND** message on the console screen. Verify that the camera icon in the top right corner is green.
9. If there is no message, power cycle the camera and wait to see if the system discovers it.
10. **Poor Image Print Quality.** Lighting the subject properly is very important to good picture taking. While the Camera and IDW processor will auto-adjust image brightness within its limits, having a properly lit subject and background is key to good ID photos. Bright natural light or diffused room lighting will provide the best illumination. Some lighting conditions to avoid:

- ◆ Avoid bright lights directly overhead, the face must be illuminated.
- ◆ Avoid locations with direct sunlight which can cause harsh shadows or improper lighting on the whole face.
- ◆ Avoid lighting from one side or the other.
- ◆ When using the camera flash be sure the subject is close to the background to minimize the harsh shadows.



11. If you are still experiencing issues with your system, contact DNP IAM technical support at 855-367-7604.

Acknowledgements

In this Chapter

License Agreements	116
Other Agreements	119

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Image Scaling Utility Class

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Glenn Randers-Pehrson (glennrp at users.sourceforge.net) March 16, 2017

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Appendix A: Sony Camera

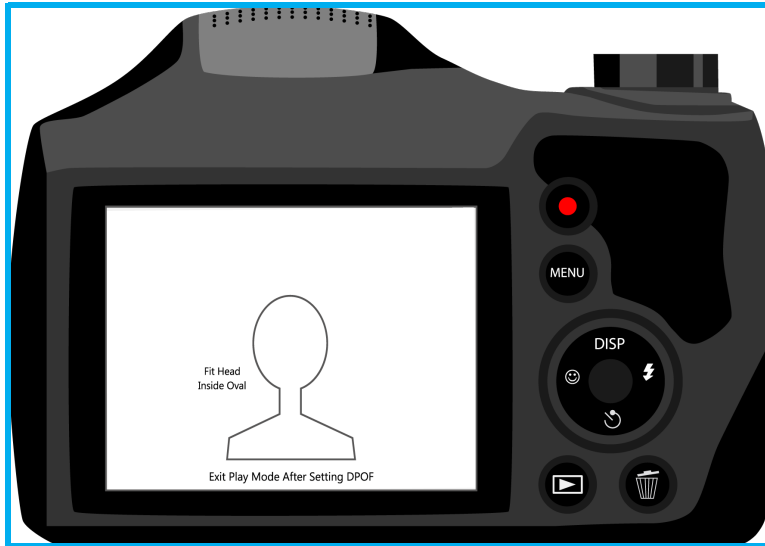
In this Chapter

Depending on your system setup, you may be required to use an approved Sony digital camera with your IDW520 system. Use the instructions in this chapter to properly operate your camera with your IDW520 system.

Preparing the Sony Camera	123
Your Sony Camera Controls	125
Transfer and Print (Sony Camera)	127
Deleting an Image (Sony Camera)	129
Deleting all Images (Sony Camera)	130
Using the Sony Camera Flash	131
Sony Camera Settings	132

Preparing the Sony Camera

1. Remove the camera from the shipping box. Be sure to remove any packaging material from the camera.
2. The camera batteries must be charged prior to use. Use the supplied battery charger and allow at least 2 hours to fully charge the batteries before proceeding.
3. The camera comes pre-configured for IDW500 operations, including an LCD guideline cling on the camera display.



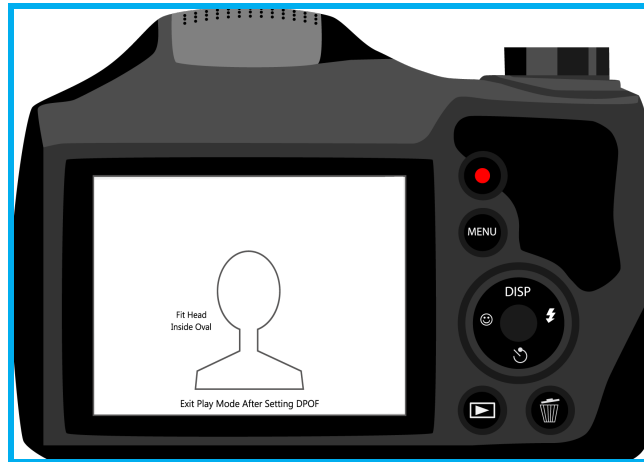
4. Connect the camera strap and the lens lanyard to the camera.
5. Set the camera aside while the batteries charge so that you can set up the rest of your IDW520 system.
6. Locate the SD Wi-Fi card that came with the kit. Install the SD Wi-Fi card in the camera compartment, which is located in the camera base.

Your Sony Camera Controls

Use the diagram below to identify the areas of your passport camera you will use with the IDW520 system. While there are more settings and functions available on your camera, DNP Imagingcomm America Corporation recommends not changing other settings without first consulting Technical Support. For more information about other settings and camera controls, see your camera user manual.

ATTENTION

The settings in this section only apply to the Sony DSC-H300 digital camera. Using the following settings optimizes your Sony H300 camera for use with DNP IDW520 system.



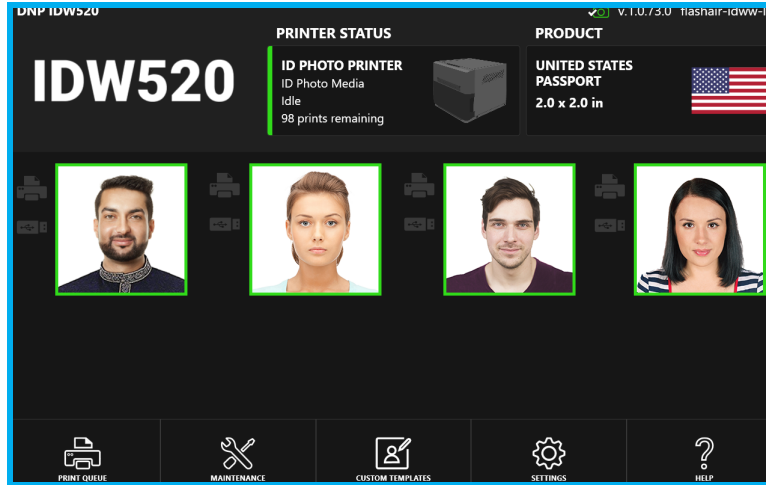
- ❖ **LCD Viewer:** The large view area on the back of the camera. Use the LCD viewer to preview your passport photos prior to sending the image to the IDW520 console for printing. The template overlay sticker allows you to take perfectly aligned ID photos every time.
- ❖ **Control Wheel:** The control wheel – to the right of the LCD viewer – is used to access many camera functions. Use the wheel to access menus as well as to move within menus. For the purposes of this document, the ▶ ▲ ▼ and ◀ icons (right, up, down, and left) will be used to demonstrate moving within menus. The **SELECT** button is the button in the middle of the control wheel.
- ❖ **Playback Button:** Opens the playback screen - where images you have taken are displayed for your review.
- ❖ **Menu Button:** Accesses the main camera menu. Use this button to send images to the IDW520 console via the DPOF transfer method.
- ❖ **Mode Dial:** This dial allows you to select the desired recording mode. It is located on top of the camera. The dial should be set to **P**, as indicated in the image to the right. Rotate the dial **P** is selected.




Transfer and Print (Sony Camera)

1. If you haven't already, power ON your camera and take the passport photo.
2. Stand no more than 15 feet from your IDW520 console. Listen for the audio indication and message to tell you that your camera is connected to the console. Watch the console home screen for the **CAMERA FOUND**. It will appear at the bottom of the screen, indicating a good connection.
3. Press the **PLAYBACK** on the back of the camera.
4. Once the camera is in playback mode, press the **MENU** button.
5. Scroll up ▲ to the **DPOF PRINT** option (the last image is displayed).
6. Press **SELECT**. The image now shows a DPOF tag on the screen.
7. Immediately return to shooting mode. You can press the **SHUTTER** button or the **PLAYBACK** button to do so.
8. Do not leave the camera in playback mode. Doing so will cause the image marked as DPOF to be continuously sent to the IDW520 console for printing. Also note, that if multiple images are marked with DPOF, the images will take longer to transfer from the camera to the console and for the console to process multiple images at the same time. The image begins to transfer. You can hear the sync sounds as the console accepts the image.

9. First, a “ping” occurs as the camera is recognized by the IDW520 console. The console displays a **CAMERA CONNECTED** message. Next a Electronic sound occurs as the image is transferred – **DOWNLOADING IMAGES** is displayed on the screen. Once the images have downloaded, the message **PROCESSING IMAGES** is displayed.



Deleting an Image (Sony Camera)


1. On the camera, press the  (Delete) button on the back panel of the camera.
2. Select the image you want to delete and then press **SELECT** button.
3. DO NOT format the SD card to delete the images. The card programming for the system will be lost if you format the card. See “SD Card Utility” on page 83 if the SD card becomes damaged or formatted.

NOTE:

Do NOT use the Format Memory Card function to clear the images.

Deleting all Images (Sony Camera)

The images should be deleted from the camera storage on a daily basis. This is easily accomplished using the Trashcan button on the back of the camera.

1. On the camera, be sure that you are in **playback mode** (play button).
2. Press the  **Delete** button (trashcan button).
3. Select the **Delete All Images on this Date** option and press the **Set** button.
4. You can also select the **Delete Multiple** or **Delete Single** options.

NOTE:

Do NOT use the Format Memory Card function to clear the images.

Using the Sony Camera Flash

The flash is automatically enabled at the factory. Use the camera flash if needed to increase the quality of your photos. Using the flash is recommended as a last resort to brighten photos. Due to passport/id photo requirement, off-camera lighting is best to properly light the subject.

NOTE:

For more information about enabling the flash, see your camera user manual.

1. Press the **FLASH** button on the back of the camera to open the flash hood and use it.

NOTE:

If your images are consistently dark and do not show the necessary details of the subject's face (under exposed, too many shadows, unable to clearly see details), changing the exposure compensation can help correct the issue. You can make this change by pressing the **Q.Menu** button and scrolling to the desired option.

Sony Camera Settings

Please verify that your camera's settings match the ones listed in the table below:

NOTE:

The Wi-Fi SD card is unique to your camera and console system and are paired as a set. Do not use other cards or reformat the card you received with your system. For information on setting up or repairing your SD card, see "SD Card Utility" on page 83.

If you need to return your camera to the IDW520 system default settings, use the following information. Be careful to change only the settings you see here unless you are instructed to do so by a technical support technician.

ATTENTION:

The settings in this section only apply to the Sony Camera. Using the following settings optimizes your camera for use with the IDW520 system.

Many of the menu sections have multiple pages of options. Use the **Control Wheel** scroll through the options.

Press the **MENU** button.

From the tabs on the left side of the LCD screen, select the menu section. Make the following changes under the specified sections.

Setting	Default Value	Description
Mode Dial	P	Sets the camera shooting mode.
Press MENU to find the following settings		
Picture Effect	OFF	Filters that are not allowed on ID photos.
Still Image Size	4:3.5M	Size of the image the camera takes
Exposure Compensation	0	Brightness of the photo. May vary if lighting conditions are poor.
ISO	AUTO	Image sensitivity setting (details seen within the image).

Setting	Default Value	Description
White Balance	AUTO	Adjusts the colors in the image for natural look.
Focus	Center AF	Center auto-focus mode
Metering Mode:	Center	Measures brightness so exposure and white balance can be compensated.
Con. Shooting Setting	Single Shooting	Only one image is taken when the shutter button is pressed.
Bracket Setting	OFF	Allows for multiple images to be captured.
Smile Detection Sensitivity	Normal Smile	Automatically captures image when a smile is detected.
Face Detection	OFF	Will auto-focus on faces within the image area.

Setting	Default Value	Description
DRO	Standard	Adjusts image tone.

Appendix B: Panasonic Camera

In this Chapter

Panasonic Camera Settings	137
Camera Buttons	138
Panasonic Camera Settings	142
RECORD Menu	142
MOTION PICTURE	142
Panasonic Camera Settings (continued) ..	143
CUSTOM Menu	143
Panasonic Camera Settings (continued) ..	144
FN BUTTONS (Custom Menu).....	144
RECORD MODE:	144
PLAYBACK MODE	144
SETUP Menu	144
BEEP:	144
ECONOMY	144

Panasonic Camera Settings

Please verify that your camera's settings match the ones listed in this section.

ATTENTION:

The Wi-Fi SD card is unique to your camera and console system and is paired as a set. Do not use other cards or reformat the card you received with your system. For information on setting up or repairing your SD card, see "SD Card Utility" on page 83.

If you need to return your camera to the IDW520 system default settings, use the following information. Be careful to change only the settings you see here unless you are instructed to do so by a technical support technician.

ATTENTION:

The settings in this section only apply to the Panasonic FZ80 Camera. Using the following settings optimizes your camera for use with the IDW520 system.

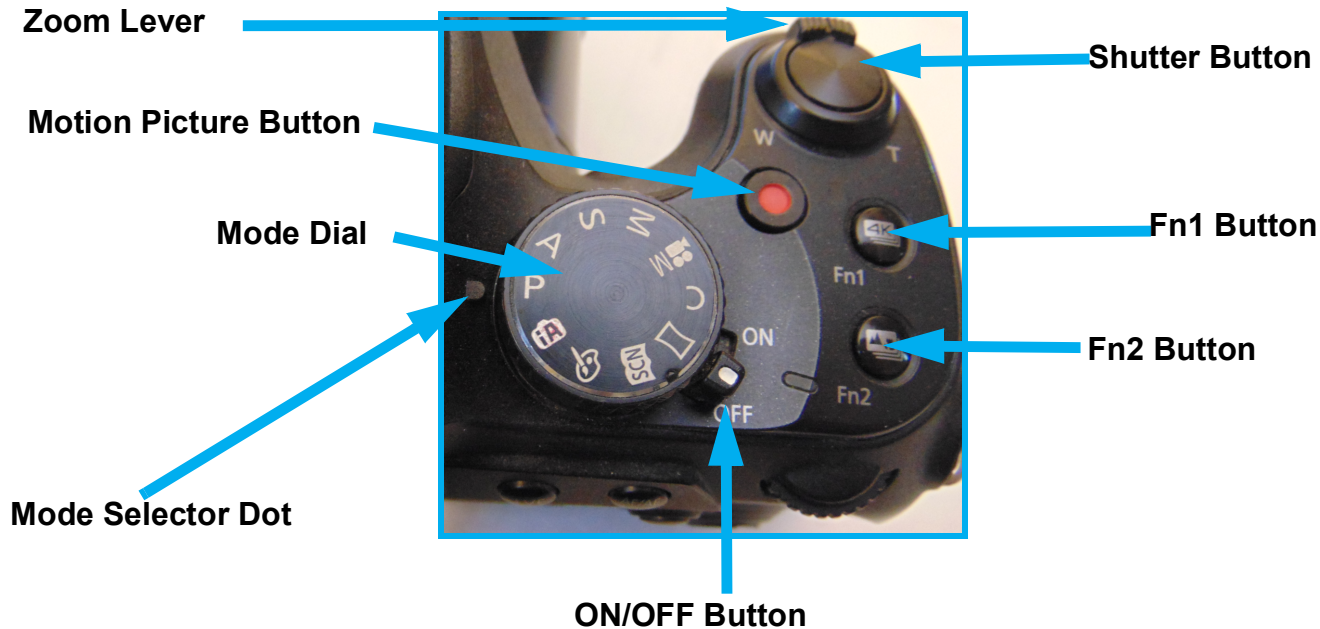
Many of the menu sections have multiple pages of options. Use the **Control Wheel** scroll through the options.

Press the **MENU** button.

From the tabs on the left side of the LCD screen, select the **MENU** section. Make the following changes under the specified sections.

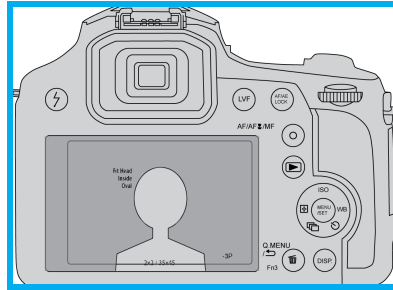
Camera Buttons

The top of your camera contains the Zoom Lever, Shutter Button, Motion Picture Button, Function 1 Button (F1), Function 2 Button (F2), Camera ON/OFF Button, and Mode Dial.



- ❖ **Zoom Lever:** Allows you to adjust the area of a photo.
 - ◆ **T side:** Telephoto. Enlarges the subject.
 - ◆ **W side:** Wide-angle. Captures a wider area.
- ❖ **Shutter Button:** Pushing this button halfway to focus on the subject. Pushing this button fully takes the photo.
- ❖ **Function 1 (Fn1) Button:** Frequently used functions can be assigned to the Function buttons.
- ❖ **Function 2 (Fn2) Button:** Frequently used functions can be assigned to the Function buttons.
- ❖ **Camera ON/OFF Button:** Turns the camera ON or OFF.
- ❖ **Mode Dial:** Allows you to select the desired recording mode.
 - ◆ **IA:** Allows you to point and shoot as the camera optimizes settings to match the environment the photo is being taken.
 - ◆ **P: Takes the photo using Program mode, automatically setting the best aperture and shutter speed. This is the default setting for ID photo operations.**
 - ◆ **S:** Allows you to set the shutter speed.
 - ◆ **M:** Allows you to manually set the aperture value and shutter speed.
 - ◆ **C:** Allows you to customize your camera settings.

The buttons on the back of the camera provide quick access to some camera settings. Most camera settings can be reached from the camera menu screens.



- ❖ **LCD Viewer:** The large view area on the back of the camera. Use the LCD viewer to preview your passport photos prior to sending the image to the IDW520 console for printing. The template overlay sticker allows you to take perfectly aligned ID photos every time.
- ❖ **Lightning Bolt:** Opens the flash hood.
- ❖ **LVF:** Changes the view from the LCD screen to the eye piece LCD. The LCD Viewer on the back of the camera is the preferred display for proper alignment and sizing.
- ❖ **AF/AF Macro/AF Zoom/MF:** Auto focus button. **AF** is the preferred focus method.
- ❖ **Playback Button:** Opens the playback screen - where images you have taken are displayed for your review.
- ❖ **Control Wheel:** The control wheel – to the right of the LCD viewer – is used to access many camera functions, particularly the exposure value functions. Use the wheel to access these functions. For the purposes of this document, the ► ▲ ▼ and ◀ icons (right, up, down, and left) will be used to demonstrate moving within menus. The **MENU/SET** button is the button in the middle of the control wheel.

- ❖ **Q.Menu/RETURN/Fn3/TRASH Button:** Multi-functional button that accesses multiple menus, acts as a back/return key, and brings up the trash menu in playback mode. In Q.Menu, use the control wheel to navigate to the proper settings. Use the settings below as needed.
 - ◆ **STD** – Standard Photo Style
 - ◆ **Flash Forced On /Red Eye** – default is Forced On without red eye.
 - ◆ **MP4** (not applicable / not used in IDW)
 - ◆ **Picture Setting** - 4:3 exS
 - ◆ **Quality** – Fine
 - ◆ **Auto Focus** – AFC
 - ◆ **Auto Focus Mode** – Diamond area
 - ◆ **Metering Mode** – Center Weighted
 - ◆ **Exposure Compensation** – 0 (Centered, Zero)
 - ◆ **Sensitivity** - Auto
 - ◆ **White Balance** – AWB Auto White Balance

NOTE:

The settings available in Q.Menu are tied to the Mode Control knob on top of the camera.

- ❖ **DISP. Button:** Display button that changes the LCD views between view camera details, view with no camera details, and view OFF.

Panasonic Camera Settings

The camera settings here are recommend by DNP for optimal ID photo picture taking. For unique or difficult lighting condition, please contact DNP support for advice changing or using other settings.

RECORD Menu

- ❖ Aspect Ratio (menu pg. 1): 4:3
- ❖ Picture Size (1): S.4.5.M
- ❖ Meter Mode (2): CENTER
- ❖ Burst Rate (2): L
- ❖ Shutter Type (5): AUTO
- ❖ ISO Increments (6): 1/3 EV

NOTE: Camera Image Size

For normal operation, the **S.4.5.M** image size is recommended. Changing this camera setting to a larger image size (Medium or Large) will transfer a larger image, which increases the resolution and size of the transferred image files. This may be necessary for certain government requirements for image uploads. Using larger images files will also result in longer IDW520 processing times.

NOTE: Camera Aspect Ratio

For normal operations, 4:3 aspect ratio is recommended. However, using 1:1 aspect ratio will optimize the image size and allow the IDW to perform better in some cases.

MOTION PICTURE

- ❖ Record Format (menu pg. 1): AVCHD

<Panasonic Camera Settings continued on next page>

Panasonic Camera Settings (continued)

CUSTOM Menu f_c

- ❖ Focus Release Priority (menu pg. 3): FOCUS
- ❖ MF Assist (3): OFF
- ❖ MF Guide (4): OFF
- ❖ Peaking (4): OFF
- ❖ Center Marker (4): ON
- ❖ Expo.meter (5): OFF
- ❖ Auto Review (7): HOLD
- ❖ Fn Button Set (7): See "FN BUTTON SETTINGS (5)"
- ❖ Lens Position Resume (7): ON
- ❖ Video Button (8): OFF
- ❖ Touch Setting (8): OFF

<Panasonic Camera Settings continued on next page>

Panasonic Camera Settings (continued)

FN BUTTONS (Custom Menu)

Find the **Custom** button settings on page 7 of the Custom menu. The Fn (Function) buttons on your camera can be set to custom options and those option can be different depending on if you're in RECORD or PLAYBACK mode. Below are the required settings for each mode.

RECORD MODE:

- ❖ Fn1: FLASH MODE
- ❖ Fn2: GUIDE LINE
- ❖ Fn4: PREVIEW
- ❖ Fn6: SILENT MODE

PLAYBACK MODE

- ❖ Fn1 PRINTER ICON
- ❖ Fn2: PRINTER ICON

SETUP Menu

BEEP:

- ❖ Beep Vol (menu pg. 2): LOUD
- ❖ Shutter Vol (2): LOUD
- ❖ Shutter Tone (2): #2

ECONOMY

- ❖ Sleep Mode (menu pg. 3): 2 minutes
- ❖ Sleep Mode WIFI (3): ON
- ❖ Auto LVF Monitor (3): 2 minutes

Appendix C: Supported Countries

In this Chapter

Supported Countries 146

Supported Countries

The following table contains the ID templates (listed by country) that are already loaded on your IDW520 system. Information regarding the particular ID requirements for each country is also referenced.

Country	Units	Width	Height
Albania	mm	40	50
Argentina Passport & Visa	mm	40	40
Australia Passport & Visa	mm	40	50
Brazil Passport & Visa	in	2	2
Canada Passport	mm	50	70
Canada Visa	mm	35	45
Canada Citizenship	mm	50	70
Canada Permanent Resident	mm	50	70
Canadian Firearms	mm	45	57

Country	Units	Width	Height
Handi Dart (Canada)	mm	32	32
Sante Quebec (Canada)	mm	50	70
Chile Passport	mm	45	45
Chile Visa	mm	45	45
China	mm	33	48
Columbia Passport	mm	38	64
Columbia Visa	mm	30	40
Dominican Republic Passport	mm	50	50
Dominican Republic Visa	in	2	2
Ecuador Passport & Visa	mm	50	50
European Union Passport & Visa	mm	35	45

Country	Units	Width	Height
Finland	mm	36	47
France	mm	35	45
Germany Passport & Visa	mm	35	45
Greece Passport	mm	40	60
Greece Visa	mm	35	45
Hong Kong	mm	40	50
India Passport	in	2	2
Israel	mm	50	50
Italy	mm	35	45
Jamaica	mm	35	45
Japan Passport	mm	35	45
Japan Visa	mm	45	45

Country	Units	Width	Height
Japan Residence	mm	30	40
Mexico Passport & Visa	mm	35	45
Pakistan	mm	35	45
Peru Passport & Visa	in	2	2
Russia	mm	35	45
Spain	mm	30	40
UAE Passport & Visa	mm	43	55
UK	mm	35	45
US	in	2	2
Uruguay Passport & Visa	in	2	2
Vietnam Passport	mm	40	60
Vietnam Visa	in	2	2

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