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You can read the recommendations in the user guide, the technical guide or the installation guide for PRIMERA DP-4102. You'll find the answers to all your questions on the PRIMERA DP-4102 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual PRIMERA DP-4102
User guide PRIMERA DP-4102
Operating instructions PRIMERA DP-4102
Instructions for use PRIMERA DP-4102
Instruction manual PRIMERA DP-4102

110124-511276

DP-4100
DISC PRINTER
DP-4101
DISC PUBLISHER
DP-4102
DISC PUBLISHER

USER'S MANUAL
For Macintosh and PC



24 Months Warranty
PRIMERA
Disc Publisher Product

*after registering your product. See www.primera.warranty.com for terms and conditions.

PRIMERA
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Manual abstract:

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Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. @@@@ However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Re-orient or relocate the receiving antenna. · Increase the separation between the equipment and receiver. · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for help. Use of shielded cables is required to comply with the Class A limits of Part 15 of the FCC Rules. You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate and/or obtain warranty service for this equipment.

For Users in Canada: This digital apparatus does not exceed the Class A limits for radio noise for digital apparatus set out on the Radio Interference Regulations of the Canadian Department of Communications. Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la class A prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada. CAUTION! TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THE UNIT TO RAIN OR MOISTURE. TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE EXTERIOR PANELS. NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. OPERATE THE UNIT WITH ONLY THE PROPER ELECTRICAL SPECIFICATIONS AS LABELED ON THE PRINTER AND AC ADAPTER. CAUTION! THIS PRODUCT CONTAINS A LASER DIODE OF A HIGHER CLASS THAN I. TO ENSURE CONTINUED SAFETY, DO NOT REMOVE ANY COVERS OR ATTEMPT TO GAIN ACCESS TO THE INSIDE OF THIS PRODUCT. REFER ALL SERVICING TO QUALIFIED PERSONNEL. THE FOLLOWING LABEL APPEARS INSIDE YOUR UNIT: CLASS 1 LASER PRODUCT LASER KLASSE 1 CAUTION! USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION. ii Table of Contents Section 1: Getting Started....

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.50 iii iv Section 1: Getting Started THANK YOU... ..for purchasing a DP-4100 Series Disc Publisher. A Disc Publisher is the perfect all-in-one solution for producing professional looking discs. A wide variety of disc formats are supported, including audio CDs, DVD Video, data discs and more. Operation is simple and completely automatic once a project has been started. To begin using your Disc Publisher, please read this manual carefully. This Operator's Manual is a complete step-by-step guide to quickly and easily create discs with your new Optical Disc Publisher. A separate Help file is provided with your Publisher that explains the operation of the PTPublisher Software. Click the icon in the software to access the help file.

NOTE ON TERMS AND CONVENTIONS: From this point forward, the following terms and conventions will apply: The DP-4101 and DP-4102 Disc Publisher will be abbreviated simply as the Publisher. The DP-4100 Disc Printer will be referred to as the Disc Printer. Optical discs, which can include many different types of discs including CD-Rs, CD-RWs, DVD+/-Rs, BDRs and more are all referred to as CDs or discs. Please note that in order to copy and record BDRs, you will need to have purchased the Blu-ray version of the Publisher. Getting Started 1 A.

NOTE ON MODEL DIFFERENCES The DP-4100 Series comes in five different models including: · DP-4100 Disc Printer (No Drives) Print Only - See Section 3A, C and D. · DP-4101 (1 DVD Drive) Burns and Prints CD, DVDs and DVD-DL · DP-4102 (2 DVD Drives) Burns and Prints CD, DVDs and DVD-DL · DP-4101 Blu (1 BDR Drive) Burns and Prints CD, DVD, DVD-DL, BDR and BDR-DL · DP-4102 Blu (2 BDR Drives) Burns and Prints CD, DVD, DVD-DL, BDR and BDR-DL These instructions are written to apply to all models. For example there are no special instructions for burning Blu-ray Discs™ if you have a Blu-ray model. The software simply recognizes that you have Blu-ray capable drives and adds the BDR media type to the list of available media to burn. Important Note: The DP-4101 Blu or DP-4102 Blu requires the Disc Publisher to be connected to the computer USB for printing AND eSata cable(s) for the drives. Both eSATA and USB are required! The eSATA PCI express card included with the unit may need to be installed if you do not already have eSATA ports on your computer. Refer to the instructions included with the card for more details. B. CHOOSING A GOOD LOCATION · Place the Publisher in a location with adequate air circulation to prevent internal heat build up. You will need at least 24" (61 cm) of overhead space to allow the top cover to open freely.

Do not place the Publisher near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock. · 2 Getting Started C. UNPACKING AND INSPECTION While unpacking your Publisher, inspect the carton to ensure that no damage has occurred during shipping.



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Make sure that all supplied accessories are included with your unit. The following items should be included: · Optical Disc Publisher · Gray Plastic Input and Output Bins · Power Cord · Cyan, Magenta, Yellow and Black Ink Cartridges · Replaceable Print Head · QuickStart Installer Disc · USB 2.0 Interface Cable (Beige) · eSATA cable(s) (Blu-ray only) · eSATA card (Blu-ray only) · Quick Start Guide and Other Printed Information Save the carton and packing materials. They will come in handy later if you ever need to transport the Publisher and/or any of its parts and accessories. FRA GIL E Getting Started 3 D. IDENTIFYING THE PARTS Front Panel and Top This illustration shows the DP-4102, its Control Panel, Buttons, LED indicator lights, Input and Output Bins and other components. Front Cover Control Panel / Status Lights Ink Cartridge Carrier Power Button Ink Cartridge Button Robotic Disc Transporter Recorder Tray Button Input Bin Output Bin Reject/Kiosk Area CD/DVD Recorders The Robotic Disc Transporter moves discs from the Input Bin, to a CD/DVD Recorder, to the printer, and finally to the Output Bin.

The CD/DVD Recorder is automatically loaded and unloaded by the Publisher's Robotic Disc Transporter. The Recorder Tray Button manually opens or closes the Recorder Tray. In normal operation, the in/out movement of the Recorder Tray is controlled automatically and this button is not used. 4 Getting Started The Control Panel contains LED Status Lights and Buttons to control the Publisher. The LED Status Lights indicate that Power is ON.

They also blink in certain patterns to indicate an error or other condition of the Publisher. See Section 4 for a full explanation of the LED Status Light conditions. The Power Button turns the Publisher's power ON and OFF. When the front cover is opened, the Ink Cartridge Button is used to position the Ink Cartridge to change the cartridge to continue. To change a cartridge, follow this procedure: 1.

Open the Cover and press the Ink button. The head carriage will move to the center of the print area for easy access. 8 Getting Started 2. Remove the cartridge by pressing the corresponding colored tab on the back of the print head. The cartridge will pop up slightly. 3. 4. Remove the cartridge. Locate a new cartridge and remove it from its packaging. Remove the foil outer package and the clear plastic shrink wrap.

Also remove the cartridge cap. Note: If you opened a cartridge but are not currently using it you can store the cartridge in the plastic cap shown above to prevent it from drying. Verify this information is correct and click the next arrow to continue. Disc Printer users Start here after choosing Print Only from the project starter window. 4. Select the print label file by clicking the select a label button. When you have selected print label file, click the next arrow. There are several ways to select a print file. See the explanations below for more information. For any job type you choose you will be prompted to select a label file to print.

You may select an existing label, create a label or choose to print nothing. Simply click the next arrow to print nothing on the disc. Otherwise follow the steps below. 4A. Select a Label 1.

Click the browse button to open a browse window to choose your print file. 2. Double Click on the file to add it to your project. You may add any BMP, JPG, TIFF, SureThing (PC) or Disc Cover (Mac) file. SureThing or Disc Cover files are automatically formatted correctly.

All other file types should be 4.72" x 4.72" square. For best print quality the image resolution should be at least 300 dpi. Creating Discs 13 4B. Create a Label 1. Click the Create a Label button to open the SureThing CD Labeler or Disc Cover program. These programs will allow you create a label. 2. Follow the instructions in Section 2C or D to create a label using SureThing or Disc Cover.

3. Once you have designed the label, save it and close the program. A message will appear asking if you would like to use the label file you just created in your current project. Click Yes to use it in your project. Once you choose your label a preview will be displayed. 5. After selecting your label to print it is important to check the Printer Settings. These settings are dependent upon the specific discs you are using. Each disc (media) brand or type has a different sized non-printable outer margin or inner diameter. It also has a different printable surface.

For Primera TuffCoat branded discs simply choose your media from the drop down list, the settings will be adjusted accordingly. Inner Diameter and Outer Margin (Printable Area). If you have other media, you may need to measure the unprintable outer margin and the inner diameter with a clear millimeter ruler to find the correct size to input here. For the outer margin, measure from the edge of the disc to the beginning of the white printable surface. For the inner diameter measure from one side of the unprintable hub to the other.

The unprintable inner diameter will almost always be larger than the center hole of the discs (15mm). 14 Creating Discs Print Quality. All Primera media is automatically defaulted to the best print quality. Other media may also accept the best quality setting. However, with some media you may have to print at a lower print quality to eliminate smudging and bleeding.

Some lower quality media can not hold all of the ink that is printed at the highest quality settings. Click the next arrow. Note: Additional print settings are explained in Section 2E. 6. The third and final step of any project is the summary screen. On this screen you can review the data and print selected for the project, set the number of copies, adjust burn options and name the job. Click the Options button to access burn speed and other options. If you do not adjust the project options, optimal settings will automatically be selected for you. Click the "Go" button to start the job. B.

USING PTPUBLISHER PTPublisher allows you to record and print CDs, DVDs, and BDRs (Blu-ray) using a variety of project types described below. When the software is opened these projects will be available from the main starter menu. You can also access them by clicking New Projects on the left navigation area. B.1 Project Types Note: "Print Only" Project is the only project available for AutoPrinters. Copy Project A Copy Project can be used to copy any CD, DVD, DVD-DL or Blu-ray master. This job type reads the master disc from the Disc Publisher drive to the hard drive of your computer. The master is stored in the Global Image format (*.gi) in a temporary location on your computer. PTPublisher uses this temporary file to make all subsequent copies that are requested.

The master disc is read only once to create the initial temporary file. Creating Discs 15 Recommended for: All CD, DVD or Blu-ray content or disc types (Audio CD, Data CD, Software Install Disc, Video CD, DVD Video, Blu-ray Video: CDR, DVD-R, DVD+R, DVD-ROM, DVD+DL, DVD-DL, BDR, BDR-DL, etc.



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). This is best used for single runs where you will not need to make additional copies of the master disc a later time. The project requires a master disc. If you do not have one use another project type. Data Project A data disc project allows you to create a data disc on a CD, DVD or BDR using files on your hard drive. You can replicate the file structure on your hard drive or you can create your own customized file structure. Recommended for: Use the data disc job to create software installation discs, or data discs containing image files, presentation files, PDFs, documents, MP3s or any other file type. Data discs can generally ONLY be read by computers.

Audio Project This project allows you to create an audio CD using WAV, MP3, AIFF or WMA files. Note: this procedure is not for copying already created and mastered original audio CDs. If you have already created a master audio CD in another application or this application and you would like to make additional copies, please use the Copy Project. Recommended for: Creating Audio CDs
Video Project This project involves extracting the Audio_TS and Video_TS folders from the master DVD or directing your DVD authoring software to output into Audio_TS and Video_TS folders instead of burning a master disc. For Blu-ray Video, this method involves extracting the Blu-ray folders from the master DVD or directing your Blu-ray authoring software to output into Blu-ray folders instead of burning a master disc. Note: The PTPublisher software was not meant for authoring DVDs or Blu-ray. You must use another software to burn a master DVD first. Make sure that disc plays and the menus work on all systems. You may also copy a master DVD using Copy Project or Image Project. However, the video project is the recommended method.

16 Creating Discs Recommend for: This method is especially useful if you are having compatibility problems with the formatting created by the DVD/Blu-ray authoring software or with the media type of the master disc. This method removes some potentially complicating variables from the DVD/Blu-ray Video creation process. This method eliminates the need for a master disc. Error or incompatibilities can be introduced into your master by the drive burning the master, the disc the master is burned on or the software burning the master. Instead, masters can be stored on a large hard drive. This allows you to burn additional copies at any time without locating the master. If a backup strategy is employed, hard drive storage is more reliable over the long term since it is not susceptible to scratching like a master disc. Image Project The Image Project allows you to copy any CD, DVD, or BDR master. You can use an existing image or create an image and then use it in the project. The master disc is read from the specified drive to the hard drive of your computer.

The master is stored in the Global Image format (*.gi) in a user specified location on your computer. PTPublisher uses this file to make all subsequent copies that are requested. The master disc is read only once to create the initial file. Recommended for: All CD, DVD or Blu-ray content or disc types (Audio CD, Data CD, Software Install Disc, Video CD, DVD Video, Blu-ray Video: CDR, DVD-R, DVD+R, DVD-ROM, DVD+DL, DVD-DL, BDR, BDR-DL, etc.

). This is best used for jobs that are repeated on a regular basis where you will need to make additional copies of the master disc at a later time. This project type stores the master on your hard drive. This saves the time it takes to read in the master and reduces the possibility of defects being introduced into the master disc. B.

2 Steps to any Project Step 1: Add Data Depending on your job type this step will be different. You may choose your master, choose data on your hard drive, choose tracks to your audio CD, choose your disc image or DVD or BDR video folders. Creating Discs **17** On most job types a volume label can also be created at this step. This is the label that will appear when this disc is inserted into a computer drive. When you have selected the data you would like to burn click the next button. Step 2: Add Print If you want something printed on your disc, this is where you choose an existing label or create it. Follow these steps. To select an existing label: 1. Click the browse button to open a browse window or drag and drop files to the print file box or click the drop down arrow to choose previously used labels. 2.

Choose any supported file types of JPG, BMP, TIFF, SureThing (PC) Disc Cover (Mac). Files should be 4.72"(120mm) square. For best print quality the image resolution should be at least 300 dpi. Non-conforming files will be stretched or increased in size to fill the full size of the disc. 3. Once the print file is selected a preview will be displayed. 4. At this point you may choose to move on to the next step by clicking the next arrow. However, there are print quality and print area settings that you may want to adjust.

5. Several preset media types that correspond with the media available at our webstore can be selected on the Media drop down box. When you select a media type from this box the Print Quality, Outer Margin and Inner Diameter are automatically adjusted to fit that media. 6. To manually set these settings simply edit them.

The media type will automatically change to Custom. You can save your adjusted settings by typing the name of the profile and clicking Save. This name and the associated settings will now be available to choose in the media drop down box. Below is a description of each of the available settings. · **Quality.** There are several choices here that correspond to the speed of the print and the saturation of the image. Higher quality = slower print speed and more vibrant and crisp prints. **18 Creating Discs · Outer Margin.** Discs from other manufacturers vary widely regarding how far the printable surface extends to the edge of the disc. Measure the distance from the edge of the disc to the start of the white printable area. This will be between 0 and 2 mm in increments of .1mm. · **Inner Diameter.** Discs from other manufactures vary widely regarding how far the printable surface extends to the inside of the disc. Measure the distance from one side of the inner non-printable center hub to the other.

This will be between 15 mm and 50 mm displayed in increments of .1mm. Note: Additional print settings are explained in Section 2E. To Create a new label:

1. Click the Create Label button. 2. The label design application SureThing (PC) or Disc Cover (Mac) will open. Design your label using the included backgrounds and clipart. You may also add your own image, add text and any other design features. 3. Save your label by going to the File menu - Save as. 4. Close SureThing or Disc Cover. 5. You will be asked if you would like to use the label you just created in your current project. Click Yes. 6. You may now choose to adjust print settings as described above. Step 3: Start Project (Summary - Settings) In this step you can verify data and print information and set the number of copies.



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Optionally you may choose to edit burn settings.

However, the default settings are optimized to give you the best quality burn. Simply click Go to start the job. A summary of all the options on this step is listed below. **Project Summary** This area displays information about the data you have chosen, a thumbnail and file name of the print file you have chosen and picture and description of the Disc Publisher Robot you have chosen. If any of this information is incorrect, use the back arrow at the bottom of the screen to go back to appropriate window to correct it. **Creating Discs 19 · Change Robot.** This is only available with multiple robots connected. Use this option to change the robot to which this project will be sent. **· Drives.** With a 4102 connected you can choose to burn to both drives or the top or bottom drive only.

· Protect Video with PTProtect (PC Only). This is only available in the DVD Video and ISO image Project with purchase of PTProtect USB dongle. See the PTProtect section for more information. **· Add to Project Set (PC Only).** This option allows you to add a project to a new or existing project set. A project set is a group of projects that you can save together. See Section 2 B.8 for more information. **· Save Project.** At the top of the summary window you can type the name of your job and then click save to save it anywhere on your computer.

A project file is a small file that holds the locations of files to be burned, the location of the print file to be printed, and any specific project settings such as burn speed and number of copies. Note: A saved project file does not include the data to be burned or the print file to be printed. If these files are moved or deleted, the project file will need to be edited to reflect these changes. **· Schedule Project.** @@For more information on this topic see Section 3B.

5. @@Below is a description of all Project Options. Not all options are available for all Project Types. @@@@· **Recording Speed.** Set the recording speed with this option.

@@@@@Track-at-Once. This is the default. @@@@@@Disc-at-Once. @@The laser is kept on for the entire session. · **Closed-Finalized/Open.** A closed disc means no additional data can be added. @@· **File System.** @@Joliet is best for most CD burning applications. UDF 1.02 is best for DVD burning.

UDF 2.6 is used for Blu-ray. @@UDF 1.02 with a Joliet bridge is the default. @@@@@@Macs and PCs can read both types. @@· **Test Record.** @@@@@@This takes the same amount of time as recording. @@· **Verify.** @@If it finds a discrepancy it rejects the disc. Verify is an extremely high quality standard.

@@@@@· **Set Time and Date to Mastering Time.** @@@@@@Kiosk Mode. @@@@@@Finished media will be placed in Kiosk bin. @@See Section 2D for instructions on setting up the Kiosk bin. **Bin Selection.**

@@Check the box and set the media type to one of the available options. @@@@@@Other project types will automatically select the correct type of media. When you queue multiple projects with different media types the robot will now choose from the left or right bin depending on what media type is selected in the project and set for the bin. All finished discs will be placed in the kiosk bin. Note: PTPublisher has no way to verify if the actual discs loaded into the bin are CDs, DVDs, DVD-DL or BDR.

It is up to the user to make sure the designated media is in the correct bin. 22 **Creating Discs B.4 Publisher Status** The status window is automatically displayed when a job starts. You may also access it at any time by clicking the More Status link under the picture and description of the robot connected. Publisher Status is only available if the Publisher is connected. · If no errors are present, the green check button will be displayed with a Ready indication to the left. · If errors are present a red exclamation button will be displayed with the error explained to the right. At times the entire error will not be visible. Click More Status to view the complete error. The Status page displays Drive Status, Printer/Robot Arm Status, and Project Status.

Drive Status shows the current status of the drive during a job. The recording progress is displayed on the progress bar along with the total size of the burn and the current amount burned. **Printer/Robot Status** shows the current status of the printer if it is printing or the robot if it is moving discs. The **Project Status** area of the Publisher Status window shows the current status of the job such as what disc number is printing and burning of the total number of discs to produce. From here you may also view a detailed log of the current job, view a log of previous jobs and abort currently running jobs. To abort a currently running job, click the Abort button. The publisher will finish its current robotic command and then stop the job. **Creating Discs 23 Queue Project.** To queue another project to run after the current one is finished simply setup the project as you normally would. When you get to the third step of the project setup wizard, if a project is currently running, a Queue button will appear instead of a Go button.

Click it to queue the job. B.5 **Backup Project (PC Disc Publishers Only)** To create a new backup project you must setup a data project and then schedule it. Follow these steps: 1. 2.

Choose Data Project from the project starter window. Add the files or folders that you would like to backup. Typically there will be more data to backup than will fit on any one CD, DVD etc. If that happens you will receive a warning message and the data bar at the bottom of the screen will turn red. To resolve this issue you may choose to span the data over several CDs or DVDs or change the media to a different type with more data capacity.

If you choose to check the span disc box you do not need to change media type. A Span Report button will appear which will tell you how the data will be distributed over the chosen media type. 24 **Creating Discs** Regardless of the media type selected for backup projects it is recommended that span discs be checked to accommodate future backups of the same files/folders which may be larger. **Important Note:** It is not possible to span a single large file over multiple discs. Using the media drop down list, you may also choose to change the media type to one with more capacity. The data bar will change from red to green. Note: Changing the media type only changes the media that the software expects. It is up to the user to make sure the selected media is in the correct bin. 3. Once you have selected the data click the next arrow to add a print file.

There is a print template that has been designed for backup projects. It is recommended that this template be used. Check the "Use Print Template" box. Title and description fields will appear below it. @@@@@@Click the refresh button to view your changes in the preview. @@@@@@You will be prompted to save your project. Do not move projects once you have saved them. @@Set the frequency of the backup and the time of day.



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@@ Check the box next to the backup project you would like to run. Click Run Now to run it for the first time now.

@@@@@@ Choose Backup Project from the sub menu. @@PTPublisher does not do incremental or differential backups by searching for new or changed data. B.6 Rip Audio CD (PC Disc Publishers Only) This project allows you to rip music to your hard drive in MP3 or other formats using iTunes or Windows Media Player. 1.

To rip an Audio CD to your iTunes database or Windows Media Player database choose Advanced Projects - Rip Project. Choose whether to rip to iTunes or Media Player. Load the Audio CD in the right bin of the Disc Publisher. 2. 3.

4. Click Go to start ripping CDs. Follow any onscreen prompts regarding settings that must be set before you begin. Note: The actual ripping process is completed by iTunes or Media Player. Please set all settings regarding the rip format (mp3, wav, wma, etc.), rip location, rip quality (kpbs), etc. in Media Player or iTunes. Creating Discs 27 Tips: 1. When loading discs, do not stack multiple albums from the same artist together. 2.

For best results rip audio into an empty iTunes or Media Player database. B.7 PTProtect (PC Disc Publishers Only - Requires separate purchase of USB dongle) PTProtect allows you copy-protect any DVD Video and mass produce protected discs using the PTPublisher software and a Primera Disc Publisher. You can protect an existing Master DVD by first converting it to an ISO image using PTPublisher or you can protect a DVD that is stored on your hard drive as VIDEO_TS and AUDIO_TS folders. Instructions for each of the two methods are found in the instructions with the PTProtect dongle or in the PTPublisher software help file. To protect DVDs you must first insert the PTProtect USB Dongle (100, 250, 500, 1000 or 5000 protections) into a USB port on the same computer that the Disc Publisher is connected to. Once you insert the dongle it will appear in My Computer as the next available drive letter with a Volume Label as "PTProtect." When PTPublisher is launched the PTProtect option will be enabled. The number of protections enabled will be visible on the Summary screen (Step 3) of the DVD Video Project or Image Project. 28 Creating Discs Note: You will receive 3 free protections before the dongle is connected. After the free protections are used the PTProtect option is still visible but not selectable. B.8 Projects Sets (PC Disc Publishers Only) A project set is a group of projects that you can save in specific order and run once or multiple times. You should use this feature if you often run a group of projects together. For example, you might package an audio disc and a DVD together as a set so you would always need the same number of both.

Just add both projects to a project set and start them both with a single Go command. Or if you package six discs together as a set you can create a project for each volume, add them all to a set and click Go to start them all. You can even collate by running the set multiple times. There are two ways to create a project set. A.

Add existing saved project to a new project set. 1. 2. 3. Go to Advanced Projects - Project Set You will be prompted to name your project set. The projects sets screen will appear. 4. 5. Click Add Project to browse to an existing project. Add additional projects sets in the same manner.

B. Add a currently open project to a new or existing project set. 1. 2. Setup your project just as you normally would. On the summary screen, save your project. Creating Discs 29 3. Click on the Add to Project Set drop down menu. 4. 5.

Choose New Project Set or existing project set. The project set window will now open. 6. 7. 8.

9. Add additional projects sets in the same manner. Rearrange or delete project sets using the arrow icons or the delete icon. Run the project set multiple times by using the toggle at the the bottom of the window. Click Go to start the project set.

Note: 1. Open the project to adjust the number of copies or any other setting in the project. Re-save the project when you are finished. 2. Copy projects and Rip Audio projects cannot be added to a project set. 3. Multiple drive robots may not always out put discs in the intended order. 30 Creating Discs C.

CREATING A PRINT LABEL USING SURETHING (PC) The SureThing Disc Labeler software included with your Publisher is a great tool for creating professional looking discs. You can use SureThing's Smart Designs to quickly label a disc, or easily import your own design in many popular file formats.

The Help section included with the software will provide complete instructions on all the features in this package. (Go to the Help Menu - Choose Contents) The following is a tutorial on creating a basic disc design: 1. Open the SureThing program. Choose the 120mm DiscTemplate from the window that appears.

2. Open the background panel by clicking the arrow on the background button. Add your own background to the label by choosing Select Background. 3A. Browse to the location of your background image. To avoid skewed or blurry printing make sure your image is 120mm square and of sufficient resolution. We recommend 300 dpi. 3B. Instead of your own background, you can also choose from several included SureThing backgrounds. To choose one of these images click the SureThing Background button in the Browse window that appears when you click Select Background. Also, you can easily toggle through the

backgrounds by using the toggle bar below the label.

Backgrounds are controlled by the far left toggle button. Creating Discs 31 4A. Open the text panel by clicking the arrow on the text button. Add text by selecting one of the options below. To create text that follows the curve of the disc choose Add Circular Text.

4B. You may also choose from several SureThing smart designs. These design templates automatically position your text and use certain text effects to give your label a professional look. You can easily toggle through smart designs by using the middle toggle button on the toggle bar below the label. 5. Finally, open the picture panel by clicking the arrow on the Pictures/Clipart button. Add any logos, graphics or symbols to the label. These graphics will appear on top of the background image. You can size them appropriately by dragging the corner of the selected graphic. When you have completed the design work save your label by choosing Save Project in the Actions panel.

6. D. CREATING A PRINT LABEL USING DISC COVER (MAC) The Disc Cover Disc Labeler software included with your Publisher is a great tool for creating professional looking discs on a Mac. You can use Disc Cover's backgrounds and clipart to quickly label a disc, or easily import your own design in many popular file formats. The Help section included with the software will provide complete instructions on all the features in this package. (Go to the Help Menu - Disc Cover PE Help) The following is an overview of the basic components of the software: 32 Creating Discs 1.



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Open the software by clicking the Create Label button on the Add Print File step of PTPublisher. There is no way to open Disc Cover PE outside of the PTPublisher software. 2. To add a background from Disc Cover, click the Gallery button on the top tool bar.

On the image above, the Gallery button is the highlighted center color wheel button on the left side of the top tool bar. Choose Backgrounds from the drop down box. Click the design that you would like as your background. Use the scroll bar to view all of the designs. You may also select an image or design from your hard drive as long as it is a supported file type such as TIFF, JPG, BMP or PDF.

Go to the Insert Menu - Select Image Choose From File... 3. 4.

Creating Discs 33 5. Once your image or background has been selected you can add text or other design elements using the buttons on the tool bar or the Inspector. Below is a short description of each of the important buttons. Clipart Selection Zoom Font Gallery Import Text Circular Text Color Inspector Import - Import song titles from iTunes or pictures for a collage from iPhoto. Gallery - Choose a Disc Cover backgrounds or several backgrounds to make a collage. Create your own backgrounds and add them to the Gallery. Clipart - Choose from a wide selection of categorized clipart. After selecting this button, click the dropdown that appears to see all categories. Selection - Resize or move text, images or shapes with this tool. Text - Create a standard text box.

Circular Text - Create circular text that follows the contour of the outside or inside of your disc. Zoom - Zoom out or in. Color - Change the color of the selected object with this tool. Font - Change the font of the selected text or circular text object with this tool. Inspector - Click this button to open or close the Inspector window. The Inspector window includes advanced options that allow you to change the properties of your template, change size or position of the objects, add effects, edit transparency, change text properties and align objects. See the next step for more information. 34 Creating Discs 6. Once you have several objects on screen you may choose to use the Inspector tool to edit advanced object properties. Select the objects you would like to edit and then click on one of the six buttons on the top of the inspector.

Four are shown below. See the description of each understand what options are available on each. 7. Design Element - Switch to a new template, edit the current template, create your own. · Geometry - Precisely move, resize or rotate selected objects.

· Fill and Shadow - Add shadow, change thickness or color of geometric objects. · Image - Add transparency or a gradient to images, clipart or backgrounds. · Text - Change line spacing, character spacing, fonts, size, or justifications of any selected text object. · Alignment - Align or distribute multiple text objects. Many other options such as changing the order of objects, (send to front, send to back) and exporting in other file formats are available from the Disc Cover menus.

Finally, save the design by going to the file menu - save as. Quit Disc Cover by choosing Quit from the Disc Cover PE menu. PTPublisher will ask you if you would like to use the design you just saved in your project. Choose Yes. · 8. Creating Discs 35 E. ADVANCED PRINTER SETTINGS Advanced Printer Settings can be accessed from the Add Print File Step in either PTPublisher for Mac or PC. All available settings are displayed in the Printer Settings area on this screen. Below is a description of each. Print Quality This setting affects the quality and speed of the print.

Ink consumption is only slightly increased as you increase the quality. The default setting of medium is sufficient for most images. If you are printing large areas of solid color you may find that you must increase the quality to reduce banding. 36 Creating Discs Ink Cartridge Color + Black is best for images that have large areas of black graphics or text. Although you can print these same images with just the color cartridges, often the blacks will look darker with this setting. To make sure the black cartridge is used the black areas of the source image must be 100% black. If SureThing or Disc Cover is used to create black text or graphics you can be assured that the black areas are 100% black. However, if you are using a JPG image, even areas that look black may not use the black cartridge since the JPG format compresses the image. Color Only is the default setting and is best for most images. With this setting the printer only uses the color cartridges to produce all colors including gray scale black and white images.

Monochrome Black is for images that have large black areas or black text. This will ensure that no color ink is being used. Saturation This option controls the ink saturation of the printed image. When printing onto the printer manufacturer's TuffCoat media, this option can be left at its default setting of 100%. When printing onto other brands of printable media, you may need to adjust this control in order to optimize the ink saturation for the printable surface of your specific media.

Click on the up and down arrows to change the ink saturation setting. Lower numbers reduce the overall ink saturation, while higher numbers increase it. If discs do not seem to be drying completely it may be necessary to reduce this value. Outer Margin Adjust this value to print all the way to the outer edge of a disc. This is useful if you are printing full coverage images.

The lower you set this value the farther to the outer edge of the disc you will print. Please note that with most media the printable surface does not extend all the way to the edge of the disc. Because of this you will not normally set this value to zero. You may also want to adjust the inner diameter setting. To use the preset outer diameter setting for Primera media, select the media type from the drop down box at the top of the printer settings area. Creating Discs 37 Inner Diameter This value changes the size of the non-printed center. Larger numbers cause the non-printed center to be larger and smaller numbers make the non-printed center smaller. This number is incremented by 0.1mm so a change of 10 for inner diameter changes the diameter by 1mm. Set the diameter to 230 for Primera TuffCoat media.

To use the preset outer diameter setting for Primera media select the media type from the drop down box at the top of the printer settings area. Color Mode Best for Graphics mode is best used for graphical images where accurate color reproduction is not as essential. Images printed in this mode will look more vibrant because more ink is being used to produce them. However, printing images of people may produce skin tones that have a reddish tint. Best for Photos mode is best used for photographic images where accurate color reproduction is very essential.



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Images printed in this mode will look lighter than those printed in Photo mode. Skin tones especially will look more natural in this mode. NOTE: Exact color matching of the printed discs to the screen may never be possible since there are factors that affect this out of the drivers control. The surface of the disc reacts with the ink in the cartridge to produce the color. For this reason, when printing the same image to different types of discs with different surfaces the printed output can look entirely different.

Color Table Adjust the Color Table setting to adjust the color matching for any image. There are six different color tables to choose from. Since color matching is greatly dependent on the media being printed on, there is no reliable way to differentiate between these tables. Experiment with all the tables and choose the one that works best for you. 38 Creating Discs Printer Utilities and Cost Estimator Printer utilities and the cost estimator will be available if you click the info icon .

From here you can view ink levels, cost per disc, change cartridges, clean the print head/cartridges or run the calibration utility. More information on each is below. Cost Estimator After printing one disc of any design the Cost Estimator can be used to estimate the cost per discs. Ink cost is automatically and continuously calculated based on the black and color cartridge costs entered. Only the last printed label cost is displayed.

For reference, the print file and date of last print is displayed at the top of the window. Creating Discs 39 You will need to Set the Cartridge Cost first before receiving a cost per disc. Adjust the cartridge costs according to the actual price paid. The estimate does not take currency into account so you can assume that whatever value you entered is displayed in your currency. · Save a screen capture of the cost by clicking the disc icon. · Print a screen capture of the cost by clicking the printer icon. Important Note: The cost per disc represents the average cost per disc over an entire run of labels. This means that the per label cost will decrease and become more accurate as the number of labels printed increases. This is because the ink that is used for initial job starting cartridge maintenance is divided into a larger number of labels. Calibrate the Disc Publisher Several advanced calibrations can be performed with this utility.

Under normal circumstances you would have no reason to perform any of the calibrations since all of them are factory calibrated. However, if the Disc Publisher is having trouble picking from any location, the calibrations available here can be used to correct this problem. Cartridge Alignment The Cartridge Alignment prints a test print and then automatically scans the print to configure your printer for bidirectional printing and to align the color and black cartridges for Color+Black printing. It is important to perform this calibration every time you change a cartridge. If you forget to perform this calibration you will be prompted to do so before your first print from the new cartridge. Center Print Image · NOTE: Your printer comes from the factory pre-calibrated to print the image to the center of the CD. You can use this adjustment if you need to fine-tune this location. If you ever wish to verify your factory-calibrated Vertical and Horizontal calibration settings, you can run a simple calibration procedure to assure that your images will be centered when printed on a CD.

To do this, refer to the following steps: 40 Creating Discs 1. 2.

3. Click Center Print Image in the Printer Settings Window. Click Start Auto Calibration to begin printing the calibration test print. When the print is complete, rotate disc 180° and put the disc back in the input bin and repeat step 2 using the same disc. When the second run of the print is complete, you should have a test print that looks similar to the following: BACK -5 -4 -3 -2 -1 0 1 2 3 4 5 5 4 3 2 1 0 -1 -2 -3 -4 -5 4.

BACK 5. Along the Vertical axis of the printed disc, find the number whose lines touch. For example, in the above illustration, Enter the number 2 into the Vertical box of the Calibration window and 0 for the Horizontal axis. Select the OK button. Your images should now be centered when printed on a disc.

6. Note: If you think you know what values to enter for the horizontal and vertical fields you may skip the Auto Calibration and enter the values directly by clicking Manually Set Values. -5 -4 -3 -2 -1 0 1 2 3 4 5 Find and enter the number whose lines touch (must be the SAME number) Horizontal Calibration Vertical Calibration After printing this image once, rotate this CD so the ARROWS point to the BACK of the printer and print again. Find and enter the number whose lines touch (must be the SAME number) 5 4 3 2 1 0 -1 -2 -3 4 -5 NOTE: Creating Discs 41 Change Cartridge(s) Select the Change Cartridge(s) button to install a new ink cartridge or to switch back and forth between previously used cartridges. Clean Print Head If the printer has been idle for a long period of time you may start to experience some drying of ink in the tiny nozzles that make up the print head. Clicking the Clean Print Head button will cause the Publisher to pick a disc and place in into the printer tray. The Publisher will then print a simple pattern that will flush ink through the nozzles. Multiple Clean Print Head prints may be necessary! If the nozzles are not fully clear after a few cleaning prints, it may be necessary to remove the cartridge and manually clean the print head. See Section 3D. F.

LABEL DESIGN REQUIREMENTS FOR OTHER GRAPHICS PROGRAMS Other graphics programs can be used to design labels and print directly to the Publisher. When printing and burning through the PTPublisher software your Publisher will support the following additional standard label image file formats: BMP, TIF, JPG, GIF, PNG and PRN. These formats can be exported from most original graphics formats such as Adobe Photoshop or Illustrator. When creating images in other graphics programs we recommend creating a 4.72" x 4.72" square image that has a 300 dpi resolution. 42 Creating Discs Section 3: Maintenance and Troubleshooting The Publisher is designed to operate for extended periods of time with very little attention. In fact, no regular maintenance is recommended other than cleaning the outside case. NOTE: Do NOT attempt to oil or grease the Publisher's Robotic Arm shaft or other components. You will likely cause more harm than good! Any moving parts are designed to operate for the life of the machine with no additional lubrication required.

A. INTERPRETING THE PUBLISHER'S INDICATORS LIGHTS The Power and Busy LED indicator lights located on the top of the Publisher can tell you a lot about what is happening inside the Publisher. To accurately interpret what it means when these lights are on, off, or flashing, please refer to the following: Ink Cartridge LED off on solid Power LED on solid on solid Publisher Is ready to receive job Has received a job and is waiting for the Robotic Disc Transporter to load a disc Waiting for a cartridge to be installed and the lid to be closed (See Section 2-A) The Publisher is initializing.



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