



# 20/20 COLOR MD™



11612 Linnet Court • Penn Valley, CA 95946

530-432-2365

<http://www.phototune.com>

<http://www.20/20 Color MD.com>

## User Guide



# Software License Agreement

Please read this agreement carefully before using the software.

If you do not agree with the terms and conditions of this Agreement, return the software package to PhotoTune, or to the location where you obtained it. By using this software, you agree to be bound by the terms and conditions of this license.

The enclosed computer program ("Software") is owned by PhotoTune Software and is licensed, not sold, to you by PhotoTune Software for specific use under the terms of this license only. The term "Software" shall also include any upgrades, modified versions, updates, additions and copies of the Software licensed to you by PhotoTune Software. PhotoTune Software grants to you a nonexclusive license to use the Software and documentation, provided you agree to the following:

1. LICENSE. This license allows you to: (a) Install and use one copy of the software on a single computer which is not accessible by multiple computers. That same user may also make a copy of the Software to use on a portable or home computer which is primarily used by said user; (b) make one copy of the Software in machine readable form solely for backup purposes; (c) transfer the software from one computer to another provided the software is used on only one computer at a time; (d) permanently transfer (not rent or lease) the Software to another party by providing to such party all copies of the licensed Software along with a copy of this License and the accompanying written materials provided the party agrees to be bound by the terms and conditions of this License, and you may not retain any of the copies of the product after the transfer.

2. RESTRICTIONS. (a) The Software contains trade secrets and may not be modified, translated, reverse engineered, decompiled, disassembled, nor any attempt made to discover the source code of the Software, or create derivative work based on the Software; (b) you may not sublicense, rent or lease any portion of the Software package; (c) notwithstanding any other terms in this License, if the Software is licensed as an upgrade or update, you may only use the Software to replace previously licensed versions of the same software. The upgrade or update does not constitute the granting of a second license to the Software, and you may not transfer the software which is being replaced to a third party.

3. TERMINATION. This License is effective until terminated. This License will terminate immediately without notice from PhotoTune Software or judicial resolution if you fail to comply with any provision of this License. Upon such termination you must destroy the Software, all accompanying written materials, and all copies thereof.

4. EXPORT LAW ASSURANCES. You agree that the Software will not be shipped, transferred or reexported, directly or indirectly, into any country prohibited by the United States Export Administration Act and the regulations thereunder or will be used for any purpose prohibited by the Act.

5. LIMITED WARRANTY. PhotoTune Software warrants that the Software will perform substantially in accordance with the documentation, and be free from defects in materials and workmanship under normal use for a period of ninety (90) days from your date of purchase. To make a warranty claim, you must return the entire software package with the original sales receipt to the location where you obtained it within the ninety (90) days. The entire and exclusive liability and remedy shall be limited to the replacement of the Software, or the refund of the purchase price you paid for the Software package.

THIS LIMITED WARRANTY IS THE ONLY WARRANTY PROVIDED BY PHOTOTUNE SOFTWARE. PHOTOTUNE SOFTWARE AND ITS LICENSOR DISCLAIM ALL OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES OR LIMITATIONS TO A SPECIFIC TIME PERIOD FOR THE WARRANTY, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

6. LIMITATIONS. In no event will PhotoTune Software any licensor, employee or affiliate of any of the foregoing be liable to you for any consequential, incidental, indirect, or special damages whatsoever (including, without limitations, damages for loss of business profits, business interruption, loss of business data and the like), whether foreseeable or unforeseeable, arising out of the use of the Software, or your inability to use the Software.

SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

7. GOVERNMENT END USERS. If the software is supplied to the United States government the Software is classified as "RESTRICTED COMPUTER SOFTWARE" as defined in clause 52.227-19 of the FAR. The United States government's rights to the Software are as provided in clause 52.227-19 of the FAR.

8. GENERAL. This is the entire Agreement between us and supersedes any other communication, advertisements, or understanding with respect to the Software and documentation.

---

© 2004 PhotoTune Software. All Rights Reserved.

This manual, and the associated software, is furnished under license and may only be used or copied according to the terms of said license. This User Guide, readme file, release notes, and other related material is for your information only, and is subject to change without notice. PhotoTune Software assumes no responsibility or liability for any errors or inaccuracies that may appear in this book.

No part of this publication may be reproduced, or transmitted in any form, or by any means, without the prior written permission of PhotoTune Software.

20/20 Color MD and PhotoTune Software are trademarks licensed to PhotoTune Software. Adobe and Photoshop, are registered trademarks of Adobe Systems, Inc. Apple, and Macintosh are registered trademarks of Apple Computer, Inc. Microsoft and Windows are registered trademarks of Microsoft Corporation. All other trademarks not specifically named are the property of their respective owners.

20/20 Color MD is protected by a U.S. Patent Pending.

Written and designed by PhotoTune Software.

## Windows Installation

1.) Double-click on Installer.exe to run the setup program. If the installer can't find Photoshop, use the Choose button to locate Photoshop's Plug-ins folder. It is normally located in c:\Program Files\Adobe\Photoshop\Plug-Ins.

2.) Next time you use Photoshop, 20/20 Color MD will appear as a new menu item under Photoshop's Filter menu. Look for PhotoTune 20/20 Color MD.



### SYSTEM REQUIREMENTS

20/20 Color MD is a Photoshop plug-in, compatible with:

Photoshop 7 and CS, Photoshop Elements 2, Jasc PaintShop Pro, and Corel PhotoPaint.

Windows 98 to XP.

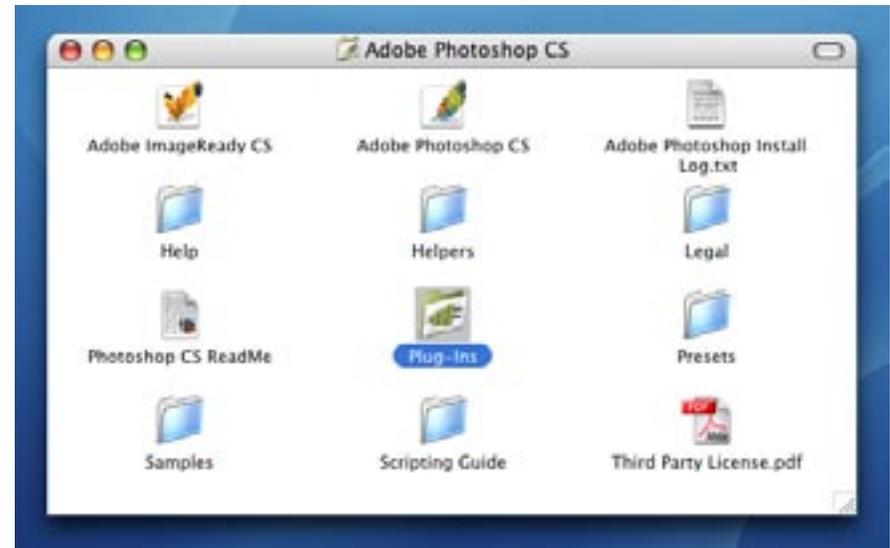
Minimum screen resolution of 800x600

24 bit RGB images. File types include Tiff, JPEG, Photoshop, BMP, and PICT.

## Macintosh OSX Installation

1.) Move or copy 20/20 Color MD into Photoshop's Plug-ins folder located in the Applications Folder on your hard drive.

2.) Next time you use Photoshop, 20/20 Color MD will appear as a new menu item under Photoshop's Filter menu. Look for PhotoTune 20/20 Color MD.



### SYSTEM REQUIREMENTS

20/20 Color MD is a Photoshop plug-in, compatible with:

Photoshop 7 and CS, or Photoshop Elements 2.

Mac OSX 10.2+.

Minimum screen resolution of 800x600

24 bit RGB images. File types include Tiff, JPEG, Photoshop, BMP, and PICT.

### SERIAL NUMBER

When you start 20/20 Color MD, a dialog box will appear giving you an opportunity to enter your serial number by clicking the Register button. Until a serial number is entered, 20/20 Color MD will be restricted to demo mode, which provides 20 sessions before timing out.



## Welcome To 20/20 Color MD.

Thank you for purchasing 20/20 Color MD, a powerful and sophisticated Photoshop® plug-in for color correction. This user guide introduces you to 20/20 Color MD, and acquaints you with its many features and capabilities.

20/20 Color MD is designed for anyone who works with color images. Photographers, photolabs, graphic designers, publishers, advertising agencies, illustrators, printers, service bureaus, webmasters, and educators can all benefit from 20/20 Color MD's unique and powerful features.

### WHERE IS OUR COMPETITION?

Why didn't the color scientists at Adobe, Kodak, Apple, or Microsoft come up with a similar solution? They looked at the problem from the wrong perspective, pursuing similar approaches that examine pixel data and try to auto correct perceived problems. This will never work because you have been taken out of the equation. Auto functions don't know what the image is supposed to look like, or what you want it to look like. We invented this process to empower you. Then we tested it, refined it, perfected it, and patented it.

## Because it's more fun taking photos than fixing photos.

Here's the problem. Since the advent of digital imaging, you spend more time in front of a computer fixing photos, and less time behind a camera taking photos.

### WHY IS YOUR CAMERA SMARTER THAN PHOTOSHOP?

Your camera can instantly and automatically figure out the proper shutter speed, aperture setting, and focus. So, why can't Photoshop figure out how to color correct your images? Photoshop is user dependent, leaving the task of color correction totally up to you. There is no guidance, no shortcut, and no help. So, you tweak, and experiment with different adjustments until you see something you like. With 16.7 million different color possibilities, finding the right solution is not always easy.

### EYE EXAM

20/20 Color MD takes an entirely different approach to fixing images. 20/20 Color MD is a Photoshop Plug-in that works like an eye exam to figure out precisely what is wrong with a photo and how to fix it. During each step of the wizard process, you are presented with two preview images that have been altered in different ways. All you do is pick the best image for each step. 20/20 Color MD instantly and scientifically analyzes your feedback to determine exactly what you want. In about 15 seconds, 20/20 Color MD provides you with a corrected image, which you can fine-tune in 1% increments.

### 6,144 DIFFERENT RESULTS

20/20 Color MD looks easy, because it is easy. But, don't be fooled by that friendly exterior. Under the hood, 20/20 is an extremely complex, sophisticated, and ingenious software tool. Ponder this. 20/20 Color MD contains 6,144 different color correction solutions, and the Color Wizard finds the best, single solution in less than 30 seconds. Not only that, it evaluates your feedback, so every image will look the way you want it to look.

### IT'S ABOUT TIME

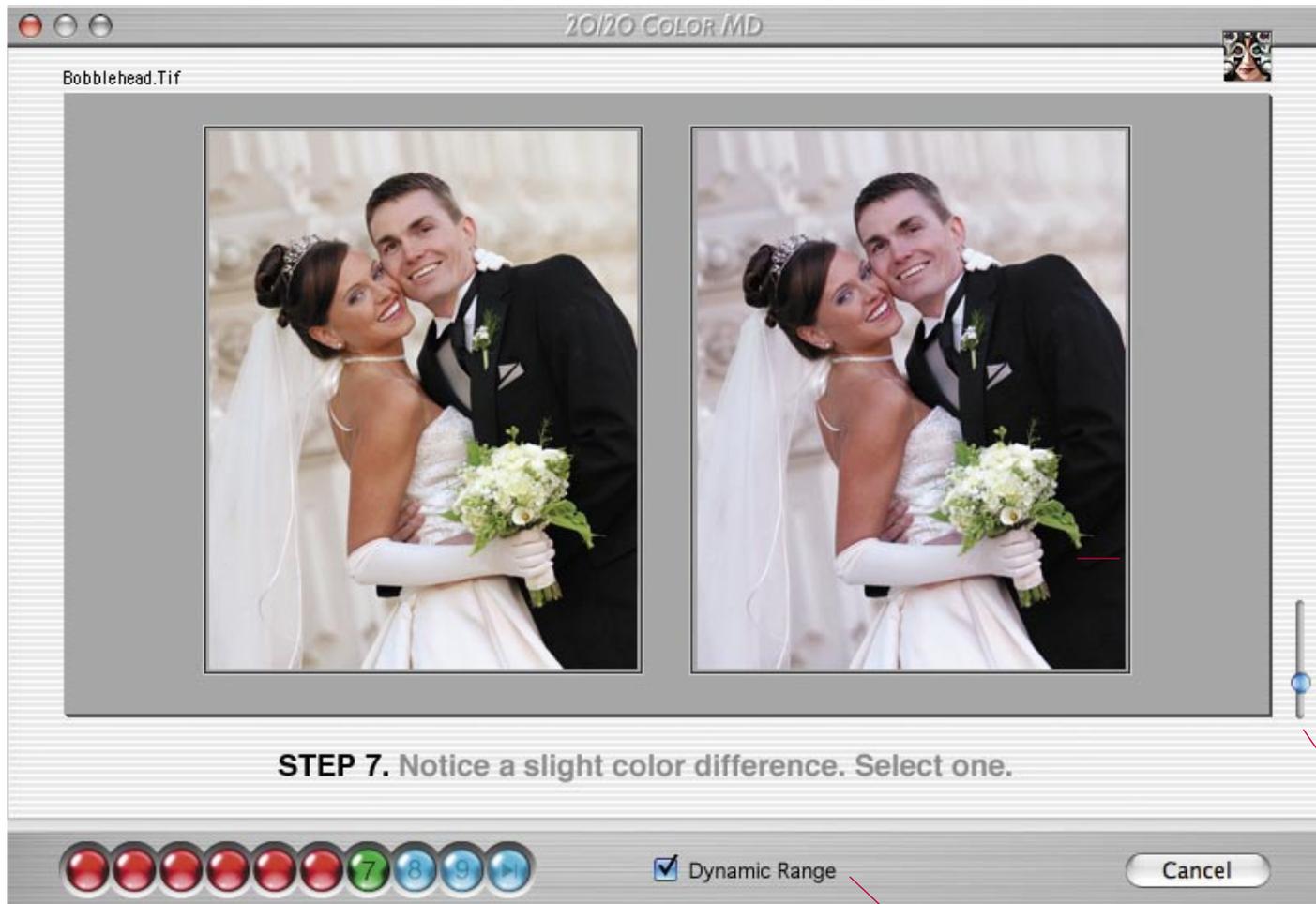
If you spend an average of 10 minutes fixing an image with Photoshop's Curves, Levels, Hue & Saturation, or Variations, it'll take you 16 hours to color correct 100 images. With 20/20 Color MD, you'll be done in less than one hour.

### IT'S ALSO ABOUT QUALITY

We understand that quality is more important than saving time. That's why you'll appreciate all the extra effort that went into our advanced color technology. We invite you to test and compare our results against any application in the industry.

### STAY FOCUSED ON PHOTOGRAPHY

At some point, photography became your passion. Now, with 20/20 Color MD, you'll have more time to pursue that passion. Welcome back to photography.



## Wizard Panel

There are two different panels in 20/20 Color MD. The Color Wizard, shown here, automatically appears when you open an image.

The Wizard works like an eye exam by displaying a series of nine side-by-side preview images with different effects applied to each preview. All you do is choose the better preview of each pair by clicking on the image. Continue choosing the better preview until all 9 steps are complete.

- Your original image will not be shown during the Wizard process.
- You can not skip any steps.
- A preview must be selected on each step.
- Each response gives 20/20 Color MD a clue to what you want. The Wizard has 6,144 different possibilities, and after nine steps, only one candidate remains.

### ZOOM SLIDER

When you open an image in 20/20 Color MD, the image is reduced to fit in the image area. Moving the slider handle up increases the image size, while down reduces the size.



### HAND TOOL

If the image is cropped, you may reposition the image by using the hand tool.

**Macintosh** - Option Click and drag.  
**Windows** - Control Click and drag.

### PROGRESS BAR

The progress bar shows the status of the Color Wizard, and it can be used for limited navigation.

**Red Icons** represent steps that have been completed.

**Green Icon** indicates the active current step.

**Blue Icons** are for upcoming steps.

**Back Button.** You may move back one step by clicking on the red button to the left of the active green icon.

**Start Over.** To restart the Wizard, click on the first button on the progress bar.

**End Button.** To end the Wizard process and switch to the Fine-Tune panel, click the far right button. No changes will be made to your image.

### DYNAMIC RANGE

Images with no true highlight or shadow are not good candidates for dynamic range. If an image appears too contrasty, like the example on the right, turn dynamic range off during the Wizard Process (uncheck).





## 9-Step Wizard Process

You are the only one that can determine if the color is correct. 20/20 Color MD works like an eye exam to determine what image correction is right for you. 20/20 Color MD is a guided system that evaluates your response to a series of nine image preview comparisons. During each step, you will be presented with two preview images that have both been modified using different criteria. All you do is pick the best of the two preview images from each step by clicking on the image of your choice. After your selection the next step is automatically displayed and ready for your response.

- All steps must be completed.
- Your original image will not be shown during the Wizard process.
- Each response gives us a clue to help solve the color correction puzzle.
- The Wizard has 6,144 different results. After nine steps, only one possibility remains.

When the step-by-step sequence is done, 20/20 Color MD figures out what you want and how to achieve the proper result. Then, the corrected image is displayed next to the original image, where you can fine-tune the results.

### HOW DOES IT WORK?

The difficulty with color correction is that there are 16.7 million color possibilities, and only one solution that will correct the image, based on your personal preference. A combination of six colors (R, G, B, C, M, Y) can be used to color balance an image and remove an unwanted color cast. 20/20 Color MD never uses more than one or two colors to correct an image. The job of the Color Wizard is to evaluate your feedback to eliminate color parameters from consideration. Next, the Wizard orders the two remaining colors by importance, and then determines an appropriate amount.

## ACHIEVING THE BEST RESULTS

Like an eye exam, your response to each step determines the direction and amount of each subsequent step. The first three steps determine a brightness change. The next six steps are used to remove a color cast. More steps are required in the color section due to the complexity of color balance. In each section, the previews become more refined as you near the end. Since the step-by-step process follows the same sequence each time, the more you use 20/20 Color MD, the more proficient you'll become.

Here's our best advice for making appropriate choices for each step:

1. **Relax and have fun. 20/20 will do most of the work for you.**
2. **Choose quickly, within a few seconds.**
3. **Don't over analyze. Go with your first impression.**
4. **Choose vibrant, pleasing colors. A flat, dull appearance is usually a bad sign.**
5. **Consider the overall appearance first, then check important areas, like a face, or areas that should be a neutral gray.**

During the step-by-step Wizard process, you might see a few drastic previews. This is normal, so don't become alarmed or concerned. The process always moves from severe to precise. It's our way of determining if the image requires a small change, a major adjustment, or something in between. With an eye exam, the first few steps are out of focus, but by the end of the process your vision will be crystal clear. 20/20 Color MD uses a similar approach.

As an example, if one image looks too warm, and the other too cool, just choose the most appealing. Each step is just a single step in a sequence that will eventually lead to a final result. In most cases, 20/20 Color MD will produce a corrected image that is very close to ideal. But, remember, all transformations can be edited later in as little as 1%. By fine-tuning the results obtained through the Wizard, you will be assured of working with a set of transformations that are non-opposing, and nondestructive. 20/20 Color MD is the most direct and efficient means of color correction ever devised.

After correcting a few images, you'll gain a profound appreciation for 20/20 Color MD and the results that you are able to obtain. You'll wonder how you ever lived without it. Never again will you have to spend more than a few minutes color correcting an image.



### PROGRESS BAR

The progress bar is used to show the status of the Color Wizard. It can also be used for limited navigation.

- Red icons represent steps that have been completed.
- A green icon indicates the active current step.
- Light blue icons are for upcoming steps.

You may NOT skip steps during the Color Wizard process. A preview image must be chosen (clicked) during each step, and all steps must be completed.



### END BUTTON

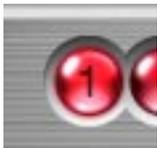
You may end the Wizard process by clicking on the End button, which is located on the far right of the progress bar.

When this button is clicked, 20/20 Color MD switches to the Fine-tune panel, and displays all the tools and sliders with 0 (zero) amounts.



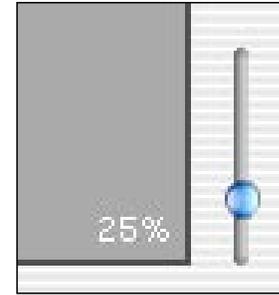
### BACK BUTTON

At any time during the Wizard process, you may move back one step by clicking on the previous step button (the red button to the left of the green button). A mouse-over effect will display the step number associated with that red icon. Click the button to move back one step. You may only move back one step, and can not move back beyond a single step.



### START OVER

During the Wizard process, you can restart 20/20 Color MD by clicking on the first step button located at the far left of the progress bar.



### ZOOM SLIDER

To the right of the image area, you'll find a Zoom slider, which can be used to increase or decrease the size of the preview images. When the slider is activated, the zoom percentage is displayed in the corner of the image area.

Moving the slider handle up increases the image size, while down reduces the size.

You can NOT freely adjust the image size. The slider jumps to the next available percentage.

When you open an image in 20/20 Color MD, the image is always reduced to fit in the available image area.



### HAND TOOL

Most images appear full-frame in 20/20 Color MD, unless the image has been enlarged with the zoom slider or if the image is excessively tall or wide, as with panoramic images. In these cases, the image display is cropped, and only the center portion of the image is in view. You may reposition the image by using the hand tool, which is accessed with a keyboard shortcut.

**Macintosh** - Option Click and drag.

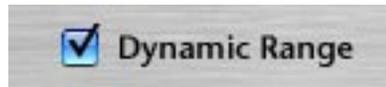
**Windows** - Control Click and drag.

### DYNAMIC RANGE CHECKBOX

Many images have a flat, dull appearance because of a compressed dynamic range.

This feature automatically corrects the problem. After the Color Wizard process, you can fine-tune Dynamic Range by adjusting the clipping amount of highlights and shadows independently.

If the image contrast is too severe, uncheck the dynamic range option.



Dynamic Range OFF



Dynamic Range ON

### NOTE:

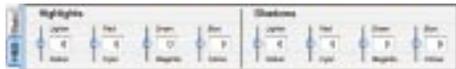
*If an image appears too contrasty during the Wizard process, turn dynamic range off (unchecked).*

## Fine-Tune Panel

The Fine-Tune Panel appears after the Wizard process is complete. It displays the Original image along side the Current corrected image, and provides a complete set of sliders to help you fine-tune and perfect the results.

### BASIC SLIDERS

Basic sliders contain adjustment controls for color, brightness, contrast, and saturation. Color and brightness are set for the amount determined by the Wizard. Only two colors sliders are provided because adjusting more than two colors is counterproductive.



### HIGHLIGHT & SHADOW SLIDERS

Tab buttons at the far left end of the slider box let you switch between Basic sliders and Highlight and Shadow sliders (H&S).

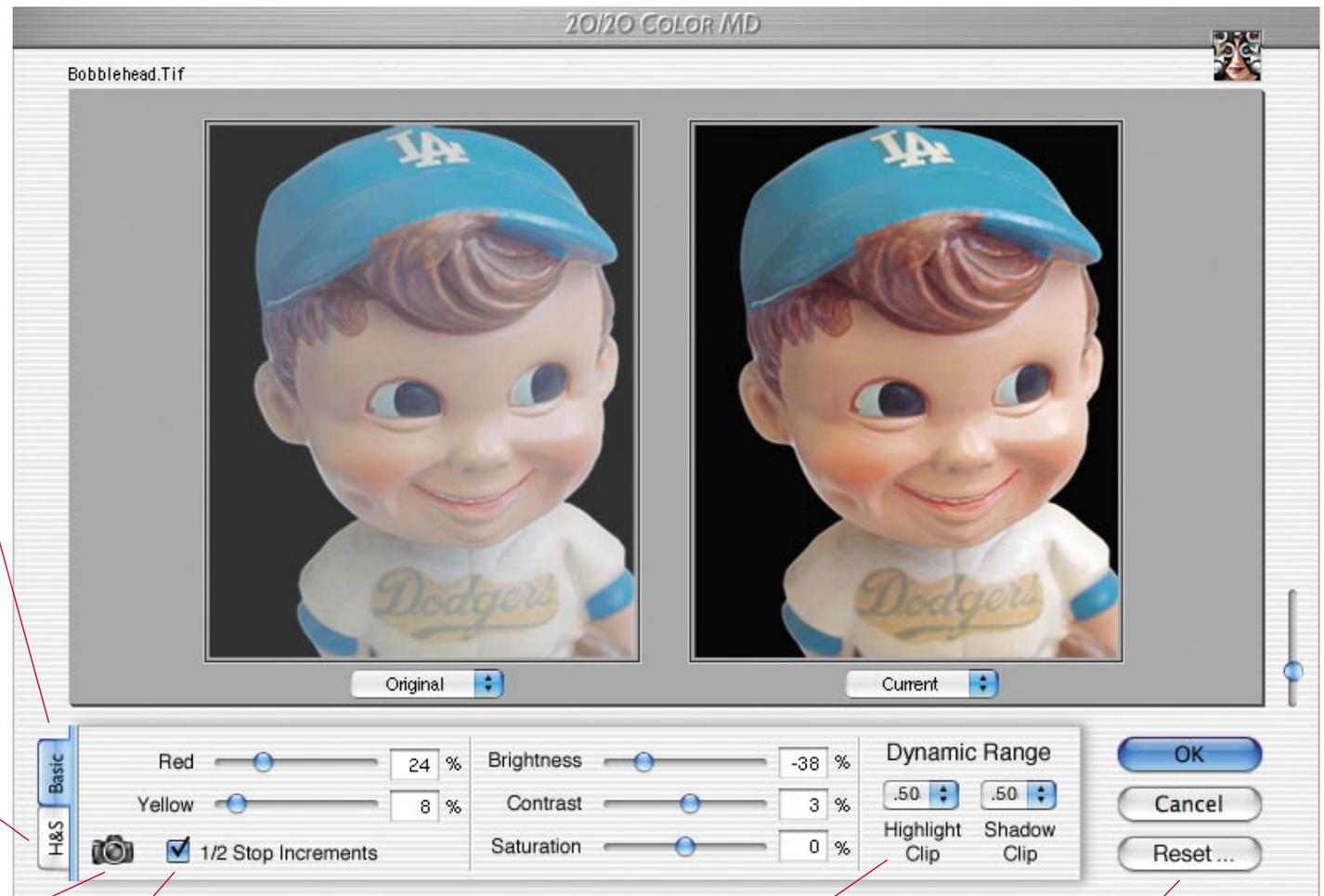
20/20 Color MD's Highlight and Shadow adjustments are far superior to similar features found in Photoshop, allowing you to achieve professional-grade results quickly and easily.



### SNAPSHOT

The Snapshot command lets you make a temporary copy of the Current preview, along with a record of your corrections. That way, you can compare different results, and experiment with different alterations without losing your prior changes.

Pop-up menus under the preview images control Snapshot functions.



### 1/2 STOP INCREMENTS

The Wizard's last step displays two previews that differ by about 10%, depending on the image key. But, the proper amount might actually be 5% more or 5% less. 1/2 Stop Increments forces the slider jump to those in between amounts.

Sliders will move in 1% increments by unchecking the 1/2 Stop checkbox.

### DYNAMIC RANGE

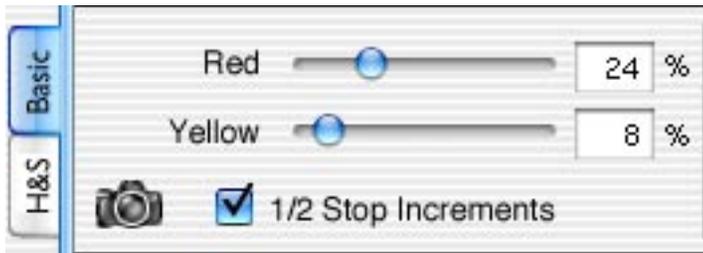
Many digital images have a flat appearance due to a compressed dynamic range. This happens when pixel values don't extend to the maximum range from 0-255. Dynamic Range converts the lightest pixels to white, the darkest pixels to black, and remaps all the pixels in between.

Highlight and Shadow clipping options are: Off, .02%, .10%, .50%.

### RESET BUTTON

Clicking the Reset button opens a dialog box with six different options:

1. Restart 20/20 Color MD.
2. Reset Wizard amounts only.
3. Reset all amounts.
4. Use 3 complementary color sliders.
5. Use current Contrast and Dynamic Range as defaults.
6. Reset factory defaults.



## FINE-TUNE

The Fine-Tune panel contains a complete set of sliders and tools for adjusting and fine-tuning your image.

Color sliders are contained in the first group of sliders. The second group has Brightness, Contrast, and Saturation. Dynamic Range adjustment is located to the far right of the Basic sliders. Tab buttons at the far left end of the slider box lets you switch between Basic sliders and Highlight and Shadow sliders (H&S).

### FIRST COLOR SLIDER

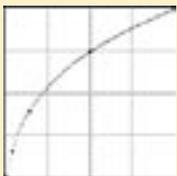
The first color slider is set for the color and amount which 20/20 Color MD determined was necessary to remove the color cast. 20/20 Color MD is accurate within 4-6%, so when fine-tuning, you can usually stay within this range. The Color Wizard has a maximum adjustment of 48%, but this can be increased up to 100%, if needed.

If you experimented with different values, and want to return to 20/20's default amount, just click the slider title, and that amount will be set, or use the Reset button, and choose the option you want.

### SECOND COLOR SLIDER

A second slider displays the second color parameter (i.e. Yellow), which was determined during the Wizard. The default amount is set to 0%, because a second color is rarely required. If it is needed, the value will usually be less than half the amount used for the first color.

We could have provided an amount for the second color, but that would have added several steps to the Color Wizard. Instead, we opted for a faster process.



Color adjustments use an exclusive curve adjustment, as shown here. This method is designed to prevent data loss.

As you can see, the largest adjustment occurs in midtone areas that contain the highest levels of saturation, with a less pronounced effect in the shadow and highlight areas.

1/2 Stop Increments

## 1/2 STOP INCREMENTS

On step nine of the Color Wizard, the final two previews differ by about 10%, depending on the image key. So, as an example, if the final two choices were +10% Red and +20% Red, the ideal amount might be halfway in between, or +15%. Using the 10% differential example, the 1/2 Stop Increment would make the slider jump in 5% increments only.

The default setting is ON. The sliders revert to 1% increments by unchecking the 1/2 Stop Increment option.

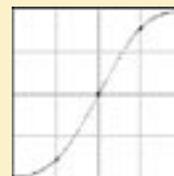


## BRIGHTNESS

The Brightness slider is set for the parameter (+Brightness or -Brightness) and the amount determined by the Wizard. Again, the amount may need to be adjusted up or down slightly. With brightness, 20/20 Color MD has a margin of error 5-8%, so you can normally stay within this range. The Wizard provides a maximum brightness change of 68%, but this can be increased to a maximum of 100%, so severely under or over exposed images can be fixed. The available range is -100% to +100%, in 1% increments.

## CONTRAST

The contrast slider uses a custom S-curve that increases highlights, and decreases shadows while preventing data loss associated with Photoshop's Brightness & Contrast adjustments. An S-curve is the preferred method of professional photographers and digital imaging experts. The available range is -50% to +50%, in 1% increments.



20/20's Contrast curve uses a custom S-curve adjustment, with highlights moving in the opposite direction of shadows. This method is designed to prevent data loss. On most images, you'll find that a 3-5% increase will provide the necessary "snap" to improve contrast.

## IMPROVED SATURATION ALGORITHM

Saturation is used to adjust the color intensity of an image. Most of the time, the Color Wizard will correct saturation by achieving proper color balance. If you need to fine-tune saturation, the slider has a range of -100% to +100%, in 1% increments.

Our exclusive saturation algorithm evaluates every pixel's saturation value before making an adjustment. Plus, saturation is adjusted without converting to a color space like HSB, which can cause data loss.

Check the samples below. It clearly shows that 20/20 Color MD does a better job than Photoshop at adjusting saturation. Notice how intelligently 20/20 Color MD handles neutral areas, like grays and blacks. Each pixel is adjusted independently, instead of globally to avoid over-processing.



Original image

20/20 Color MD Saturation

Photoshop Saturation

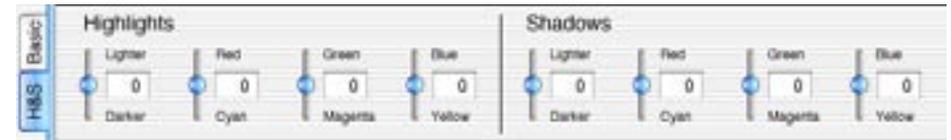
## DYNAMIC RANGE

Many digital images have a flat appearance due to a compressed dynamic range. This happens when pixel values don't extend to the maximum range from 0-255. Dynamic Range converts the lightest pixel to white, the darkest pixels to black, and remaps all the pixels in between. A percentage of pixels on each end of the spectrum are clipped to insure a proper result. Clipped pixels are converted to black or white. The clipping amount is adjustable by selecting one of the four preset clipping amounts in the Highlight Clip and Shadow Clip pop-up menus. You should use the smallest amount possible to avoid excessive data loss, and an overly contrasty appearance.

Our Dynamic Range's default clipping percentage of .02, is twenty-five times less than Photoshop's default setting. And, our Dynamic Range does not alter the color balance.

Pop-up choices are:

Off .02 .10 .50



## HIGHLIGHT AND SHADOW ADJUSTMENTS

Most color and brightness problems can be fixed using a global correction, which applies changes overall, in highlights, midtones, and shadows. But, sometimes an image requires special attention in the shadow or highlight areas. A good example would be to darken and add blue to the sky. Or, remove a color to make the shadows more neutral.

20/20 Color MD's Highlight and Shadow (H&S) adjustments isolate the tonal regions very precisely to insure that transitional areas have a smooth and flawless gradation. We spent months fine-tuning and testing our results to make your job is easy.

H&S sliders are accessed with the tab button located on the left end of the slider box.

## RESET BUTTON

The Reset button gives you six options:



### 1. Restart 20/20.

This option restarts 20/20 Color MD. Step 1 is displayed, and the entire process starts over from the beginning, just like starting a new session.

### 2. Reset Wizard amounts only.

20/20's Color Wizard produces a brightness setting, a color setting, and a Dynamic Range setting. This option resets those items to the amounts that were established during the Wizard process. Any other alterations you've made will be retained.

### 3. Reset all amounts.

This reset option reverts all items to the amounts that were established during the Wizard process. So, any alterations you've made will be deleted.

### 4. Use 3 complementary color sliders.

This option displays three color sliders instead of 20/20 Color MD's default of two. The previous two slider amounts are retained.

### 5. Use current Contrast and Dynamic Range as defaults.

This reset option is used to change 20/20's default setting for Contrast (0%), or Dynamic Range (.025 Highlight, and .025 Shadow Clipping). The radio button is grayed out and unavailable if no changes have been made to these items.

### 6. Reset factory defaults.

If you've changed 20/20's defaults, this will reset them to their original settings.



## SNAPSHOT

The Snapshot command lets you make a temporary copy (or snapshot) of any state of the image. A snapshot lets you work from that version forward, while retaining the information used to create the Snapshot. In this way, you can experiment, or compare different effects.

For example, you can take a snapshot, and then tweak amounts to compare different results. Then, take another Snapshot any time you have made an improvement, and continue experimenting. With snapshots, you can recover your work easily. If you're not satisfied with your changes, you can select the snapshot to undo all the steps which were made after the Snapshot. Use Revert To Snapshot to reload the Snapshot adjustments.

The "Original" and "Current" pop-up menus, located under the previews, are used to control the Snapshot process.

A camera icon, located on the Basic Slider tab allows you to take a Snapshot. You can also use the "Take Snapshot" option located in the Current pop-up menu.

By clicking the camera icon, the Current, right hand image preview is recorded as a Snapshot, along with its adjustments. The Snapshot preview is displayed on the left, where the Original preview was located. At this point, the Snapshot and Current are duplicates. The Current image can be adjusted as normal. Each new Snapshot is handled in this way.

There is always a Snapshot. A Snapshot survives a reset, or OK (Apply).

A Snapshot is automatically saved when the image is processed (OK), so when you reopen 20/20 Color MD to color correct a new image, the Snapshot from the previous session is available.

The pop-up menus contain the following items:

### LEFT MENU

Original  
Snapshot

### RIGHT MENU

Current

---

Take Snapshot  
Revert To Snapshot

---

Save History...  
Load History...

## REVERT TO SNAPSHOT

There is only one Snapshot and one Current preview. If you want to switch from the Current to the Snapshot, use the pop-up menu item "Revert To Snapshot".

When Revert To Snapshot is selected, the Snapshot is displayed in the right hand window, and overwrites any edits that have been made to the Current preview since the Snapshot was created. The Snapshot becomes the Current preview. The sliders are updated with the changes that were used to create the Snapshot. The Current preview can be edited as normal.

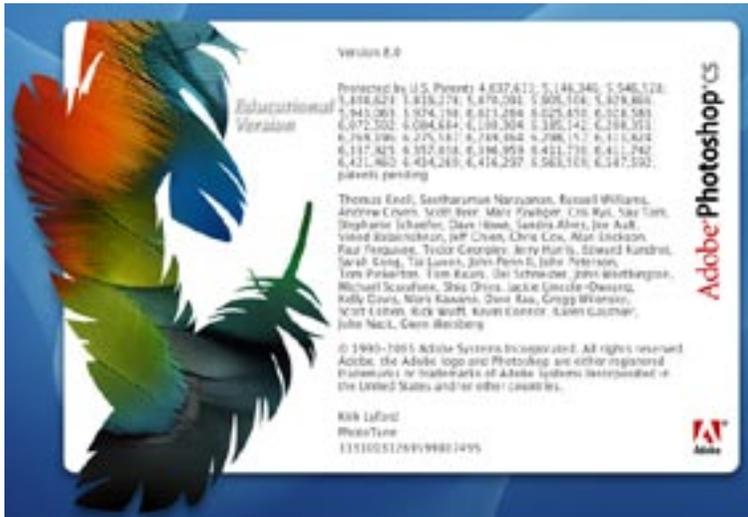
## SAVE HISTORY AND LOAD HISTORY

Only one Snapshot is remembered. An unlimited number of Snapshots can be made, but each new Snapshot overwrites the previous Snapshot. But, you can save an unlimited number of Snapshots to disk. To save to disk, choose the Save History option in the Current pop-up menu, and specify a name and location for the file. Use the Load History option to open and apply a previously saved setting. You can then compare the Saved History with a Snapshot, or edit the Saved History using all of the tools on the Fine-Tune Panel.

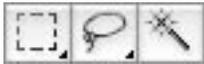
## TYPICAL WORKFLOW

Like everything in 20/20 Color MD, Snapshot is designed to speed up the correction process. Snapshot is a safety net that lets you continue experiment with different combinations. Take a Snapshot whenever you want to preserve a set of correction parameters, so you can continue experimenting with impunity. Here's a typical workflow using Snapshot:

1. After the Wizard process, take a Snapshot.
2. Use the 1/2 Stop increments to make quick improvements.
3. Take another Snapshot.
4. Then fine-tune in 1% increments.
5. Take a Snapshot before you switch to Highlight and Shadow adjustments.
6. Save History if you want to reuse your changes, or click OK to process changes.



## Using 20/20 Color MD With Photoshop



### TO USE 20/20 ON SELECTED AREAS

1. Choose one of Photoshop's selection tools from the tool palette, and select a portion of the image.

2. Open 20/20 Color MD, and make changes as you normally would. The corrections will only be applied to the selected areas.



### PHOTOSHOP LAYERS

Photoshop lets you place artwork on separate layers to make the construction of composite images easy. 20/20 Color MD is designed to work with Photoshop layers, so you can color correct individual elements separately.

### TO USE 20/20 WITH LAYERS

1. Display the layers palette (choose Window>Show Layers).

2. To activate a layer and work on its contents, click on the appropriate layer name listed in the Layers palette. The layer is highlighted to show that it has been selected. Then, open 20/20 Color MD.

3. To work on a portion of one layer, select the layer as described above and use a selection tool to select a portion of that layer. Next, open 20/20 Color MD. The adjustments will be applied to the selected area.



### BATCH PROCESSING

20/20 Color MD supports Photoshop's Action Palette, so multiple images can be processed automatically, with 20/20 Color MD's functions.

### USING PHOTOSHOP'S ACTIONS

1. From within Photoshop's Action Palette, start a new Action.

2. Photoshop will record every step, including 20/20 Color MD functions, so they can be replayed on a batch of images automatically.

3. To replay the action on a single image, select the action in the action palette, and select "play".

To replay the action on multiple images, choose Automate>Batch from Photoshop's File menu. A dialog lets you select an action, choose a folder of images to process, and set other parameters for opening, closing, and saving files.

### LAST FILTER

20/20 Color MD supports Photoshop's Last Filter command located at the top of the Filter menu. This lets you replay 20/20 Color MD's last correction on other images. The menu item is available until you use a different filter.

### FADE

20/20 Color MD supports Photoshop's Fade command, located in the Edit menu. This allows you reduce the effect of the 20/20 Color MD's last adjustment from 0-100%. The Fade command is similar to changing the layer opacity in Photoshop's Layer Palette.