

ColorLink Help Universal Version 1.5

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Acquire to document

ColorLink is a TWAIN compliant application, which means it can easily interface with most TWAIN compliant color flatbed scanners.

To bring images from a scanner directly into a ColorLink document, first open a document or create a new document. To choose which scanner you will acquire images from, use "Select Source..." from the file menu.

Once you have chosen the appropriate scanner from the TWAIN list, select "Acquire..." from the "File" menu. You will then see the Acquire user interface supplied by the scanner manufacturer. Each scanner manufacturer has a unique user interface, and the features vary. Please refer to the users manual supplied with your scanner for specific instructions on using the TWAIN interface.

Image type

Although your scanner may be able to scan in a variety of image types (black & white or line art, dithered color, gray scale, true color, etc.), ColorLink only supports two image types from the scanner: 24 bit color, or 8 bit gray scale. You should select the appropriate scanner settings to scan in one of these formats. Different scanner manufacturers may give different names to these color settings.

24 bit color may be called "Millions of colors", or "True Color", or "16.7 million colors" or "Color Photo".

8 bit gray scale may be called "Gray scale", or "256 shades of gray", or "Black and white photo".

If you select a color format that is not compatible with ColorLink, after you click "Scan" you will see "File format not supported" in the Status Bar at the bottom of the ColorLink application window.

Save As

Once you have activated the final scan by clicking the "Scan" button, ColorLink will prompt you with a "Save As..." dialog box to choose the file name, path, and file format for the scanned image. ColorLink allows you to scan from TWAIN compliant flatbed scanners into a number of file formats: JPEG, Tiff, Targa, BMP, or PCX. If you are scanning pages specifically to compose a color fax document to be sent later, JPEG will generally be the most efficient format to choose.

Some TWAIN scanners (EX: UMAX Vista S6) do not allow a "Save as" dialog box after "Scan" is clicked. In this case, ColorLink will always save as a JPEG file at standard compression level with a pre-assigned file name.

See also:

[Acquire and send Scanners](#)

JPEG

JPEG is a standard compression scheme for color and gray scale images which ColorLink uses to compress all images that are faxed. The compression level is variable (from 1 to 150). A setting of 1 will compress the image as much as possible, allowing very fast modem transfer, but resulting in a poor quality image. A setting of 150 will compress the image as little as possible, resulting in a high quality image, but slow modem transfer. The standard setting of 90 is meant to provide good image quality with reasonably fast modem transfer in most cases.

Because of the way the JPEG compression scheme works, different image will be compressed by factors using the same JPEG setting. (Ex: *Image A* compressed at JPEG 90 may be 25 times smaller than *Image A* uncompressed ; *Image B* compressed at JPEG 90 may only be 15 times smaller than *Image B* uncompressed.) The resulting quality of the images also varies from image to image. (EX: a photo with a blue sky may look "blocky" in the sky area at JPEG 90, but a close-up photo of autumn leaves on a tree may look just like the original, even compressed at JPEG 85.

If you experiment with JPEG settings and find levels that seem appropriate for your faxes, you can update the values associated with "Low", "Standard", and "High" through ColorLinks "Preferences".

Compatibility

The .JPG files ColorLink saves are compatible with many other programs which can read the JPEG format including most popular paint and image editing programs.

Acquire and Send

Acquire and Send is used to fax a color page or multiple pages directly from your TWAIN compliant scanner. The user interface for this feature is the same for all scanners.

Sending a full page

To send one full page using the default settings, simply fill in the modem telephone number of the recipient, or choose a recipient from the phonebook, and click the "Send" button.

ColorLink will scan the page, then dial the number and display the transmission status. Once the fax is completed, the status dialog box will close, and the fax will be recorded in the "Send Log".

Sending multiple pages

There are two ways to send multiple page documents with "Acquire and Send". If you have an Automatic Document Feeder (ADF) attached to your scanner, you can simply place your pages in the ADF, and when you click "Send" ColorLink will scan all of the pages.

If you do not have an ADF that can work with ColorLink, you can send multiple page documents by specifying how many pages you wish to send before you begin. After scanning a page, ColorLink will beep and prompt you with a message asking for the next page. Place the next page on the scanner, then click "Continue". After all pages have been scanned, ColorLink will dial the number you have entered, then display the transmission status for each page.

If you do not respond by clicking "Continue" after a specified time period, ColorLink will begin sending those pages which have already been scanned. The waiting period for you to respond can be set in the "Preferences".

Sending partial pages

If you wish, you may crop the page before sending. If your image is smaller than a full page, this will speed up the transmission time. Click the "Preview" button to activate a preview of the scanner flatbed. You may press the Esc key on the keyboard to cancel a preview part way through this can be useful if you know the approximate size of the image and you don't need to see the whole page. In a multiple page document, every page will be cropped the same way as the first. If the sizes of the pages in the document vary, or if image placement within the pages varies, you should scan the entire page rather than cropping.

Image Type

ColorLink can send images in 24-bit color (16.7 million colors) which is called "Color Photo" in the "Acquire and Send" dialog or in 8-bit gray scale (256 shades of gray).

Resolution

ColorLink allows you great control of the sending resolution of color faxes. The higher the resolution you choose, the better the quality of the final fax, but the fax will also take significantly longer to send.

You may select "Draft" (100 x 100 dpi), "Standard" (200 x 200 dpi) or "Fine" (300 x 300 dpi) resolution; or select "Custom" which lets you send from 30 to 400 dpi in 1 dpi increments. If you need to send at higher than 400 dpi resolution, use "Acquire to document", then "Send Document".

Through ColorLinks "Preferences", you can adjust the default settings of Draft, Standard, and Fine.

(NOTE: ColorLink SE supports "Standard" resolution only)

JPEG Quality

The JPEG quality setting determines the amount of compression applied to a page. This setting is from 1 to 150. The higher the number, the less compression. Default settings for "Low" (80), "Standard" (90), and "High" (100) are selectable from the pull-down menu.

A page at Quality 150 will use the least amount of compression, resulting in the best quality image; but the size of the image will remain very large, and it will take much longer to transmit.

In general, a Quality setting around 90 (Standard) should produce good results in terms of image quality and transfer time. Once you become more comfortable with ColorLink, you may wish to experiment with different quality settings to see the effect on various types of images.

Through ColorLinks "Preferences", you can adjust the default settings of Low, Standard, and High.

(NOTE: ColorLink SE supports "Standard" JPEG Quality only)

Keyboard shortcuts

There are keyboard equivalents or "hotkeys" for many commands and menu items in ColorLink. Generally, hotkeys are indicated in a menu, next to the menu item; for example: "File, Open... Ctrl+O" means that you may open a file by pressing the "Control key" and the letter "O" simultaneously. Following is a list of ColorLink hotkeys.

File Menu:

New...	Ctrl+N
Open...	Ctrl+O
Save	Ctrl+S
Save As...	Ctrl+A
Import...	Ctrl+I
Export...	Ctrl+E
Compress...	Ctrl+M
Acquire...	Ctrl+U
Print...	Ctrl+P

Send Menu:

Document...	F8
From Scanner...	F9
Open Log...	Ctrl+L

Receive Menu:

Manual...	F7
Open Log...	Ctrl+Shift+L

Communication Menu:

Phonebook...	Ctrl+F
Speed Dial...	Ctrl+D

Page Menu:

Fit in Window	Ctrl+0
Fit Sides	Ctrl+9
25%	Ctrl+1
50%	Ctrl+2
Actual Size (100%)	Ctrl+3
200%	Ctrl+4
400%	Ctrl+5
Go To Page...	Ctrl+G
Add Page(s)...	Ins
Remove Page(s)...	Ctrl+Del

Other Tool Related:

For magnify tool

Zoom in	Normal
Zoom out	Ctrl+Click
Fit in window	Ctrl+Shft+Click
Fit sides	Shift+Click

For stretching images

Stretch proportional	Normal
Disproportional	Ctrl+Stretch

Modem setup

Before you begin sending or receiving color faxes, you will need to let ColorLink Receiver know what modem model you intend to use.

To configure ColorLink to work with your modem, open the "Modem Setup" dialog box from the "Communication" menu, and follow the instructions below.

1. Set the modem type to match your modem by selecting from the pulldown list "Modem Type". Choose the modem from the list that most closely matches your modem model. If your modem model is not listed, try selecting either another model by the same manufacturer, or "Hayes Compatible". If these options do not work, see the end of this file for information on creating a custom Modem Personality File.

2. Set the COM port speed. Normally you should set the serial port speed higher than the actual modem speed (i.e.: if using a 14.4Kbps modem, set the port speed at 19.2Kbps). However, you should not set the serial port speed higher than 19.2Kbps unless you have a "high speed" serial port utilizing a 16550 UART such as Hayes ESP.

See also:

[Testing your modem](#)

[Modem Personality files](#)

Testing your modem

To make sure ColorLink is communicating properly with your modem, select "Initialize Modem" from the "Communication" menu.

If ColorLink is able to initialize the modem properly, the status bar will show "OK".

If the modem does not respond properly to ColorLink, the status bar will show "No response from modem" .

If the modem doesnt respond, try the following steps:

1. Make sure the modem power is on, and the modem is connected to your PC. (If using an internal modem, make sure it is seated properly in the slot.)

2. Check the "Modem Setup" dialog box make sure you have selected the correct type of modem, serial port, and port speed.

3. Try switching serial ports. Usually COM 2 is used for modems in Windows, since COM 1 is normally occupied by your mouse. We recommend COM 2 or COM 4 be used in most circumstances

4. Make sure you dont have any other communication software running which could be occupying the COM port. If you do, close it.

5. Refer to the last section of this file for information on creating modem personality files.

Modems Types supported:

ColorLink currently supports modems from the following manufacturers:

Boca	Practical Peripherals
Cardinal	Racal
Digicom	Supra
Hayes	U.S. Robotics
Intel	Zoom
MultiTech	Zyxel

Creating a "Modem Personality File"

If you have a modem that is not listed in the "Modem type" list from the "Modem Setup" dialog box, you should first try selecting the name of another model from the same manufacturer. If no other models by your manufacturer are listed, select Hayes Compatible. If this doesn't work, it may be possible to create a custom "Modem Personality File" (.mpf) to support your modem.

For this procedure, you will need to have your modem's user manual available. Locate the sections on AT Command and Result Code summaries.

In the COLORLNK directory, there are a number of .mpf files. These are text files and may be edited with any text editor. Start by opening the default .mpf for Hayes modems with your text editor. This file is called LTIHAYE.MPF.

The first section of the .mpf will look like this:

```
[MPF]
Model=Hayes Compatible
InitString=AT&FE0V0W2
Dial=ATDT
Answer=
Hangup=ATH
```

1. Change the line "Model=Hayes Compatible" to list the name of your modem.
2. The Init String line lists a series of AT commands that will be sent to your modem to configure its options. Leave the "AT" at the beginning of this line.

The "&F" in this example is the command to reset the modem to the factory default configuration. In your modem manual, locate the AT command that sets the modem to default configuration, and substitute that command for "&F".

"E0" in this example turns off the echo of keyboard characters to the screen. Substitute the appropriate command listed in your manual for "E0".

"V0" sets the modem to display result codes as numbers. Substitute the appropriate command for your modem.

W2 causes the modem to return connect messages using modem-modem (DCE speeds instead of modem-DTE speeds). Locate and fill in the appropriate commands for your modem.

3. Leave the last three lines of this section as they are.

If any of the above AT commands in the init string do not exist for your modem, leave them blank.

4. The next section of the file is a table of response codes. Shown below is the sample table for Hayes compatible modems. The column on the left of the equals sign indicates a command that will be issued by ColorLink. The numbers on the right indicate the response command that will be sent back. In bold type to the right is the meaning of each of these responses. From the response code list in your modem user manual, substitute the response codes with the same meanings as those below.

[Table]	
0=0	OK
1=1	CONNECT (LOW)
2=2	RING
3=3	NO CARRIER
4=4	ERROR

5=5	CONNECT 1200
6=6	NO DIALTONE
7=7	BUSY
8=8	NO ANSWER
9=	CONNECT 600
10=10	CONNECT 2400
11=11	CONNECT 4800
12=12	CONNECT 9600
13=13	CONNECT 14400
14=14	CONNECT 19200
15=	CONNECT 38400
16=28	CONNECT 57600
17=18	RESERVED
18=	RESERVED
19=	RESERVED
20=40	CARRIER 300
21=47	CARRIER 2400
22=48	CARRIER 4800
23=	CARRIER 7200
24=50	CARRIER 9600
25=52	CARRIER 14400
26=	CARRIER 19200
27=	CARRIER 28800
28=	CARRIER 38400
29=	CARRIER 57600
30=	RESERVED
31=77	LAPM V.42
32=67	V.42BIS
33=66	MNP/5
34=	RESERVED
35=	RESERVED
36=	RESERVED

If any of these response codes is not available for your modem, leave a blank. Some modems may have more than one response code with the same meaning, in this case list both, with a comma in between. EX: 13=13,35.

5. Once you have created the response table, save the file into the COLORLNK directory with a new file name for your modem. You will now be able to select the modem from the "Modem Type" list in the "Modem Setup" dialog box.

Preferences

Sending:

Resolution Settings & JPEG Settings

When you send a fax using "Acquire and Send", ColorLink lets you select preset resolutions for "Draft", "Standard", and "Fine", and preset compression levels "Low", "Medium", and "High". You may change the values of these settings in the preferences file.

EX: If you enter *273 dpi* as the setting for "Standard" resolution, every time you choose "Standard" in the "Acquire and Send" dialog, the page will be scanned at 273 dpi.

Lowest speed to connect

Depending on the conditions of the telephone line you are faxing through, your modem may not always be able to maintain a connection at its maximum transfer speed. If the line is too "noisy", the speed will automatically be lowered until data communication is clean. ColorLink allows you to set the minimum speed you wish to maintain a connection. If you want all faxes to be sent no matter how long they will take, set this value at 300. If you want faxes to go through only when they are reasonably fast, set 9600 or 14400 as the lowest speed.

Timeout for multiple-page scan

When you use "Acquire and Send" to send a multiple page document without an Automatic Document Feeder, ColorLink will beep and prompt you between pages. You must then place the next page on the scanner and click the "Continue" button. If you do not respond, rather than continuing to wait ColorLink will hang up after a specified period.

You may set this waiting period in the "Preferences" as "Timeout for multiple-page scan". The default is 60 seconds. ColorLink will wait 60 seconds for you to respond before hanging up.

General:

Enable background printing

By default, ColorLink will print in the background. This means that your computer is free to do other things, such as receive incoming color faxes or work in other programs even while ColorLink is printing a file. Because it is allowing "multi-tasking", background printing may be a little slower than regular "foreground" printing. To speed up printing somewhat, you may turn background printing off. Without background printing, ColorLink may print pages a little or a lot faster depending on your printer and various other factors in your system; but, while ColorLink is printing, your computer will be unable to perform most other tasks such as receiving incoming faxes.

While ColorLink is sending data to your printer driver in the background, it is possible for your computer to become very busy processing other tasks (ex: you may be running other applications that require a lot of your computer's resources). If you run into printing errors such as "timeout", or "the printer is not responding" you can try the following:

- a. Open the "Printers" Control Panel, click the "Connect" button, and increase the "Transmission Retry" setting from 45 seconds to 900 seconds (or something in between).
- b. Avoid running very CPU intensive tasks while ColorLink is printing.
- c. Turn off background printing.

Ruler setup

ColorLink's rulers may be set to display either inches or centimeters.

Maximum number of images in memory

When ColorLink displays an image on screen, it reads the image from disk or from the scanner, then puts a sample of the image into memory (RAM). When you switch between pages in a document, ColorLink puts more images into memory. Image files are usually very large, and even the sample ColorLink puts into memory is fairly large.

In order to avoid running out of memory on your computer, ColorLink will eventually discard some images from memory to make room for new ones. Through the "Preferences" dialog, you can set how many new images ColorLink will place in memory before discarding older ones.

If you have a lot of memory you can set the "Maximum number of images in memory" higher. This will allow you to move quickly from page to page in a document since ColorLink won't have to read from disk repeatedly.

If you experience "Out of memory" errors when opening images, you should lower this setting, and try quitting other applications.

(NOTE: Some preferences are not available in ColorLink SE)

Receiving faxes

ColorLink can receive color faxes either manually or automatically.

Manual reception

Manual reception should be used if your modem and telephone share the same phone line or if you also use your modem for other applications.

Select "Manual..." from the "Receive" menu, and ColorLink will begin to monitor the modem for an incoming call. Once connected, ColorLink will activate the selected receive options described below. After completion of the fax, ColorLink will release the Com Port for use by other applications.

Automatic reception

To setup ColorLink for automatic receiving, choose "Setup..." under the "Receive" menu. In the dialog box, check the box marked "Automatic Reception", and enter the number of rings you wish to allow before picking up the call. The right side of the ColorLink status bar indicates whether or not automatic reception is enabled.

Receive options

ColorLink will save incoming faxes to disk. After the call is completed, ColorLink can perform any one of the following options:

1. "Print" - Print the fax to the selected printer. (ColorLink will send to whichever printer is selected in "Printer setup".)
2. "View"- View the fax on screen.
3. "Make Thumbnails" - Generate small "thumbnail" images of each page which you can view when opening documents, or when changing pages in a document.
4. "Quiet"- Do nothing.

(NOTE: ColorLink SE doesn't support printing after receiving)

See also:

[Modem Setup](#)

Sending documents

ColorLink gives you a wide variety of options for sending document files:

You may send the currently open document file, or any document file from disk.

You may schedule documents to be sent at a specific time of day.

You may send a document to a single recipient, or create a recipient list for "broadcast" sending.

If your document contains image files that are not yet JPEG compressed (such as Targa, Tiff, BMP, or PCX files), you may either compress the images "on the fly" during the transmission, or compress to disk first, then send the file automatically. See [Send options](#).

To send the active document, select "Document..." from the "Send" menu. Fill in the recipients information by typing in the fields, or selecting a name from the phonebook. Click "Send".

NOTE: If the active document is untitled and has not been saved, you must save it before sending.

To send a different document from disk, select "Document..." from the "Send" menu, then select the document file name from the files list, then follow the instructions above.

Scheduled sending

To schedule a document to be sent later, select the document file name and receiver information, then click "Schedule". Set the time to send and click "Send". The sending "job" will be placed in a queue until it is sent.

(NOTE: This feature is not available in ColorLink SE)

Broadcasting (sending to multiple recipients)

To send a document to more than one recipient, select the document to send as above, fill in the recipients information, then click the button "More". Click "Add" to add the name to the recipient list. Fill in the next recipients information, then click "Add" again. Once the list is complete, click "Send" to put all of the send jobs in a queue. ColorLink will dial to the first recipient and send the document. Once the transfer is completed, ColorLink will hang up and dial the next recipient.

NOTE: Scheduling, Broadcasting, and Selecting various document files can be combined. For example, you can build a recipient list that contains various documents to send to various recipients at different scheduled times, all from one "Send document" dialog box.

(NOTE: This feature is not available in ColorLink SE)

Send options

For Additional sending options, select "Send Setup..." from the "Send" menu.

For "Send document" only:

Compress and save, then send this option will cause all of the uncompressed images in a document to be compressed to disk as temporary JPEG files before the document is sent. This will decrease the telephone connection time, but could require quite a bit of free hard disk space.

Compress and send on the fly this option will cause all uncompressed images in the document to be compressed during the document transmission. This will not require any additional disk space, but could require a longer telephone connection time.

If all images in the document are already JPEG compressed, these options will not have any effect.

For "Acquire and Send" only.

During "Acquire and Send", ColorLink creates temporary document and image files on the hard disk before sending.

To automatically delete temporary document files after "Acquire and Send" check the box "Delete Document Only"

To also delete the associated image files, check the box "Purge Image Files"

Technical Support

If you have difficulty with installation or operation of the software and cannot find the answers in the users manual or online help, you may contact Laser Today technical support.

New purchasers of ColorLink are eligible for 90 days of free technical support.

We must receive your product registration card before we can provide you wish support. If you have not mailed your registration card, you may fax it to (415) 961-7631.

Once you have registered, you may contact the Laser Today technical support hotline at (415) 961-7621.

Before you call, please know the serial number and version number of your software.

If your call is forwarded to our technical support voice mail system, please leave your name, company name, phone number, serial number, and a brief description of the problem. Your call will be returned as quickly as possible.

HelpLink extended service plans are available on an annual basis. These plans offer ongoing support, discount on product upgrades, and other special incentives. Please ask your dealer or the Laser Today Technical Support Representative for further details.

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Scanners

Laser Today has thoroughly tested ColorLink with the following scanners:

Canon	CJ-10
Envisions	ENV 6100, ENV 6600S
Epson	ES 600C, ES 800C
Hewlett-Packard	ScanJet IIc
Microtek	ScanMaker IIsp
Relysis	Avec Colour 2400
Ricoh	FS2
Umax	Vista S6

Most other TWAIN compliant color flatbed scanners should function properly with ColorLink; however, there are variations in the way each scanner manufacturer implements their TWAIN interface. Because of these variations, Laser Today sometimes needs to make small code modifications to work properly with a particular scanner. If your scanner is not on the list above, and you are having some difficulty getting it to function properly with ColorLink in either "Acquire and send" or "Acquire to document", please contact Laser Today technical support at (415) 961-7621. Before calling, please note the scanner model and the TWAIN driver version number.

Automatic Document Feeders (ADFs)

Many scanner manufacturers offer ADFs as options for feeding multiple sheets into the scanner automatically.

To use an ADF with "Acquire and send":

1. Do not click "Preview". If you do, a page will be fed in and previewed, but when you click "Send", the next page will be fed, and the page you previewed will be skipped. If you really want to preview, after the first page is previewed you should remove it from the scanner flatbed and place it back in the document feeder so that it will be the first page fed.

2. Click the button "ADF Auto detect" if you want to send all pages in the feeder.

3. Click the button "Specify number of pages" and type in the number if you want to send only a few pages from a stack on the feeder.

NOTE: Some ADFs will not work with "ADF Auto detect", in this case use "Specify number of pages".

NOTE: Some ADFs automatically set the scanner in black & white mode, and do not work for color. In this case, contact your scanner manufacturer to see if there is an update or upgrade.

To use an ADF with "Acquire to document":

See the users manual for your scanner for information on using the TWAIN interface.

