


This is a collaborative doc in [Kodak / Pakon F135 Scanner](#).

Edit

TLX: Scan half-frame, panoramic, 3D film

 SAMUEL HARVEY · MONDAY, 1 FEBRUARY 2016 ·

This solution does not require manual adjustment of framing for each image after scanning. Once you determine the correct Pre-Scan values for your camera, scan your film, wait (sip your coffee / tea), then make color adjustments and save your images.

1. Open TLX
2. Go to "Pre-Scan" (menu) and select "35mm 16 Base"
3. Under "Framing", set "Width (px)" to something appropriate (try 1500 for half frame, 5500 for panoramic)
4. Set "Unit Width (px)" to 206 greater than "Width (px)" was set to
5. Under "Cropping", set "Right (pixels)" to 1 less than "Width (px)"
6. Click OK
7. Click Scan
8. Set all your usual preferences
9. Click Scan. You may need to re-scan if your "Width (px)" value was not quite right. Unfortunately, TLX does not seem to support changing these values and re-framing the roll after it has been scanned.

Example calculations (your camera may require different values):

Panoramic frame with average frame width of 5500 px

Width (px): 5500

Unit Width (px): $5706 = 5500 + 206$

Cropping -> Right (pixels): $5499 = 5500 - 1$

Hasselblad XPAN (original)

Width (px): 5530

Unit Width (px): $5736 = 5530 + 206$

Cropping -> Right (pixels): $5529 = 5530 - 1$

Hasselblad XPAN II

Width (px): 5465

Unit Width (px): 5585

Cropping -> Right (pixels): $5464 = 5465 - 1$

Half-frame (NOT universal values, just a place to start from):

Width (px): 1500

Unit Width (px): $1706 = 1500 + 206$

Cropping -> Right (pixels): $1499 = 1500 - 1$

Type 126 film (not recently tested, but values pulled from an old group post):

Width (px): 2630

Unit Width (px): $2660 = 2630 + 30$

Cropping -> Right (pixels): $2629 = 2630 - 1$

Horizon 202

Width (px): 4925

Unit Width (px): 5000

Cropping -> Left (pixels): 10

Cropping -> Right (pixels): 4880

Cropping -> Top (pixels): 20

Cropping -> Bottom (pixels): 1999

Horizon Perfekt

Width (px): 5025

Unit Width (px): 5100

Cropping -> Left (pixels): 10

Cropping -> Right (pixels): 4880

Cropping -> Top (pixels): 20

Cropping -> Bottom (pixels): 1999

Widelux

Width (px): 4910

Unit Width (px): 5350

Cropping -> Right (pixels): 4909

Revere Stereo 33

Width (px): 2040

Unit Width (px): 2246

Cropping -> Right (pixels): 2039

How to guess a frame width to start with

1. Grab a metric ruler with millimeter markings
2. Measure the length of 1 (or more) frame(s) of your film along the sprockets (diptychs, triptychs, etc)

3. Perform this calculation:

1. (Long side length in mm) / 24mm * 2000ppi = frame width in pixels

Example: XPan (65mm x 24mm):

2. 65mm/24mm * 2000ppi = 5416px

4. The result should be a good starting value for "Width (px)". It may need tweaking.

This guesstimation formula is based on the assumption that a standard frame of 35mm measures 36x24mm and scans at 3000x2000px. Your mileage may vary.

Once you have found what works for your camera, please share the make / model of your camera, and the values you used.

Q: Can I export an entire roll as a single image?

A: No. Not in PSI, not in TLX. Yes, the JPEG format supports images up to 65,535 px in either dimension, but the underlying image export library was probably written in the late '90s or early '00s, and was tuned for commodity PC hardware of that time. It's not weird that it doesn't support the export of 215 MP images that are 115,000 px long.

Did I make your day, save you time, or stop you from throwing your Pakon / computer out of a window?

Flattr me: flattr.com/profile/sgharvey

Buy me a beer: paypal.me/sgharvey

PayPal email address: KephnosAnagennao@gmail.com

You and 10 others

80 comments 2 shares



Like

Comment

Save



Samuel Harvey Monaco Miracle

Like · Reply · 3y



Samuel Harvey Ray Toei

Like · Reply · 3y



Samuel Harvey Added formula for guessing frame width. Please comment with data for your own camera so it can be improved.

Like · Reply · 3y



Pierre Leiba u should add settings for 126 to this.. https://www.facebook.com/photo.php?fbid=859344824181531&set=pcb.1052124794806557&type=3&relevant_count=2

Like · Reply · 3y



Samuel Harvey replied · 1 reply



Samuel Harvey As soon as there is a good list of tested values, I may write another script (or set of scripts) that will prep TLX for pano / half frame / 126 scanning.

Like · Reply · 3y



1



Monaco Miracle When I have access to my scanner, Ill test with some Horizon202 and Nishika 3D N9000 strips!

Like · Reply · 3y

1



Josh A Katz replied · 6 replies



Samuel Harvey Mike Ryan

Like · Reply · 3y

1



Samuel Harvey replied · 2 replies



Samuel Harvey Carly Seitz

Like · Reply · 3y



Samuel Harvey Bill Ellis, Joel Foo, Kevin Pazmino, Tony Popovic, Kalma Juan, Stacey Schmitz, John Lockwood, Plane Mechanics, Trevor Crump, Matthew Stoneback

Like · Reply · 3y

1



Samuel Harvey replied · 3 replies



Samuel Harvey Sean Koh, Kenny Pelczar, William Wilkinson, Ash Ponders, Ollie Shaw, Russell Watson

Like · Reply · 3y

3



William Wilkinson Thanks! Very helpful.

Like · Reply · 3y



Samuel Harvey Kevin Pazmino This is a solution that does not require frame-by-frame adjustments. Set the Pre-Scan values correctly, then scan normally. No post-scan framing is necessary once you find the right values for your camera.

Like · Reply · 3y

1



Samuel Harvey Bill Lynch

Like · Reply · 3y



Samuel Harvey Kyle Michaels

Like · Reply · 3y



Samuel Harvey Vu Man

Like · Reply · 3y



Robert Walwyn just tested it with my xpan, 5530 as width (px) seems to work a treat, there is a tiny bit of black borders that i will crop in post. Thanks so much [Samuel Harvey](#) will be sure to shout you a beer when i have a bit more money, this will save me much time and thats the whole benefit of the pakon!

Like · Reply · 3y

3



Samuel Harvey replied · 3 replies



Aadi Salman I finally got the chance to try it. Works great! Thanks [Samuel Harvey](#)

Like · Reply · 3y

1



Samuel Harvey Added values for Horizon 202 courtesy of [Monaco Miracle](#)

Like · Reply · 3y · Edited

1



Samuel Harvey Added values for Horizon Perfekt courtesy of [Fabien Holzer](#)

Like · Reply · 3y

1



Ray Toei [Samuel Harvey](#), just a quick message on Half-Frame. Works well on 1500+206 width. Because I get the DX error after I scan, saving the file becomes quite laborious, I have to rename it before the filename "DX Error" keeps writing over the same file. I e... [See more](#)



Like · Reply · 3y

2



Ray Toei replied · 3 replies



Saptarshi Joy Guha What would be the pre-scan for the nishika (9000) (or if not 9000, then 8000) ?

Like · Reply · 3y



Josh A Katz replied · 4 replies



Jonathan Reeves Would love some input/guidance for scanning Lomokino negs! Anybody? I'll be digging into it, but I'm a TLX newbie, so it'll probably be slow.

Like · Reply · 3y



William Wilkinson replied · 4 replies



Eric Meltzer Does anyone know what limits the file size TLXclient is able to save? Is it just a RAM limitation? I'd like to just save my entire roll of nimslo quadrosopic shots as one giant file and let photoshop chop it up later

Like · Reply · 3y



Yung Sawo replied · 3 replies



Jonathan Munn Very, very helpful!

Like · Reply · 3y

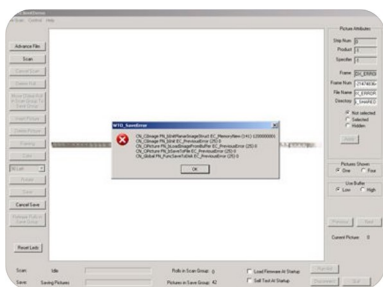


Samuel Harvey Added Widelux Pre-scan values

Like · Reply · 3y



Chase Castor What am I doing wrong!? Scanning a roll shot through a Nishika 3D camera and I'm getting this error message



Like · Reply · 3y



Josh A Katz replied · 7 replies



Kevin Rosinbum This is brilliant as usual Samuel. Thanks very much. I'll have a go with my Agat 18k roll once it's finished and report what I find.

Like · Reply · 3y



Thodoris Markou pretty nice instructions, thanks!

Like · Reply · 3y



Samuel Harvey Joey Sandiego

Like · Reply · 3y



Samuel Harvey Updated to include XPAN II values.

Like · Reply · 3y



Samuel Harvey Saptarshi Joy Guha, found your people.mozilla.org/~sguha article. If you haven't heard about this yet, you'll probably be excited enough to break your XPAN out again (if you haven't sold it by now).

Like · Reply · 3y



Saptarshi Joy Guha Nope. I still enjoy the xpan. Don't need the 90mm lens but the camera itself is wonderful.

Like · Reply · 3y



Dante Stella Great shortcut!

Like · Reply · 3y



Dante Stella One other thing I would add - if your exposure is generally consistent, you can also just grab the entire strip at the same time and apply a single global correction to brightness (just as you would make the film base "black" on a contact print.

Like · Reply · 3y



Joey Sandiego Robert Pavich: this is what you need

Like · Reply · 3y



Joey Sandiego replied · 2 replies



Jacob Colmenero Can I export an entire strip? Strips is about 4-5 frames large, I know you cannot do whole rolls but what about whole strips?

Like · Reply · 2y



Trevor Crump replied · 1 reply



Chad Herbert For stereo cameras, I use a width of 2040. This works well for my Revere Stereo 33, but should also be a good starting point for any Realist-format camera.

edit: Added to the document

Like · Reply · 2y · Edited



Rob Kirkland Bronica 135w
4600
4806... [See more](#)

Like · Reply · 2y



Fahad Khokhar Anybody tried scanning lomography 360 spinner pictures with the Pakon?

Like · Reply · 2y



Julija Svetlova Dropping my first Xpan films off for processing today, then will attempt this! Thanks

Like · Reply · 1y



Write a comment...