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Hello volvo_nut_v70

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July 06, 2020, 03:02:29 pm

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📄 Author   Topic: Tek TDS3000 pacmanBuildView (Read 1944 times)

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☐ **Jwalling**

Supporter

🟩🟩🟩🟩

Posts: 1337
Country: 🇺🇸

This is work?

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📎 **Tek TDS3000 pacmanBuildView**
« **on:** November 02, 2018, 11:09:53 am »

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This TDS3012 came to me in an unusual state. At first I thought it was some sort of internal engineering build of the firmware, but while playing around in the menus I somehow managed to put the scope back in a "normal" state. I think I was messing around in the developer menu...

Weird... 😳

I really wish I hadn't put the scope back to default, I wanted to play some more.
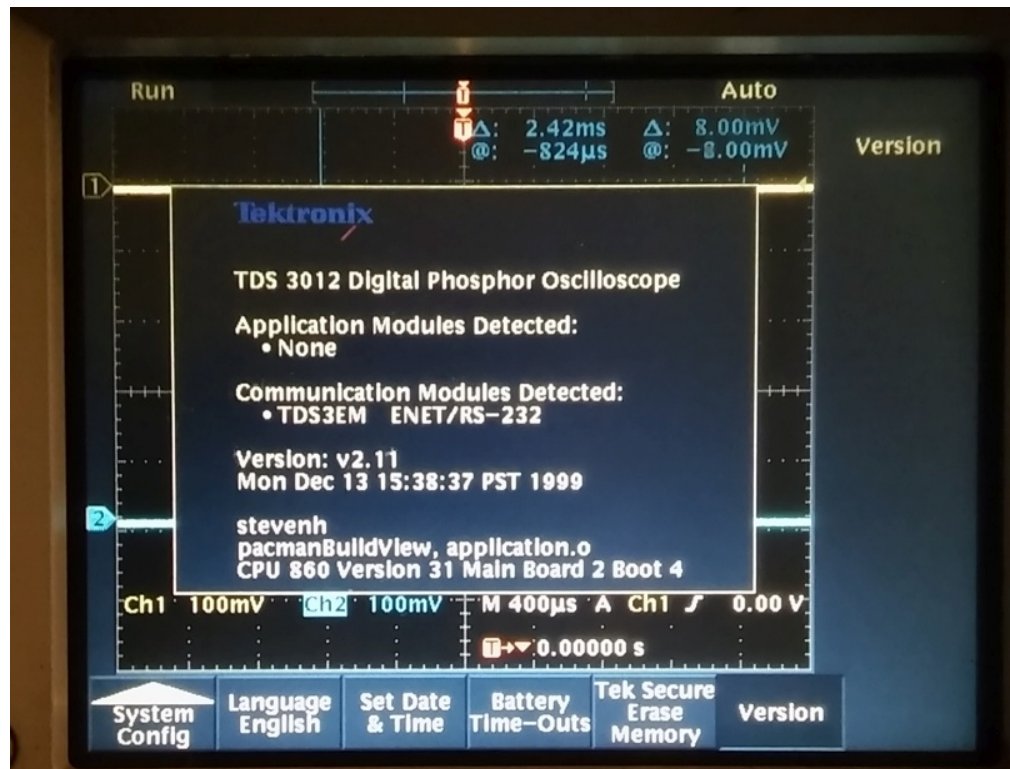
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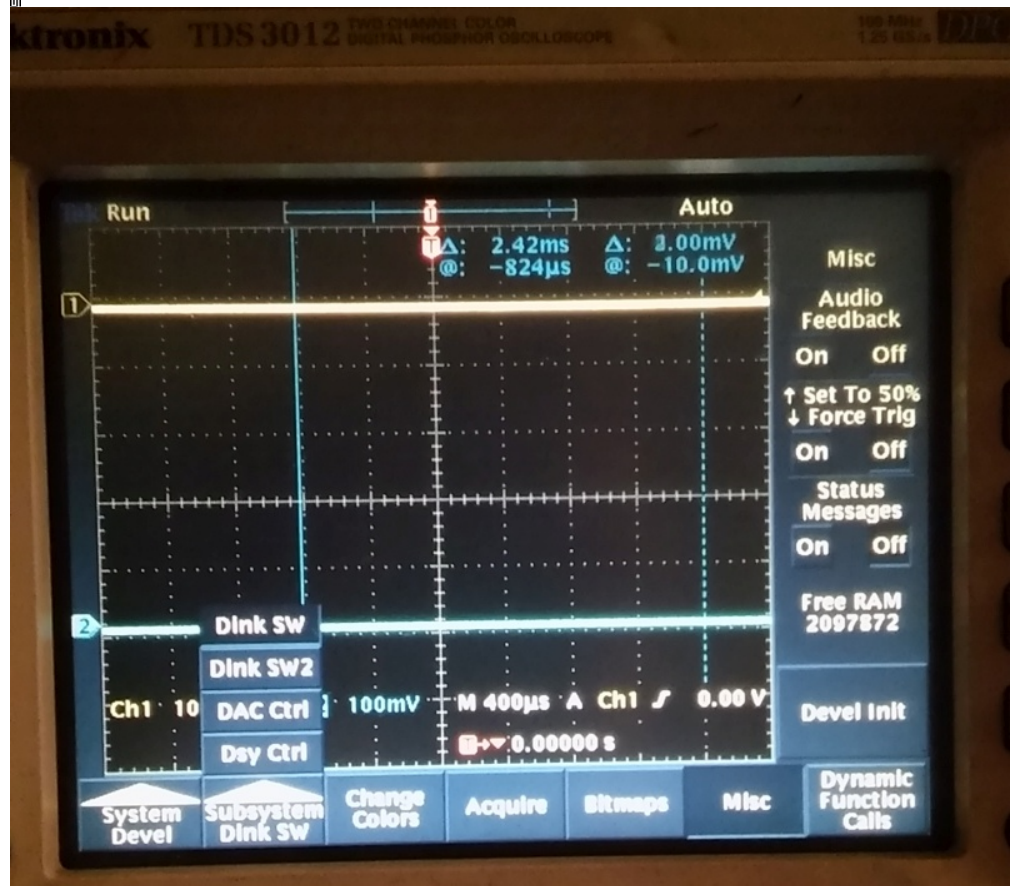
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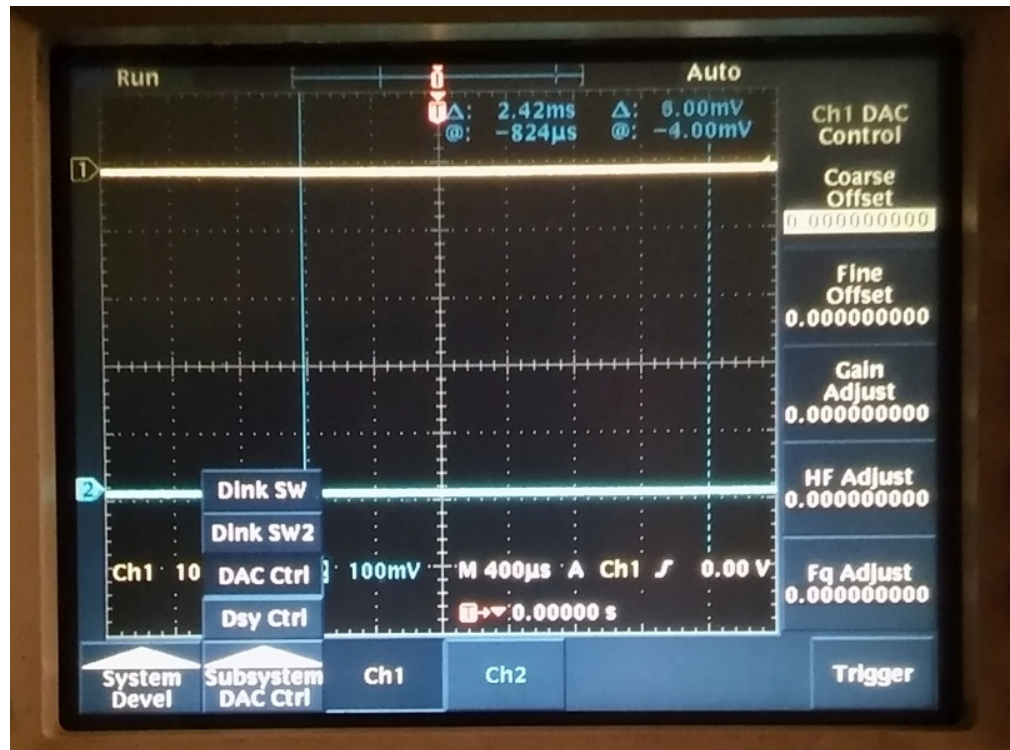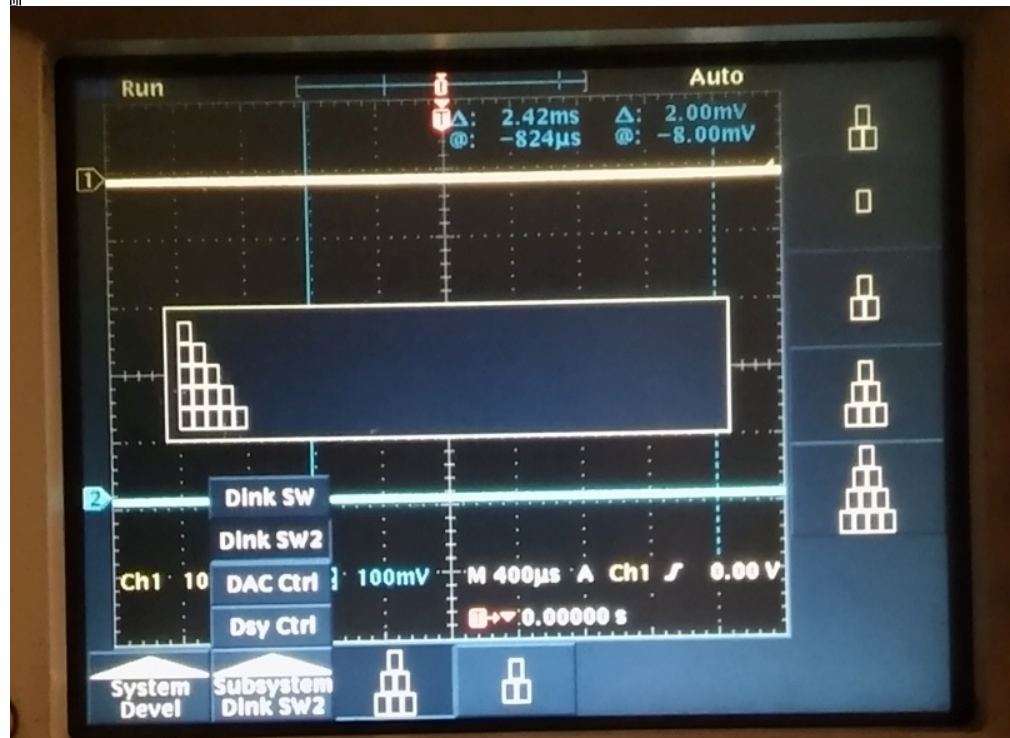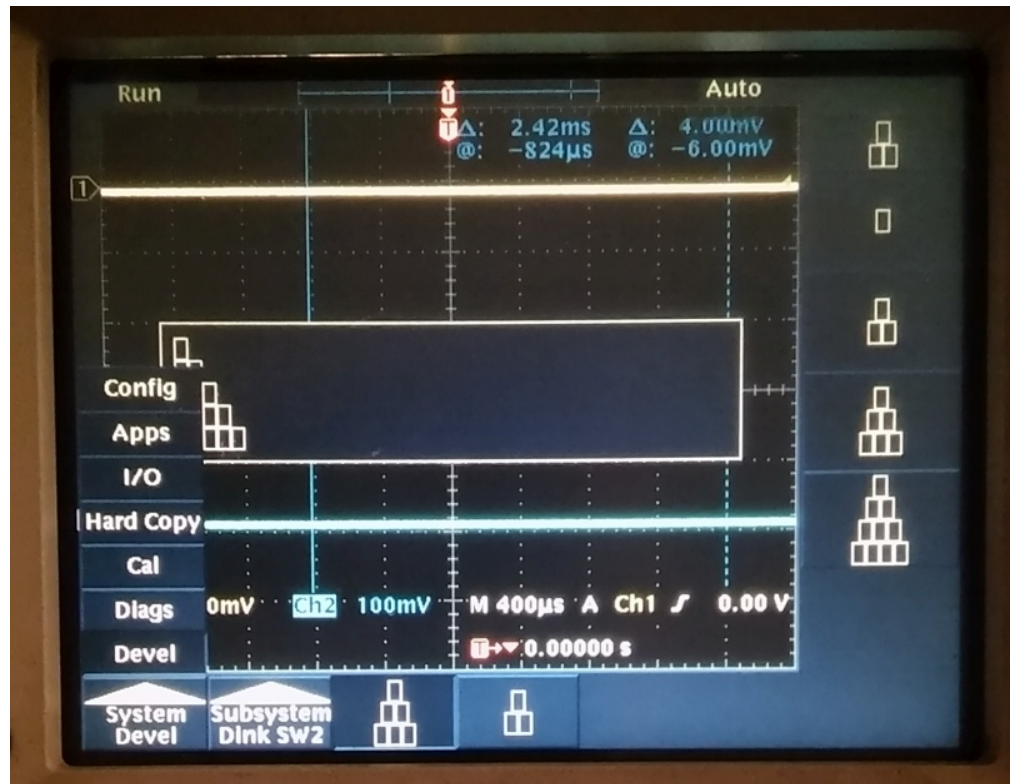
20181102_063732.jpg (148.04 kB, 800x624 - viewed 268 times.)

20181102_063800.jpg (148.61 kB, 800x612 - viewed 270 times.)

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Jay

System error. Strike any user to continue.

Re: Tek TDS3000 pacmanBuildView   Say Thanks   Reply   Quote
« **Reply #1 on:** November 02, 2018, 08:51:33 pm »

tautech

Super Contributor

Were you just in some part of the Service menu ?

Posts: 18386
Country:

Taupaki Technologies Ltd. NZ
Siglent Distributor

For a TDS2k from the Service manual:
1. Power on the oscilloscope.
2. Push the front-panel MEASURE button to access the MEASURE menu.
3. Push the top option button to access the Measure 1 menu.
4. Push and hold the front-panel SINGLE SEQ button.
5. Push and hold the front-panel AUTOSET button.
6. Wait at least two seconds.
7. Release the SINGLE SEQ button.
8. Release the AUTOSET button. A message appears in the lower left corner of
the screen stating "Service mode ON."
9. Push the front-panel UTILITY button. The last item in the Utility menu is
now "Service."
At completion of the Adjust procedure disable the "Service" menu through the
UTILITY front panel button, the "Service" option button, and the "Service"
Mode Off" option button.

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~~Avid~~ Rabid Hobbyist

☐ **Jwalling**
Supporter

Posts: 1337
Country:

This is work?

Re: Tek TDS3000 pacmanBuildView
« **Reply #2 on:** November 04, 2018, 10:27:45 am »

Say Thanks   **Reply**   **Quote**

Quote from: tautech on November 02, 2018, 08:51:33 pm

> Were you just in some part of the Service menu ?
>
> For a TDS2k from the Service manual:
> 1. Power on the oscilloscope.
> 2. Push the front-panel MEASURE button to access the MEASURE menu.
> 3. Push the top option button to access the Measure 1 menu.

At step 3, the TDS3K top menu button is "snapshot all measurements" I continued on anyway, but no service menu.

If this was a service menu, odd that it would survive a power cycle.

Report to moderator   Logged

Jay

System error. Strike any user to continue.

☐ **tautech**
Super Contributor

Posts: 18386
Country:

Taupaki Technologies Ltd. NZ
Siglent Distributor

Re: Tek TDS3000 pacmanBuildView
« **Reply #3 on:** November 04, 2018, 06:50:58 pm »

Say Thanks   **Reply**   **Quote**

Quote from: Jwalling on November 04, 2018, 10:27:45 am

> **Quote from: tautech on November 02, 2018, 08:51:33 pm**
>
> > Were you just in some part of the Service menu ?
> >
> > For a TDS2k from the Service manual:
> > 1. Power on the oscilloscope.
> > 2. Push the front-panel MEASURE button to access the MEASURE menu.
> > 3. Push the top option button to access the Measure 1 menu.
>
> At step 3, the TDS3K top menu button is "snapshot all measurements" I continued on anyway, but no service menu.
>
> If this was a service menu, odd that it would survive a power cycle.

OK the 3k seems a bit different.
From the TEK wiki site
http://w140.com/tek_tds_3000_series_service.pdf

Factory Adjustment Procedure
To perform the factory adjustment procedure, do these steps:
1. Locate the hole that provides access to the CAL switch on the rear panel.
CAL
2. Put the adjustment tool into the CAL switch hole. Push and hold the CAL switch in while you power
on the oscilloscope. Release the switch when the oscilloscope shows the power-on message with the
oscilloscope graticule in the background.
3. Push the SAVE/RECALL button.
4. Push the Recall Factory Setup screen button.

5. Push the OK Confirm Factory Init screen button to restore factory settings prior to doing the factory calibration.
6. Push the MENU OFF button.
7. Push the UTILITY button.
8. Push the System screen button to select Cal.
9. Push the Factory screen button.
10. Push the OK Do Factory Calibration screen button to start the adjustment process
11. Connect signals from the DC voltage source, leveled sine wave, or fast-rise generator as instructed by the oscilloscope display. After you connect the correct signal, push the OK Do Next Step screen button to continue the
process.

NOTE. The oscilloscope adjusts itself automatically using the reference signal from the DC voltage source, leveled sine wave, or fast-rise generator. There are no manual oscilloscope adjustments that you need to make.
If you make an error, such as connecting the wrong input signal, you can repeat the last step by pushing the Return to Previous Screen screen button.

12. Continue the adjustment process until it is complete. You can abort the process at any time by pushing the MENU OFF button or by changing to a different menu.

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~~Avid~~ Rabid Hobbyist

The following users thanked this post: Jwalling, wolfy007

Jwalling

Supporter

Posts: 1337
Country: 🇺🇸

This is work?

Re: Tek TDS3000 pacmanBuildView   Say Thanks   Reply   Quote
« **Reply #4 on:** November 06, 2018, 10:28:44 am »

Thanks, but I don't want to take a chance of losing the factory calibration.

Report to moderator   Logged

Jay

System error. Strike any user to continue.

tautech

Super Contributor

Posts: 18386
Country: 🇳🇿

Taupaki Technologies Ltd. NZ
Siglent Distributor

Re: Tek TDS3000 pacmanBuildView   Say Thanks   Reply   Quote
« **Reply #5 on:** November 06, 2018, 10:59:43 am »

Quote from: Jwalling on November 06, 2018, 10:28:44 am

Thanks, but I don't want to take a chance of losing the factory calibration.

I remember once diving into my TDS2012B service menu and the 'adjustment' is just one part of the service menu.
A smart guy like you wouldn't be changing anything. 😊

Maybe with the Cal switch left OFF you can still enter the menus and just have a look around for the 'hidden' menu you were in.

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~~Avid~~ Rabid Hobbyist

Jwalling

Supporter

Posts: 1337
Country: 🇺🇸

This is work?

Re: Tek TDS3000 pacmanBuildView   Say Thanks   Reply   Quote
« **Reply #6 on:** November 07, 2018, 01:55:47 pm »

Quote from: tautech on November 06, 2018, 10:59:43 am

Quote from: Jwalling on November 06, 2018, 10:28:44 am

Thanks, but I don't want to take a chance of losing the factory calibration.

I remember once diving into my TDS2012B service menu and the 'adjustment' is just one part of the service menu.
A smart guy like you wouldn't be changing anything. 😊

Maybe with the Cal switch left OFF you can still enter the menus and just have a look around for the 'hidden' menu you were in.

OK, you talked me into it. I booted up with the cal button pressed in. I can now enter the factory

calibration menu, but I don't see those weird menus anywhere, nor does the scope show that
pacmanBuildView on boot-up.

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Jay

System error. Strike any user to continue.

☐ **analogRF**

Frequent Contributor

🟨🟨

Posts: 462
Country: 🇨🇦

Re: Tek TDS3000 pacmanBuildView
« **Reply #7 on:** December 25, 2019, 02:11:19 pm »

Say Thanks   Reply   Quote

> **Quote from: Jwalling on November 07, 2018, 01:55:47 pm**
>
> > **Quote from: tautech on November 06, 2018, 10:59:43 am**
> >
> > > **Quote from: Jwalling on November 06, 2018, 10:28:44 am**
> > >
> > > Thanks, but I don't want to take a chance of losing the factory calibration.
> >
> > I remember once diving into my TDS2012B service menu and the 'adjustment' is just one part of the service menu.
> > A smart guy like you wouldn't be changing anything. 😊
> >
> > Maybe with the Cal switch left OFF you can still enter the menus and just have a look around for the 'hidden' menu
> > you were in.

Jwalling, did you ever find out what that developer menu was and how to enable it again?
My TDS3054B also came with a developer menu and while playing with it (not changing anything like
DAC gain etc...) I managed to
disable it and now it does not appear anymore. I was wondering how it can be activated again...I
didn't get to see all the things that it can control...
OK, you talked me into it. I booted up with the cal button pressed in. I can now enter the factory
calibration menu, but I don't see those weird menus anywhere, nor does the scope show that
pacmanBuildView on boot-up.

Report to moderator   Logged

☐ **Jwalling**

Supporter

🟩🟩🟩🟩

Posts: 1337
Country: 🇺🇸

This is work?

Re: Tek TDS3000 pacmanBuildView
« **Reply #8 on:** December 26, 2019, 10:31:52 am »

Say Thanks   Reply   Quote

> **Quote from: analogRF on December 25, 2019, 02:11:19 pm**
>
> Jwalling, did you ever find out what that developer menu was and how to enable it again?
> My TDS3054B also came with a developer menu and while playing with it (not changing anything like DAC gain etc...) I
> managed to
> disable it and now it does not appear anymore. I was wondering how it can be activated again...I didn't get to see all the
> things that it can control...
> OK, you talked me into it. I booted up with the cal button pressed in. I can now enter the factory calibration menu, but I
> don't see those weird menus anywhere, nor does the scope show that pacmanBuildView on boot-up.

Never saw it again or figured out how it happened, and I've worked on many of these since then.

Report to moderator   Logged

Jay

System error. Strike any user to continue.

The following users thanked this post: analogRF

☐ **analogRF**

Frequent Contributor

🟨🟨

Posts: 462
Country: 🇨🇦

Re: Tek TDS3000 pacmanBuildView
« **Reply #9 on:** December 26, 2019, 11:45:06 am »

Say Thanks   Reply   Quote

strange 😕
seems hardly anybody have seen this. My guess is that there must be a remote command that puts
the scope in that mode. or maybe a combination of keys during boot.
I thought people who have worked on the firmware and found out all those passwords and way to
upgrade the BW would know...

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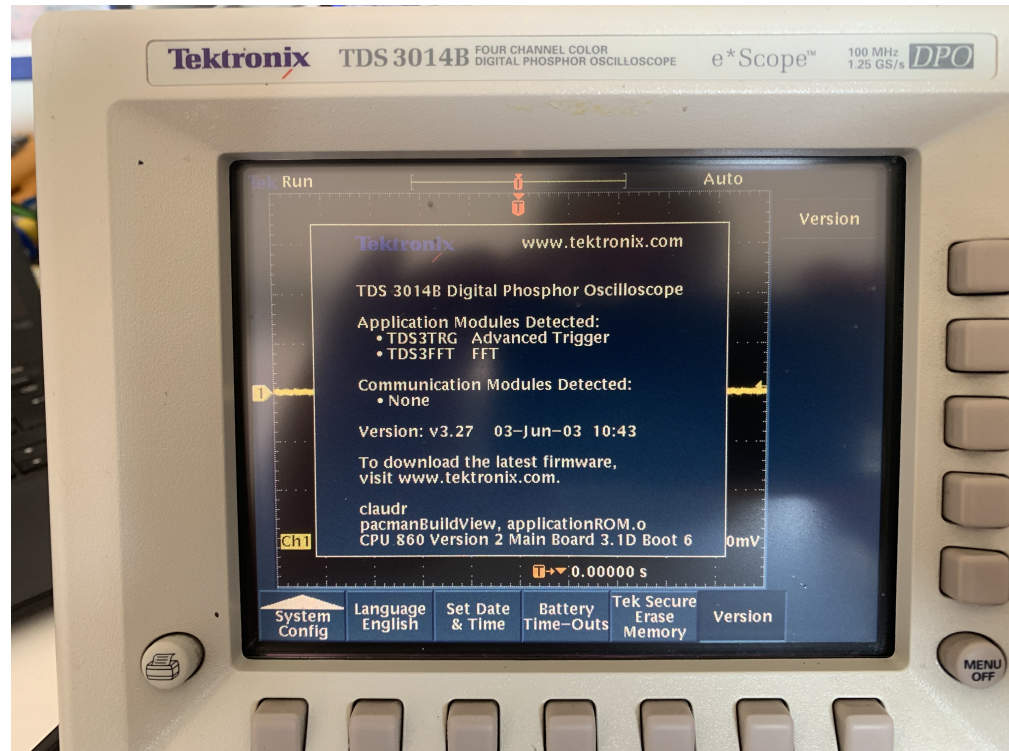

☐ **darkstar49**

Regular Contributor

🟨

Posts: 156

Re: Tek TDS3000 pacmanBuildView
« **Reply #10 on:** April 29, 2020, 01:25:45 pm »

Say Thanks   Reply   Quote

Just came across the same 'issue' (on a 3.27 FW version)
And just as others, I (somehow unintentionally) managed to get back to 'normal' 😕

Would be really interested, it was definitely a developer menu, and was persistent, as described. There were LCD testing menus, DAC settings (gain, offset,...), and a bunch of other interesting things... can't believe no one here knows how to enter this DEV mode 😵😵😵?

📎 IMG_7608.JPG (3563.35 kB, 4032x3024 - viewed 87 times.)

« Last Edit: April 29, 2020, 01:30:32 pm by darkstar49 »

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The following users thanked this post: Galen

☐ darkstar49

Regular Contributor

🟨

Posts: 156

👤 ✉ 💬

Re: Tek TDS3000 pacmanBuildView
« **Reply #11 on:** June 28, 2020, 02:53:41 pm »

Say Thanks   Reply   Quote

Anyone here knows how to extract the actual firmware file ?? (and/or would have one, version doesn't matter much).

I'm not too bad with PowerPC assembler, would really like to dig into this to find out how to activate that mode... but don't wanna spend hours trying to figure out how to extract/reconstruct the actual image from the 3-4 floppies (not even sure a still have a working floppy btw...)

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☐ MarkL

Supporter

🟨🟨🟨🟨

Posts: 1648
Country: 🇺🇸

👤 ✉ 💬

Re: Tek TDS3000 pacmanBuildView
« **Reply #12 on:** July 02, 2020, 04:06:24 pm »

Say Thanks   Reply   Quote

Quote from: darkstar49 on June 28, 2020, 02:53:41 pm

> Anyone here knows how to extract the actual firmware file ?? (and/or would have one, version doesn't matter much).
>
> I'm not too bad with PowerPC assembler, would really like to dig into this to find out how to activate that mode... but don't wanna spend hours trying to figure out how to extract/reconstruct the actual image from the 3-4 floppies (not even sure a still have a working floppy btw...)

User WigglerAway figured it out here:

https://www.eevblog.com/forum/projects/tektronix-tds3000-oscilloscope-modules-tds3uam/msg288787/#msg288787

but I don't see that the reconstructed version was posted anywhere. Should be simple enough to do it.

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