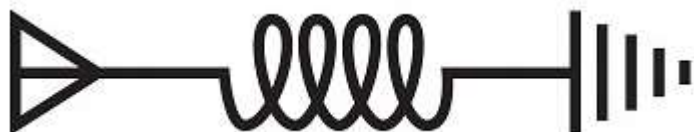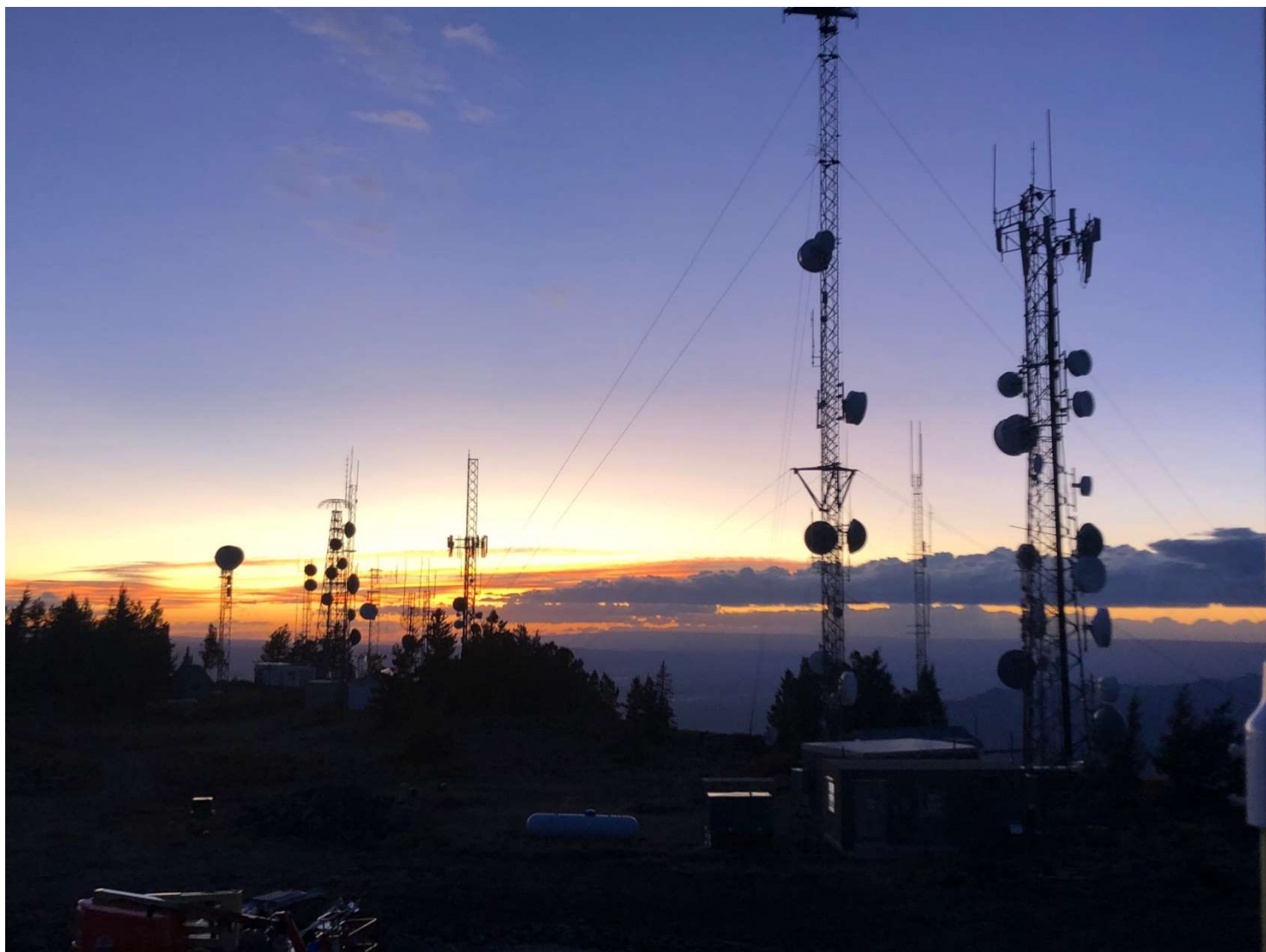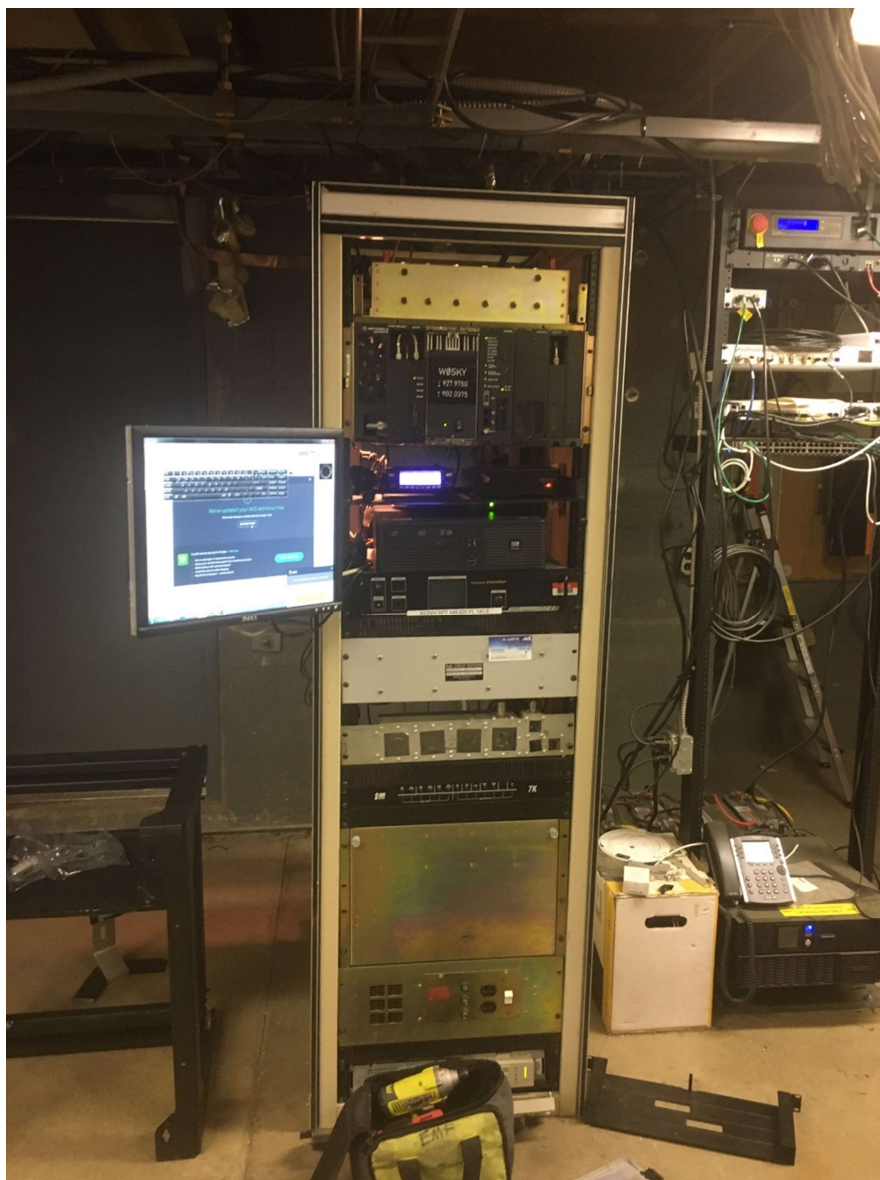# The KEØVH Hamshack

Sept/Oct 2019

Finally updated the Hamshack picture above! Features now include the Yaesu FT-991A which replaced the TS-2000! Also shown is the RTL-SDR utilizing the SDR Sharp software on the big monitor. The KDØSSP Wires-X node is on the computer screen on the left, the KEØVH 449.625 repeater Wires-X node screen is on the right, and other additions and re-arrangements. I really enjoy the utility and ease of operations in my shack. New updates too at www.ke0vh.com

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ABSOLUTELY GEORGEOUS SUNSET at the KBØYNA Grand Mesa repeater site east of Grand Junction (Skyler WØSKY photo)

Many many things going on with our now *N2SKY* DENVERSKYHUBLINK repeater group. More details on the group will be upcoming in future newsletters. The DENVERSKYHUBLINK is affiliated with the [Rocky Mountain Radio League club](#) and the [Denver Water Amateur Radio club](#). The RMRL is providing use of the 449.450 K1DUN repeater as our analog flagship and the KI0GO 449.750 DMR repeater on Timeslot 1 with Talkgroup 310847, and Denver Water is providing the SYSTEM FUSION system repeaters on 448.350 and 449.625. AND NOW we have now added a 900 Mhz repeater to the system. Skyler WØSKY put together a Quantar system on 927.950 (- offset) at our site on Lookout Mountain and it is up and linked into the DENVERSKYHUBLINK now. So right now we cover the modes analog, System Fusion, and DMR modes linked thru the ALLStar SKYHUB link system. For more details go to the

The Lookout Mountain Rack for 449.625 and NOW 927.9750
At the bottom of the rack is the old "backup now" 449.625 analog repeater standing by if needed

The Quantar repeater front panel in the top of the rack above
The computer in the rack is for Wires-X on 449.625 and monitoring the AllStar link for the 927.950 analog repeater.

The 900 Mhz repeater panel 150° antenna pointed just north of east over downtown Denver from the site
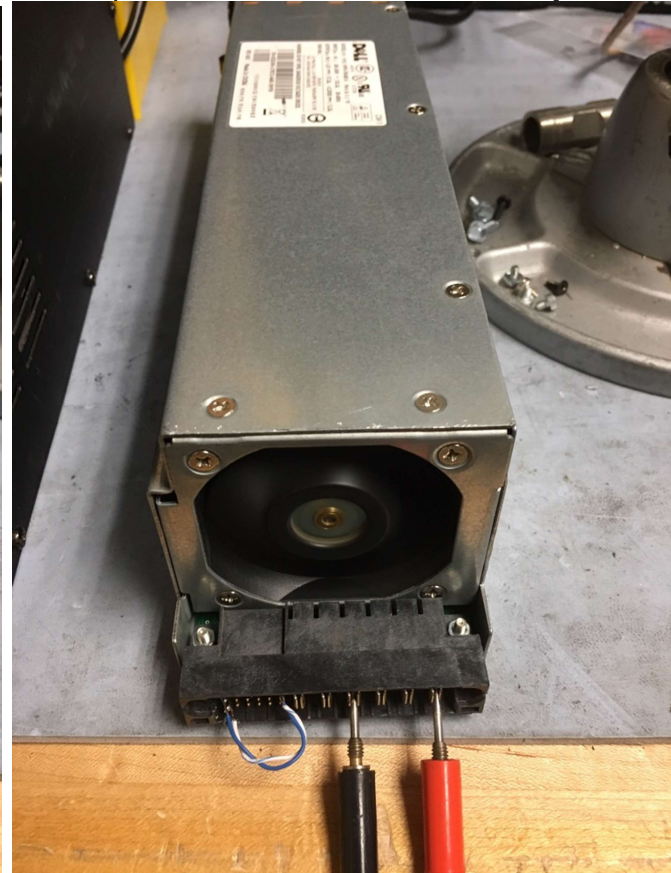
Another ham radio project was converting a couple of Dell server power supplies to be emergency or even main power supplies for radios that need higher amperage. These are very powerful as the specs below show.
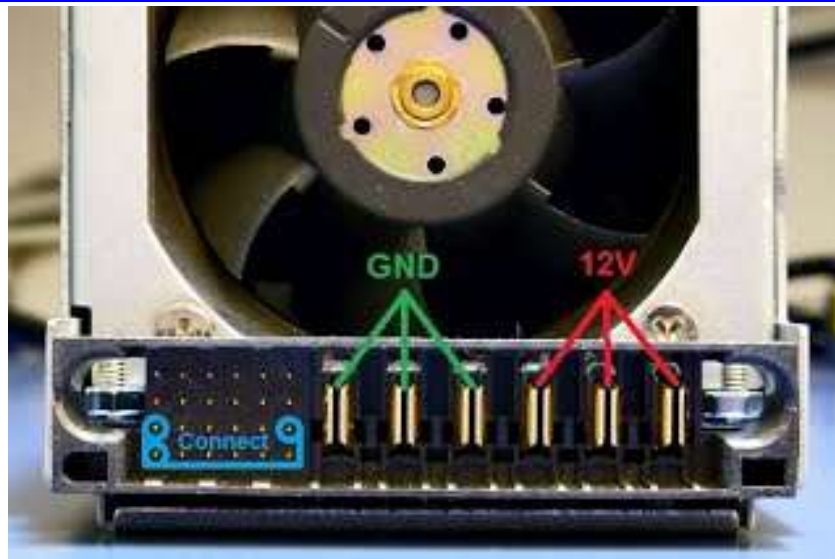

Look at the whopping 57 amps out.

The only real drawback to these is that the cooling fans in the back sound like a small jet fighter. Maybe not so good for a home shack but good for remote sites or placed somewhere that the noise might not matter. Here is a view before full modification. The PS's put out 12.2 volts as is before adjustment.

Starting voltage before adjustment and after. See the instructions in the website below:

http://www.tjinguytech.com/my-projects/server-ps

From the website, here are tap points and the connections needed to turn the power supply on.

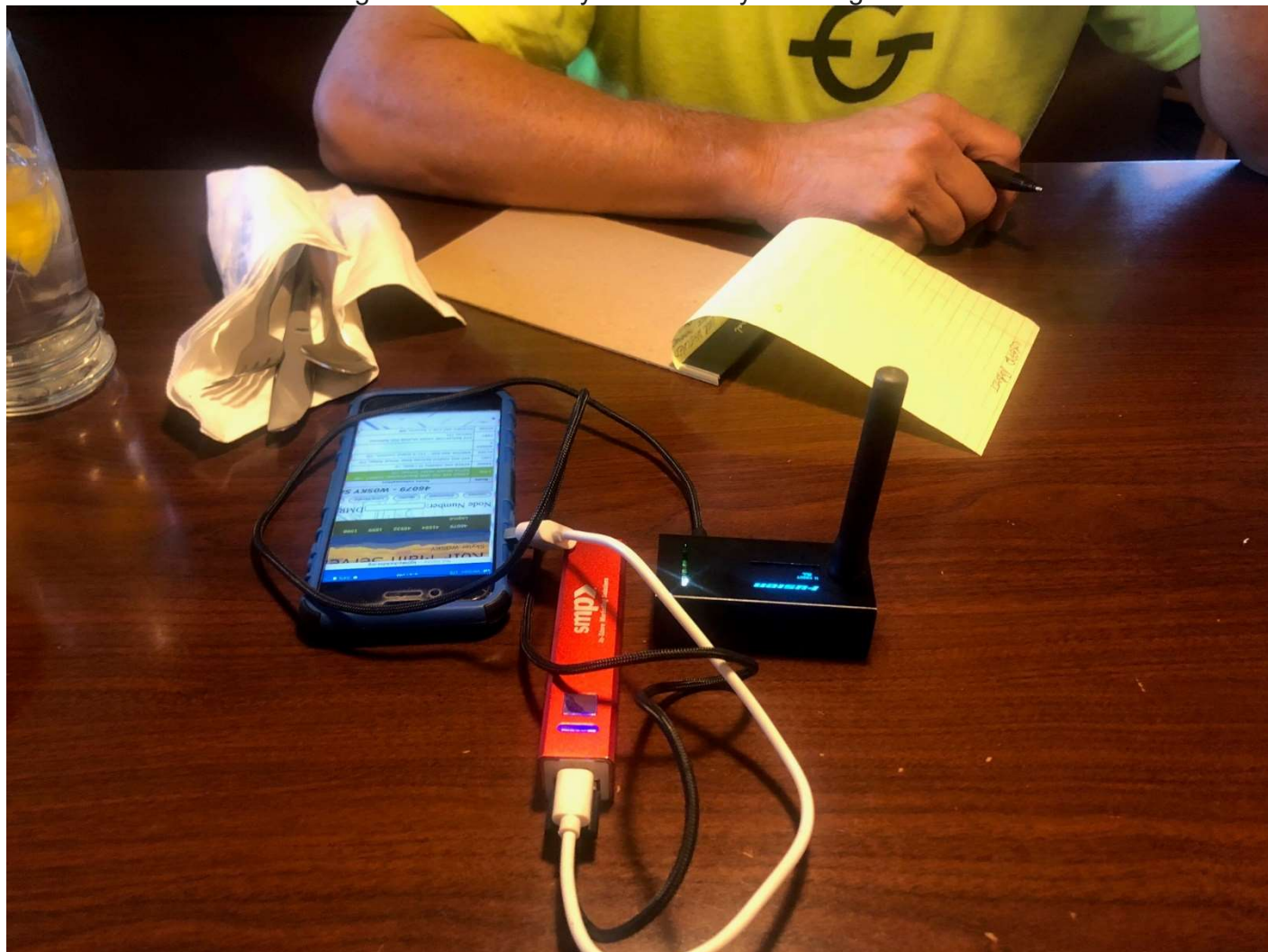I installed a small switch on the front panel to actually turn the supply on and off as needed.

Switch installed on the PS's

My soldering in of connections for Anderson Power Poles (which I have standardized all my ham gear to) is slightly ugly but works fine with a solid connection. The switch on and off wires to the front panel switches are routed thru the case to the front panels.

The Pi3 Hotspot mobile in the truck during an away mission. Able to utilize the cell phone hotspot for connection back to the "DENVERSKYHUBLINK".

It is really easy to get a hotspot running mobile to link back into the system. Using the Pi-Star free software on a Pi ZERO or 3 and an MMDVM radio board makes it easy to keep in touch with the system no matter where you are. So to that end, during an away mission to Aspen and then dinner in Glenwood Springs Colorado, I used my hotspot in a Village Inn Restaurant powered with a portable USB battery, and ran the SBE DENVERSKYHUBLINK Monday night NET from the restaurant booth. Using the cell phone hotspot for the link, the Yaesu FT-2DR radio and monitoring the system on my cellphone browser, running the NET remotely was as easy as doing it at home.
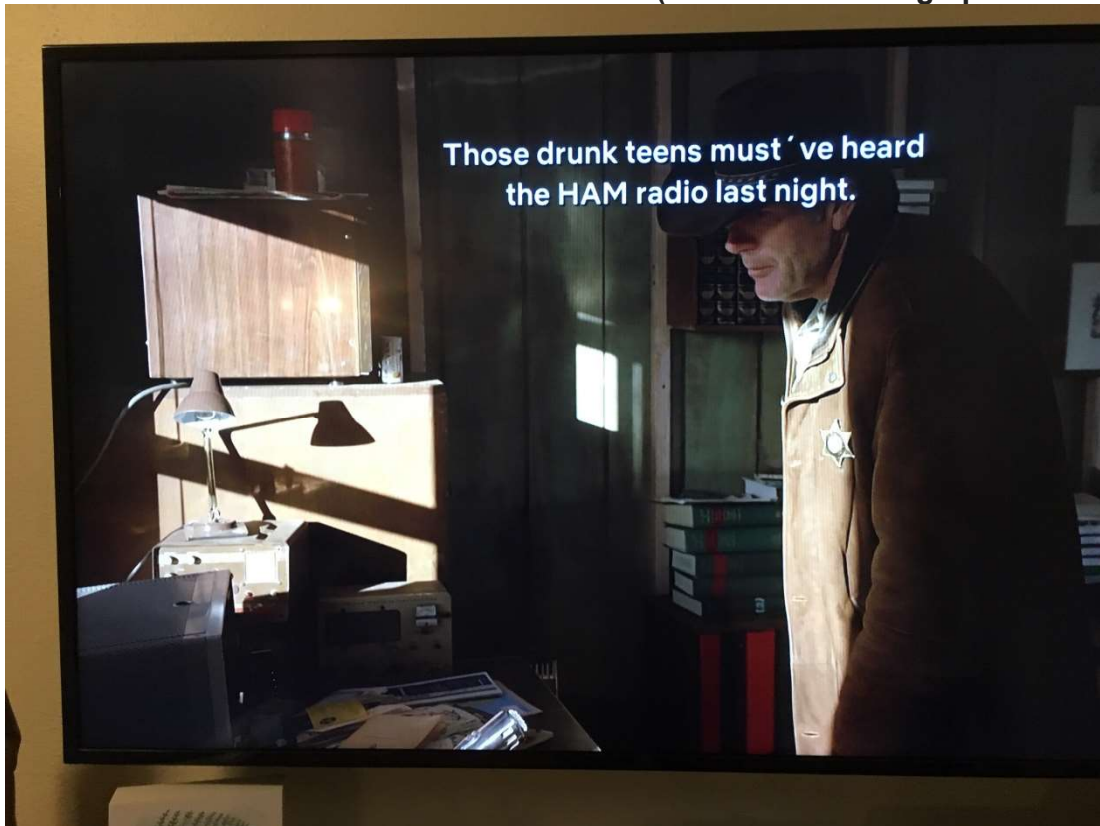

The equipment setup in the restaurant. You can see the SKYHUB AllMon display on the cell phone screen and the NETCONTROL below

While watching an episode of "Longmire" a series about a Wyoming Sherriff on NETFLIX, the story revolved around an amateur radio operator who ran a historic camp in the state. They featured many old radios as props, some of which I haven't seen before. This was a REALLY fun episode for any of us who love ham radio. Take a look:

The antenna's for the "shack" in this old cabin (the sheriff walking up to the site)

Those drunk teens must´ve heard the HAM radio last night.
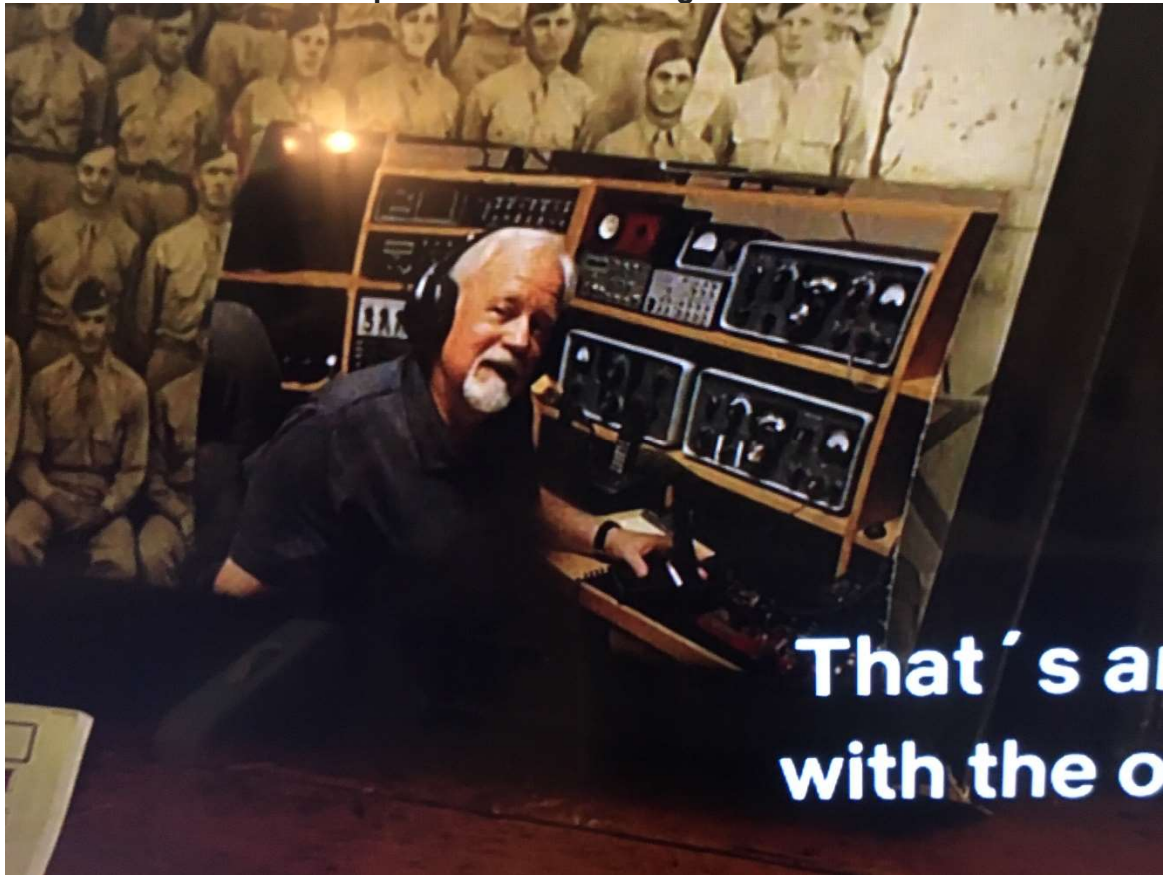
Or so the story line went……….

An impressive shack! A pair of Drake Twins, A Johnson Viking transmitter, Hammurland rigs and more, including a D-104 mic! Pretty cool! Wonder who owns all this gear!?!

A closeup of the Cobra CB radio with the D-104

And here is the operator of the above gear as seen on the show

That´s ai
with the o

COOL USE OF HAM RADIO on TV again! Wish I knew who this really is!

W0SKY SkyHub YSF Reflector ←→ Yaesu Wires-X Bridge
WIRES-X NODE 46361 Denver SkyHub Link
YSF Reflector NODE 38411 SkyHub Link
TX: 443. 350 (Data from YSF Reflector into WiresX)
RX: 448. 350 (Data from WiresX Repeater Into YSF Reflector)
MMDVMHost PiStar in "Remote Gateway" Mode
TX Power: 2.0 Watts. Mode: YSF Narrow

MOTOROLA   MCS 2000   FLASHport

Opt   Home

Zone

Z1 448.350 YSF

Page

Q   H/L   Phon   Scan   Call   Menu   Sel

Testing the MCS-2000 Motorola radio to be used for the YSF link on the SkyHub system,

In the above picture you can see the Raspberry Pi3 on top of the radio that connects the System Fusion repeaters to the YSF Reflector 927222 US SkyhubLink Denver that links via the Brandmiester DMR link to the DENVERSKYHUBLINK. I now run this radio link from my house along with the AllStar Remote base link to 449.450. The MCS-2000's are another Motorola radio capable of passing all the data and digital voice over the air to the System Fusion repeaters, completing the connection to 448.350 and 449.625.

46079 - W0SKY SkySystem Hub Denver, Co

Node	Node Information	Received	Link	Direction	Connected	Mode
40195	W0SKY 927.975 Golden, CO, USA	001:05:43	ESTABLISHED	OUT	03:59:01	Transceive
1708	KI0GO 449.750 DMR Brandmeister 310847, YSF 92722,WiresX 46361 Denver, CO	002:43:29	ESTABLISHED	OUT	60:26:22	Transceive
1001	449.450 KE0VH Remote Base Wheat Ridge, CO	002:43:33	ESTABLISHED	IN	05:42:46	Transceive
45499	KC5ORO 442.125 + Socorro, NM	018:14:59	ESTABLISHED	OUT	19:31:08	Transceive
1997	P25 REFLECTOR 10294 SkyHub P25 Reflector Denver, CO	Never	ESTABLISHED	OUT	60:26:14	Transceive
41304	KB0YNA 449.650 - 151.4 Grand Junction, CO	Never	ESTABLISHED	OUT	02:49:43	Transceive
45844	N6JER 442.950 Rocklin CA	Never	ESTABLISHED	IN	60:27:36	Transceive

Click this chart to go directly to the AllMon SkyHub page

Click here to go directly to the DENVERSKYHUBLINK Project webpage

Remembering Summer! A Monday Night NET out on the patio!

Monitoring the SkyHub AllMon, the Yaesu FT-2DR and TFT MD-30 DMR radio's

BY THE WAY! Thanks to my Galvanized Endeavors crew, Paul, Noah, Cleo and Wyatt for their expert help and brawn moving some heavy gear from a site last month. You guys are AWESOME! (used by permission)

Birdie perch! Watch out for RF!
The Hamshack Archive Links

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201701Jan.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201702Feb.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201703Mar.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201704April.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201705May.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201706June.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201707July.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201708Aug.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201709Sep.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201710Oct.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201711Nov.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201712Dec.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201801Jan.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201802Feb.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201803Mar.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201804April.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201805May.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201806June.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201807July.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack20180809AugSept.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201810Oct.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201811Nov.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201812Dec.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201901Jan.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201902Feb.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201903Mar.pdf

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http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201906June.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201907July.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201908Aug.pdf

4 Years AGO: http://www.smpte-sbe48.org/wp/2015/08/
5 Years AGO: http://www.smpte-sbe48.org/wp/2014/08/
6 Years AGO: http://www.smpte-sbe48.org/wp/2013/08/

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SBE VHF/UHF Chapter 73' of the Air DENVERSKYHUBLINK HAMnet

The SBE Chapter 73 of the air DENVERSKYHUMLINK Hamnet is every Monday at 9 p.m. ET (6 p.m. PT) worldwide via Echolink KG0SKY-L, node 985839 (available via computer and radio), Allstar node 46079, DMR Talkgroup 310847, AND try it with your hotspot on YSFtoDMR then TalkGroup 310847. The SBE UHF/VHF Hamnet is based in Denver on 449.450, pl 103.5, KDØSSP-RPT 448.350, Fusion/Wires-X and the 449.625 Fusion repeater, linked to WiresX room "DenverSkyhubLink" node 46361

You can listen on the LIVE STREAM thru Broadcastify at:

https://www.broadcastify.com/listen/feed/25448/web

or https://hose.brandmeister.network/group/310847/

We hope you'll join us.

See the latest edition of "The KE0VH Hamshack" for more information at www.ke0vh.com.

The Society of Broadcast Engineers

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