

# SHORTWAVE BULLETIN

Issue no. 1653 Oct 26, 2008.

Deadline e-mail next issue: 0900 SNT, Nov 9, 2008.

Tyvärr är det väldigt få bidrag till detta nummer.  
Inga QSL, inga kommentarer. Länge sedan det var så illa.

För att åtminstone fyll ut första sidan, så hittade jag lite info om den kommande KWZ 50.

Undras hur det skall gå för en vanlig mottagare när Perseus och dess gelikar verkar ha tagit över helt.

Jag hoppas alla kollar in Guy Atkins fina blog om Perseus <http://perseus-sdr.blogspot.com/>  
Här hittar du hur mycket fin info som helst. Bl a en jämförelse mellan Perseus och WiRadio G313 med flera fina inspelningar som visar skillnaden i audio mellan dessa populära mottagare.

Har själv mest kollat signalerna på MV, där bl a Japan hörts på eftermiddagen här nere. Sparsamt med signaler från Sydamerika, men NA verkar gå ganska bra nattetid, men vem orkar sitta uppe då?

Keep on ....

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## SWB-info

SWB online på HCDX: <http://www.hard-core-dx.com/swb>

Dateline Bogotá: <http://www.hard-core-dx.com/swb/Dateline.htm>

SWB hot stuff: <http://hem.ektv.nu/~ekt035221/password.htm> (länk till senaste SWB).

SWB member information: <http://www.hard-core-dx.com/swb/member.htm>

Jubileumstidskriften: <http://www.hard-core-dx.com/swb> (html- + pdf-version).

## QSL, kommentarer, mm.

### The DSP Receiver KWZ 50

10 years ago Kneisner + Doering has brought out the KWZ-30. It was the first DSP-receiver for amateurs worldwide.

Already at that time it was planned to build an improved successor. This was not possible in a short time.

What can be improved in a device that can do everything?

The main RF properties like intercept values, dynamic range and sensitivity can hardly be improved substantially. Also the filters for the narrow band selection can't be improved.

What is remaining? At first it is the comfortable control which

can be improved. The controls of the KWZ-30 were designed very thrifty and the use was therefore partly complicated. On the other side there are now new components available which allow a different topology of the receiver with a higher performance. The technical equipment can be improved substantially. With this new performance level the receiver can also be used by professional users.

### Overview

The DSP-Receiver KWZ-50 is like its predecessor a receiver for the frequency range 10 kHz to 52 MHz using digital signal processing.

It was predicted for a long time that the analog/digital converter moves closer to the antenna.

This is the case too in the KWZ-50. The first intermediate frequency is 75 MHz as before.

From there the signal is converted to 30 kHz using quadrature mixers. This second intermediate frequency is fed to the A/D-converters. Then follows the DSP-unit, which is equipped with a high performance DSP (32 bits).

### The Controls

The controls of the KWZ-50 are much more comfortable than the controls of the predecessor, which intentionally were designed thrifty. The display is a color display (quarter VGA) with a resolution of 320 x 240 pixels. On either side of the display are 4 programmable keys. So the current function of the key can be shown on the display. Besides the main encoder for the frequency tuning there are three more encoders with smaller resolution. One is dedicated for the volume control while the other two can be programmed for other functions. Of course there too is a key pad with the numerical block and other keys for the menu control and also for dedicated functions.

### The Circuitry

The analog part of the set is a double conversion superhet with the first IF of 75 MHz and the second IF of 30 kHz. In front of the first mixer the signal is passed through a low pass filter, a switchable high pass filter and an amplifier/attenuator stage.

The conversion from the first IF to the second IF is performed using quadrature mixers which secure a high mirror frequency attenuation. The mixers are followed by two A/D-converters with a dynamic range of 120 dB. From the A/D-converters the signal is passed to the DSP. It is



a 32-bit DSP from Analog Devices. So there is an almost unlimited dynamic range available for the signal processing. In the DSP the selection and demodulation of the signal is performed as well as the other functions like notch filter, noise reduction, squelch and others.

DRM: The intended hardware-solution could not be realized because there is no such module on the market. The DRM reception is possible with an external demodulator. The KWZ-50 has an if-output with the center frequency of 12 KHz (line-out).

We have decided to use a conventional power supply with a transformer, rectifier and capacitor filter, The voltage is 13.6 Vdc. From this voltage all needed voltages are generated using switching voltage converters. So the set can also be run with 12 to 15 Vdc.

Basic Price KWZ 50: approx. 4.300 Euro incl tax.

(Info from [http://www.kd-elektronik.com/kwz50\\_e/kwz50e\\_01.html](http://www.kd-elektronik.com/kwz50_e/kwz50e_01.html) )

## LOGGEN - ALL TIMES ARE UTC

3173.32			<b>Radio Municipal</b> , Panao presumed the OA at 0015 Oct 14 [Wilkner]
3173.64			<b>Radio Municipal</b> , Panao seemingly back with usual weak signal into Florida. Noted all week "except today" :-( at 0900 to 1000. Oct 18 2008 [Wilkner]
3173.80t.			<b>Radio Municipal</b> , Panao possibly the one noted 0730 seems early, 0830 recheck 13 Oct [Wilkner]
3173.80x			<b>Radio Municipal</b> , Panao seems silent last 24 hours. 20 October [Wilkner]
3250.00			<b>Radio Luz y Vida</b> , San Luis *1100, 20 October, with Christian music; 2319 on 19 October [Wilkner]
3280	18.10	1555	<b>OID</b> som avslutade med marsch mx, för svag för att vara Kina men vad ? 1 LRH
3325	25.10	1435	<b>RRI Palangkaraya</b> med ganska hygglig styrka. TN
3329.53			<b>Ondas del Huallaga</b> , Huánuco 1050 with music and om, tnx Valko tip 23 October [Wilkner]
3344,97	25.10	-1503	<b>RRI Ternate (tent)</b> . Uppfattade tyvärr inte riktigt stationsanropet här men cd med sedvanligt "Inilah Radio Republik Indonesia ..." och "Love Ambon". 1-2. Fin godnattmusik sista kvarten före cd. TN
3390.11			<b>Emisoras Camargo</b> , Camargo 2350 to 0000 with English UTE on top. 21 October [Wilkner]
3976,06	25.10	1430	<b>RRI Pontianak</b> starkast av inoneserna på 75 mb. 3 TN
3987,03	25.10	1430	<b>RRI Manokwari</b> igenom vid sidan av Korea. 1-2 TN
3995,04	5.10	1510	<b>RRI Kendari</b> med fin mx, 2-3. TN
4051.87			strong carrier 2310 GTM transmitter?? 21 October [Wilkner]
4409.74			<b>Radio Eco</b> , Reyes 2300 beautiful exotic music, good signal 21 October [Wilkner]
4451.17			<b>Radio Santa Ana</b> , Santa Ana de Yacuma 2300 - 2330 confusing mention of "Radio Fides" then Radio Santa Ana ID, "...solamente den el departamento de ? ...y cinco minutos en Radio Santa Ana ....Radio .....en el oriente...." 21 October [Wilkner]
4750	17.10	1848	<b>BVB via Dunamis</b> med religiös körsånger och många Halleluja vilket är ett hebreiskt jubelrop och betyder Lovsjung Gud, vilket man också gjorde. Kvällens sändning avslutades med några minuters tal och cl.down 1903 2 LRH
4790,04	25.10	1435	<b>RRI Fak Fak</b> med vacker mx. 2-3. Den 12/10 med cd 1453 och mycket tydligt och fint ID "Inilah Radio Republi Indonesia, Fak Fak" TN
4790,04	26.10	0615	<b>Tent R Vision Chiclayo</b> med god styrka så här sent. TN
4796.47			<b>Radio Mallku</b> , Uyuni, 1015-1020, CP music and comments de banda de 60 metros 12 Oct [KM-Cedar Key/Wilkner]
4799.7			<b>Radio Buenas Nuevas</b> , San Sebastián, Huehuetenango -- 2010XA river location-- with strong signal with Mexico seemingly silent. 1200 to 1230 Oct 18 2008 [Wilkner]
4800			<b>XERTA</b> , Radio Trans. 0440 to 0450 "discussion of Radio Buenas Nuevas" and Radio Cultural, Guatemala. interference discussions? Radio Cultural Coatan has been off. 12 Oct [Wilkner]
4990.83			<b>Radio Manantial</b> , Huancayo on tonight from 0000 to 0015 Oct 14 [Wilkner]
6104.8			<b>Candela FM</b> , Mérida/ Radio Mérida 2315 with distorted signal 19 October, Per Charles Bolland tip 1100 to 2010 on 18 October, highly distorted with Mexican music, om and yl, as carrier 16 and 17 October. Originally first logged by Bolland several months ago. [Wilkner]
6104.8			<b>Candela FM</b> , Mérida, 1650 strong but distorted. 21 October [Wilkner]
6104.87v			<b>Mérida, "FM de Mérida"</b> per Bolland logs distorted signal 1100 also noted when moved to -- river location using the 2010XA--. Very strong; major distortion. 1210 to 1225 no understandable IDs Oct 18 2008 [Wilkner]
6140	12.10	1213	Blue Star Radio via Tyskland med hälsning till Björn Fransson på Gotland. 4 CB

6155.22                    **Radio Fides** La Paz 0930 to 0950, ID as Radio Fides by locutor. Tnx Bolland tip! 23 October; 1000 to 1020 ments de Bolivia 21 October [Wilkner]  
 6170                    18.10    1400    **R New Zealand** med ID och nx 3 LRH  
 6173.8                    **Radio Tawantinsuyo**, Cusco 0640 -0645 music, out in the open with no co channel for once 21 October [Wilkner]  
 15345                    15.10    1905    **RAE** åter på kortvåg! Nu med italienska. 3 CB

**The 60 meter band Bolivians fade out between 1030 to 1045**

4699.42 **Radio San Miguel**, Riberalta \*1000 into mx " seis y cuatro minutos.." 20 October [Wilkner]  
 4716.62 **Radio Yura**, Yura 20 October [Wilkner]  
 4781.47 **Radio Tacana**, weak audio.1010 to 1030, 20 October [Wilkner]  
 4796.47 **Radio Mallku**, Uyuni 1010 to 1030 20 October [Wilkner]  
 4732.xx **Radio Universitaria**, Cobija, Pando Universitaria off with the RYRYRYRY rty present most of the time. :-( 20 October [Wilkner]

**Musica-----Bolivia-----**

Joan Baez Feat Mimi Farina - Viva mi patria Bolivia [http://www.youtube.com/watch?v=8tGZ\\_UUELk](http://www.youtube.com/watch?v=8tGZ_UUELk)  
 Cueca Viva mi patria Bolivia <http://www.youtube.com/watch?v=NnCbp72etQ&feature=related>  
 Æ "P A L O M I T A.. C H ' U S A Q, K I T A Q" (Cueca Quechua)  
<http://www.youtube.com/watch?v=y10Z8Vp7g8E&feature=related>

**Cinema -----Peru-----Brasil-----**

Trailer de Madeinusa (Movie Trailer) [http://www.youtube.com/watch?v=ECMTqYw\\_6IY](http://www.youtube.com/watch?v=ECMTqYw_6IY)  
 Central Station (Movie Trailer) <http://www.youtube.com/watch?v=ako8metwIAY>

*Those following hurricanes may wish to use the follow frequencies: <http://www.hurricanefrequencies.com/>*

4045U                    Salt Rock, Bahamas 1055 advisement of weather conditions 13 Oct [Wilkner]  
 4045U                    Lakeland Florida, 1045 WCY with weather report for Bahamas 13 Oct [Wilkner]  
 14300 U                    St. Croix AROs VI with reports of storm damage 1525 "This morning there is a lot of debris, no power and a curfew on the island, but it appears St. Croix escaped the worst of the storm when Hurricane Omar's "eye" jogged a little further East than projected. It was a category 3 storm when it passed, so that is indeed a very good thing! " [Wilkner]

## Stationsnyheter

**INDONESIA. 3578.74 unID** 1313-1350+ Oct 6. Talk, mostly by YL to 1334, then ten minutes of what sounded like island music. Weak and getting weaker, with more snippets of music after 1345. (Wilkins-CO via DXLD)

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 Never any luck here so far with 3579v, tho I look for it when 60m Indos are in (gh, OK, DXLD)

**3344.96, RRI Ternate** 1330-1401 Oct 10. Vocal, music, YL in Bahasa Indonesia, I think, indicating Ternate rather than R. Northern [PNG]. Poor at tune-in; very poor at ToH. (Wilkins-CO via DXLD)

**4749.96, RRI Makassar** 1307-1400+ Oct 12. Pop music; YL & OM (mostly YL) with long yaks between music segments; frequent mentions of Makassar; program continued past ToH. Good at tune-in; still fair at 1400 (John Wilkins, Wheat Ridge, Colorado. Drake R8, 100 foot RW, Cumbredx mailing list via DXLD)

**INDONESIA** [and non]. **4920, RRI Biak** (presumed), 1236, 10/12/08. Muffled audio of OM in extended talk mixing with Hindi music underneath. Presumed AIR Chennai. Overall jumble poor to fair (Jerry Strawman, Des Moines, IA, Drake R8, Alpha Delta SWL Sloper, dxldyg via DX LISTENING DIGEST)

**4920**, Oct 12 at 1302 with warta berita, still going at 1307 and not // 4790. So must be **RRI Biak**; aside it a weaker carrier which could be Jambi. BTW, I remember hearing Biak when it was still under Dutch control; Netherlands New Guinea was in a disputed transitional period 1959-1969, finally becoming fully part of Indonesia (Glenn Hauser, OK, DX LISTENING DIGEST)

**4925, RRI-Jambi (presumed)**, 1426-1450, Oct 9, in BI, DJ playing pop subcontinent music and songs, with on-air calls ("Hello, hello"), QRM from some type of data transmission, poor, but the best reception so far this DX season. Thanks again to Tony Ashar for providing the solid ID for this station (Ron Howard, Asilomar Beach, CA, Etn E1, dxldyg via DX LISTENING DIGEST)

**VANUATU 7260** tune in around 0630 ut Oct 16, time check suspected at 0635, weak with pidgin sounding talk and south seas style music and songs. Signal building rapidly now, no interference, 0647 mention of Radio Vanuatu. 0655 with a local ad or announcement, continued thru 0700 with songs. Sunset there now but signal seemed worse past 0700. (Don Moman, Lamont, Alberta ICOM 7800 and 5 el 40m yagi via DXLD)

## Övriga radionyheter

**Decades on the Trail of a Shadowy Agency** By SCOTT SHANE, October 11, 2008

WASHINGTON — For 30 years, on a sometimes lonely hunt, James Bamford has pursued that great white whale of American intelligence, the National Security Agency. It has been a jarring ride at times.

He was threatened with prosecution in 1982 for revealing the secrets of that mammoth eavesdropping agency in his pathbreaking first book, “The Puzzle Palace.”

By 2001, when he published a fat second volume on the subject, “Body of Secrets,” attitudes had changed and officials actually hosted a book party on the agency’s sprawling campus at Fort Meade, Md. Code breakers and linguists stood in line for four hours to have him sign the book — though many declined to give him their names for the inscription.

[http://www.nytimes.com/2008/10/11/books/11bamford.html?\\_r=1&ref=books&oref=slogin](http://www.nytimes.com/2008/10/11/books/11bamford.html?_r=1&ref=books&oref=slogin)

James Bamford interesting set of books written on codes, HF radio espionage... Controversial author.  
[Wilkner]

### **VLF station SAQ on the air 24th December**

**A date for your diary:** SAQ is next planned to be on air on Wednesday 24th December 2008 at 08.00 UTC and 08.15 UTC. The frequency is 17.2 kHz CW. Running up an tuning of the transmitter begins about 07.30 UTC.

Correct reception reports will be acknowledged with a QSL card.

SAQ Website [http://www.alexander.n.se/startside\\_e.htm](http://www.alexander.n.se/startside_e.htm)

Alexanderson alternator [http://en.wikipedia.org/wiki/Alexanderson\\_alternator](http://en.wikipedia.org/wiki/Alexanderson_alternator)

(Mike Terry via HCDX)