

# Open Source Video Workshop

Your Own Private Pirate TV Station  
Making P2P Television  
With iMediengruppe Bitnik (.ch)

Thursday, November 20 2008, 10:00 - 13:00h  
Constantzvw @ Pianofabriek Forstraat 35, Brussels  
www.constantzvw.org - www.bitnik.org

## Your Own Private Pirate TV Station

You own it, it's yours to experiment with, to share and to decide about what to broadcast

It's private in the sense that you are working with legal and low-range components. This means you are broadcasting in your immediate neighborhood

But it's nevertheless illegal under most jurisdictions to produce UHF airwaves, so carefully choose time, location and environment before broadcasting. Check out the legislation of the area you are conducting experiments in

The components described in this set-up purposefully use easy-to-find standard legal components in order to keep risks of prosecution at a minimal.

It's an easy to build low-range TV transmitting equipment for the transmission of video and audio through UHF (Ultra High Frequency) air waves

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## Why Make Your Own Private Pirate TV Station?

Freedom is fostered when the means of communication are dispersed, decentralized, and easily available, as are printing presses or microcomputers. Central control is more likely when the means of communication are concentrated, monopolized, and scarce, as are great networks [...] The onus is on us to determine whether free societies in the twenty-first century will conduct electronic communication under the conditions of freedom established for the demand of print through centuries of struggle, or whether that great achievement will be come lost in a confusion about new technologies.»

Technologies of Freedom, Inhel de Sola Pool, Harvard University Press, Cambridge, 1984

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## A Brief, Exemplary and Very Incomplete History of TV Hacking

- 1967 Manifesto «New Forms of Struggle against Politics and Art» by Situationist International
- 1968 «Steal This Book» by Abbie Hoffman
- 1971 «Guerilla Television?» by Michael Shernberg
- 1982 «Rabotnik TV», Amsterdam, The Netherlands
- 1986 «Captain Midnight on HBO», New York, USA
- 1987 «The Max Headroom Incident», Chicago, USA
- 1988 «Pravkoce Televideute» (Pirate Television, 1988-92) in Petersburg, Russia
- 1988 First «Van Gogh TV» Event in West Germany
- 1990 «Kanal X», Leipzig, East Germany
- 2002 «The Telestreets Movement» starts with «OrfeoTV», Bologna, Italy
- 2006 - 2013 Digital Television Transition: Switching from analogue to digital broadcasting

## How to Build a Private Pirate TV Station Setup with two Signal Amplifiers

- Step 1: Connect TV/CR-OUT-connector of your HF Modulator to the IN-connector of your first signal amplifier with (short) coaxial cable (male F-connectors on both sides)
- Step 2: Connect the OUT-connector of your first signal amplifier to the IN-connector of your second signal amplifier with (short) coaxial cable (male F connector both sides)
- Step 3: Connect the OUT of your second signal amplifier to your antenna. Your Antenna will normally have an N-connector - you can use a coaxial with F-male on either side and convert the F-male to BNC-plug and from the BNC-plug to N-plug.
- Step 4: Connect an input to your HF Modulator with Cinch-Cable. The input can be a computer, a DVD-player, video recorder, video mixer, etc.

## How to Build a Private Pirate TV Station What you will need (part 1)

HF modulator to convert video signal to Antenna signal. Buy these in local TV parts shops or strip from a video recorder (every VHS with a antenna-out has one inside). The HF modulator decides which channel / Frequency you will broadcast on. There are various models you can buy and they differ in broadcasting range, but most offer a range from 175-862 MHz // Channels 5-69. The modulator's you strip from VHS recorders broadcast on channels 3 and 4. Approximate costs: € 40,- - € 60,-, manufacturer: Axing, HAMA

Signal Amplifier(s) / Signal Booster(s): 20dB / 25dB / 30dB, Range: 82-862 MHz. There can be more than one amplifier to boost your signal (connection series). Approximate costs: € 70,-, manufacturer: Axing



## How to Build a Private Pirate TV Station What you will need (part 2)

Coaxial cables with various plugs: Coaxial with F-male connectors on either end to connect Amplifier(s) and Modulator; coaxial with N-plug to connect Antenna; Optional: Coax with antenna plug to connect TV directly to HF-modulator for testing.

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# AbraKaDabla #08

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