About Hudson Valley Digital Network (HVDN)

- HVDN founded 2017
- Digital meets physical world
- Deliberate modern & future focus
- Club call sign N2HVD
- Uphold FCC Part 97.1
- 3 pillar approach

Subpart A—General Provisions

§97.1 Basis and purpose.

The rules and regulations in this part are designed to provide an amateur radio service having a fundamental purpose as expressed in the following principles:

(a) Recognition and enhancement of the value of the amateur service to the public as a voluntary noncommercial communication service, particularly with respect to providing emergency communications.
(b) Continuation and extension of the amateur's proven ability to contribute to the advancement of the radio art.
(c) Encouragement and improvement of the amateur service through rules which provide for advancing skills in both the communication and technical phases of the art.
(d) Expansion of the existing reservoir within the amateur radio service of trained operators, technicians, and electronics experts.
(e) Continuation and extension of the amateur's unique ability to enhance international goodwill.
Amateur radio lacks the diversity it *may* have once had. The goal of the HASviolet project is to inspire more use of spectrum, interesting applications and to attract new people into amateur radio through “convergence”.

Convergence: What we aspire for....
Convergence: Who & what we really are……
Convergence: What we REALLY need......
Amateur radio has many people with wide life experiences and stories to share.

The biggest value amateur radio offers is access to wireless spectrum.

How can we make that appeal to other people?

How can we both learn and share knowledge?

How can we not let 130 years of amateur radio history get in the way?

How can we focus on the future and not get bogged down by the past?
Convergence: What we REALLY need......

Maker community engagement

Technology appeal  IoT & embedded  Maker  Every day life hacks

Jeri Ellsworth AI6TK  Sophi Kravitz, KD2HGW  Ed Nisley, KE4ZNU
Convergence: What we REALLY need......

Spatial awareness and location focus

Way finding

Robotics

Hiking & SOTA
Convergence: What we REALLY need......

Community engagement and decentralized communications

STEM Projects
Engage while at events
Community mesh related social unrest communications

NYC MESH
Journey

Thinking

How can we simplify a wide set of “converged” interests into one project?

Can our project help change the way amateur radio is thought about?

Can we keep it simple, technical, beneficial and challenging at the same time?
HASviolet

(H) Hardware
(A) Antenna
(S) Software

Minimum or no soldering required
Repurposed for or from other projects
Inexpensive
Easy to purchase

Low cost
Easy to build
Repurpose knowledge
Inspire experimentation

Easy to understand
Use for other projects
Repurpose knowledge
Inspire experimentation

Continuous development
Hardware agnostic
Clear instructions
Easy to install

Built in help
Inspiration for more learning

Convergence between radio and computer people
HASviolet

Violet? = 911.250 MHz

Licensed & unlicensed spectrum

CSS #911250
RGB 145,18,80

911.250 MHz
Journey

Rally Point

We needed to find a technology with a wide appeal and application inspiration

How can the student be the teacher?

Will our idea help fund HVDN or just better the wider world?
Solution Found: What is LoRa?

- Sensors, Data, Actuators, Tags, Telemetry & more...
- Cellular 3G/4G/5G
- Mission critical data applications
- Wi-Fi & Bluetooth
- Video/Voice + Consumer IoT +
- AREDN
- Amateur
- VHF/UHF
- General Purpose
- Narrow
- LoRa
- Short
- Amateur HF Voice & Digital Modes
- Long
- Niche
- Amateur EME
Where can I find more about HASviolet?

hvdn.org/violet

Want E-Mail Updates?  

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QUICK ACCESS TO ARTICLES ABOUT:

HARDWARE

ANTENNA

SOFTWARE
Getting Started for $100 (USD)

**Hardware**

- Antenna

**Antenna**

+ sensors

**Software**

hvdn.org/violet

Or other options...

https://hvdn.org/donate