

# Multifunctional software BlueDV for Windows and BlueDV Android

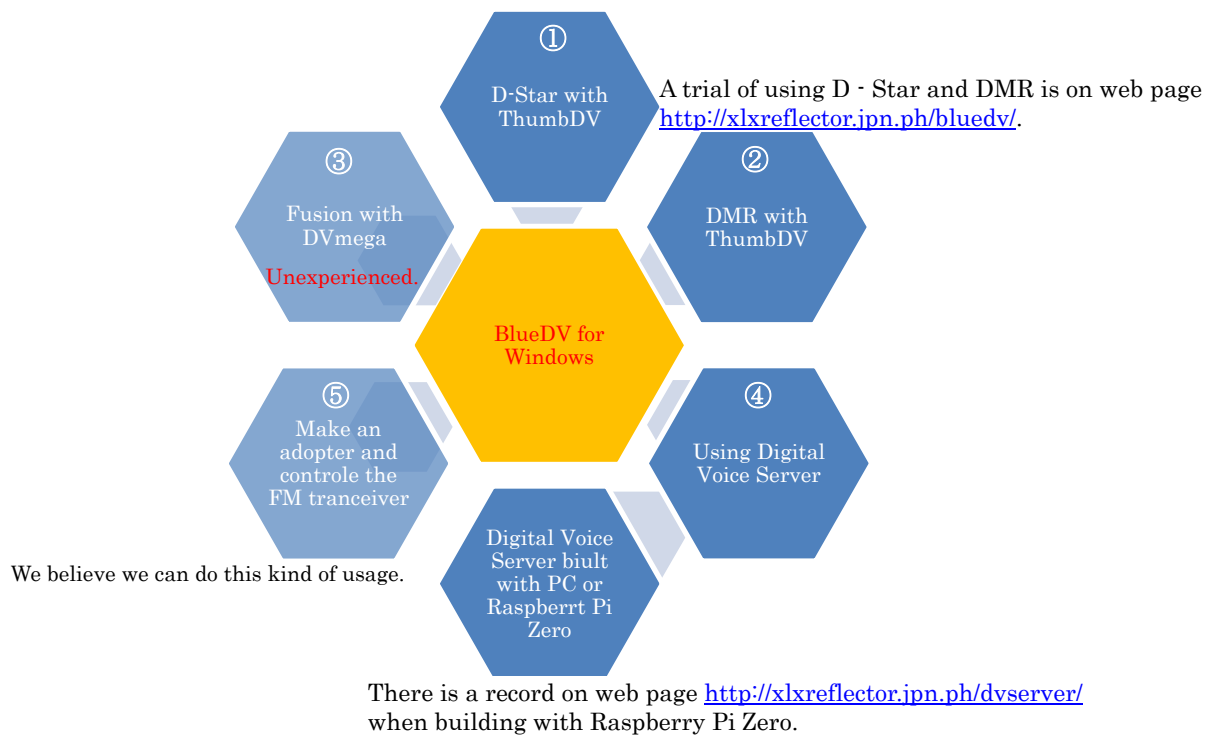
Shu JA3GQJ/JL3ZII

We are ham radio operators of amateur who are not related to the computer world such as programming language, but it is a group that loves digital voice communication such as D-Star. “BlueDV for Windows” and “BlueDV Android” are software developed by PA7LIM David in the Netherlands. And we especially think that “BlueDV for Windows” is multifunctional software. We have started using these software but have not understood everything yet. However we are convinced that those are very easy to use and versatile. With the experience that we are using, we are able to make beginners understand as much as possible. We recommend to use it for many **people**. In addition, ThumbDV and DVmega which are hardware are recommended to use for this software. We are confident that from beginners to experienced users can enjoy many digital voice communications in various ways, including D - Star with a combination of these software and hardware. Below is a summary of what we are trying to experience and we experienced.

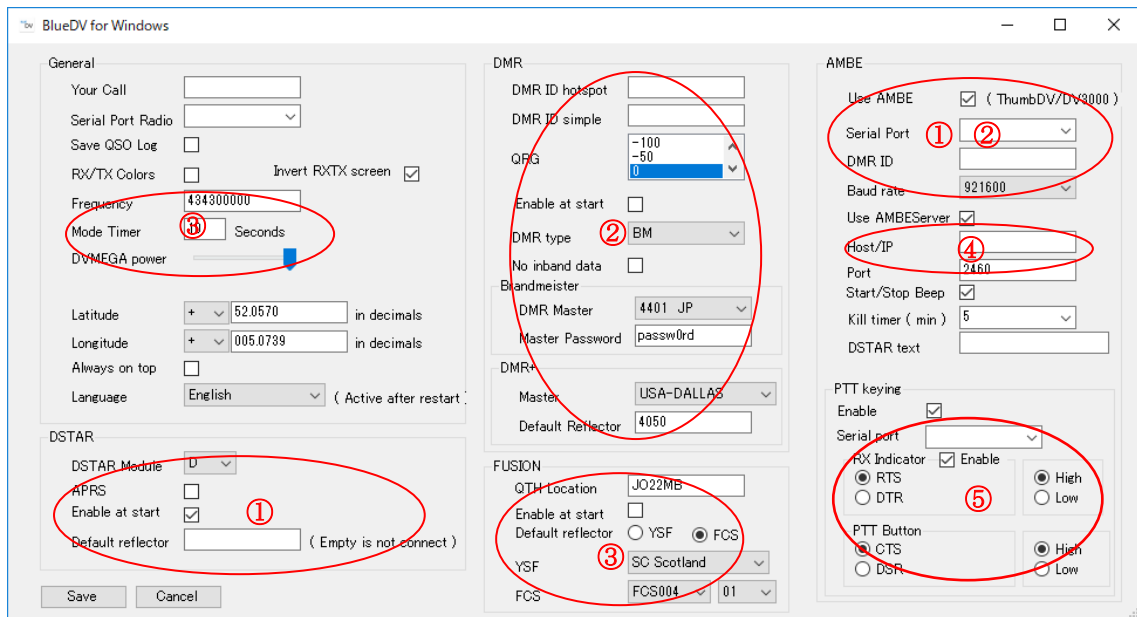
## 1. BlueDV for Windows

With this software you can enjoy digital voice communication of D - Star, DMR, Fusion but now we have experienced D - Star and DMR. You can use multipurpose with initial setting of BlueDV for Windows as shown in the following diagram.

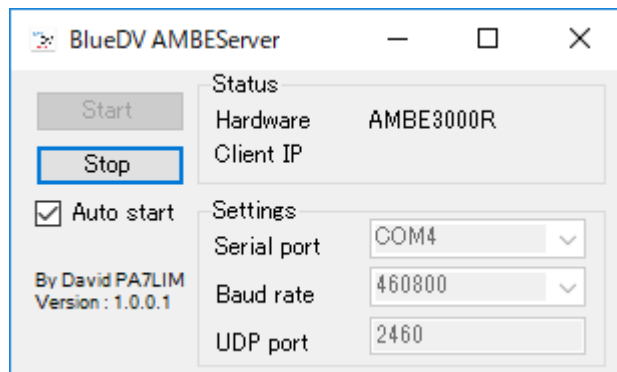
Initial setting screen of “BlueDV for Windows” is shown on next page. The number on the figure corresponds to the number on the setting screen of the next page.



- ① Please refer to the detailed experience report of BlueDV for Windows ThumbDV\_BlueDVe.pdf on web page <http://xlxreflector.jp/ph/bluedv/>
- ② Ditto



- ③ We plan to use Fusion after purchasing DVmega.
- ④ With this “Use AMBEServer” setting, you can use digital voice server built using Raspberry Pi Zero and ThumbDV with WiFi at home. Please take a look at this server construction detailed experience note DVserver\_e.pdf on web page <http://xlxreflector.jp.ph/bluedv/>. Also, if you download Windows BlueDVAMBEServer 1001.zip developed by PA7LIM David from web page <http://software.pa7lim.nl/BlueDV-AMBEServer/> and install it, your computer will easily become a digital voice server (figure below). The operation method is very easy. We plan to summarize our experience of use separately with reference to the usage of English sentences on web page <https://www.pa7lim.nl/garage/>.

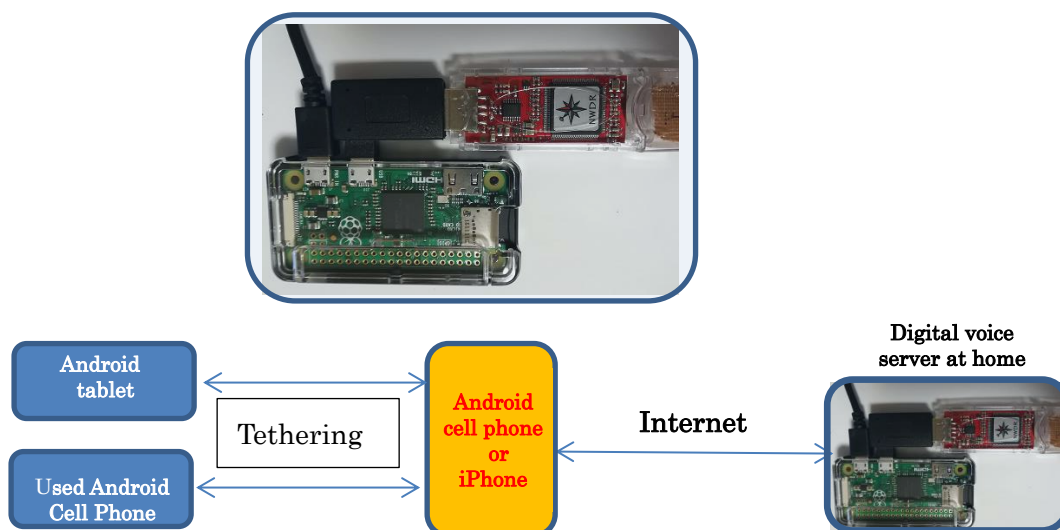


- ⑤ We remember that the overseas station announced the circuit that the signal exchange between the FM transceiver provided the data communication terminal and "BlueDV for Windows" can be done (by PTT keying setting in the above figure). It is very interesting if the FM transceiver can transmit and receive the digital signal with this circuit if so. Why do not you try it?

## 2. Android BlueDV AMBE

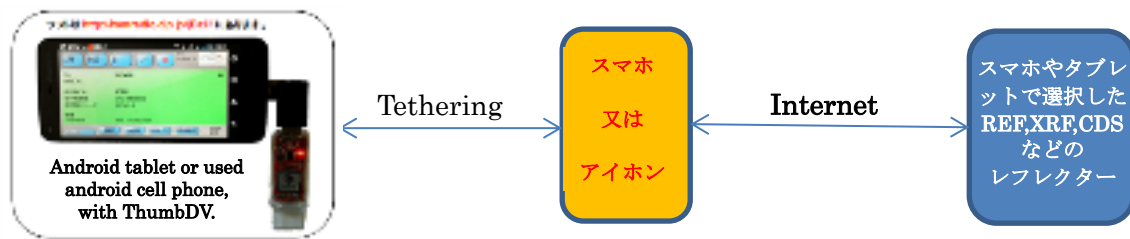
This software is also developed by PA7LIM David in the Netherlands, and can be downloaded from Google Play Store to Android cellphone or tablet. Although it can not be used with an iPhone or an iPad, this software can be used in two ways by setting. One of them is the OTG method that uses ThumbDV on a smartphone and another one is an AMBE Server method that uses a digital voice server built at home. Both methods are convenient because they can be used from outside. The difference between the OTG method and the AMBE Server method is whether or not to install ThumbDV on a cell phone to carry. The tablet (Android) or used smartphone (Android) can be used the server from outside while tethering with a smartphone or an iPhone. In addition, the server can also be used with WiFi at home.

- Please visit web page <http://xlxreflector.jp/bluedv/> for the experiences of building a digital voice server that uses cell phone settings as AMBE Server. The figure below is a digital voice server built with Raspberry Pi Zero and ThumbDV.



- Please visit web page <http://xlxreflector.jp/bluedv/> for the experiences note A that use of the OTG setting for the cell phone. The figure below is an example of installing ThumbDV on a cell phone and in operation (receiving).





- DVmega Stick 30 which is thought to be compatible with ThumbDV recently has been announced. We would like to obtain this and use it if possible.
- We calling the AMBE server as a digital voice server.
- We call BlueDV for Windows "Multifunction BlueDV for Windows".
- Since OTG method consumes power of cell phone by ThumbDV, battery consumption of cell phone becomes faster.

As of September 15, 2018