

Setup Details<mark>:</mark>

Serial / USB Mode:

Step 1: Install the USB stick into the USB 2.0 or 3.0 port of your PC.



Step 2:

In most cases the serial driver for the STM32 interface is already installed in Windows 7 and above.

If you find you need to install the drivers they can be found here.

STM32 Virtual COM Port Driver

Upon installing the stick you will hear the familiar USB install bump sound. Then you will hear a sound like it uninstalled, and then the install sound again. This is the bootloader starting and re-initializing the USB port.

Verify that the stick is working correctly by going to the DEVICE MANAGER.

There you should see under PORTS a device listed as USB Serial Device (COM x)



In this case it appears on COM port 25

Take note of which COM port the USB serial port is on. You will need to know this for BlueDV.



Step 3: Install BlueDV

BlueDV can be downloaded from this location:

http://software.pa7lim.nl/BlueDV/BETA/Windows/

I would recommend installing the stable version to begin with. Later once things are working you could experiment with the Beta versions. But I would not start with this.

Begin your installation by double clicking on the msi file you just downloaded.



In windows 10 you will get a warning that the publisher is not recognized.



Here you want to click on *More info* This will reveal the option to Run Anyway:



Select this option. Trust me! 😊

Next you will get yet another warning. This is known as the UAC warning.



Go ahead and select YES.

Next you will see the BlueDV install screen



Allow it to install to the default folder. This is fine.

BlueDVWindows		100 5		×
Select Installation F	older		l	5
The installer will install BlueDVWir	ndows to the following folder.			
To install in this folder, click "Next <u>F</u> older:	". To install to a different folder, er	nter it below or o	slick ''Brow	vse".
C:\Program Files (x86)\BlueD	/\BlueDVWindows\		Browse	
			Disk Cost	
Install BlueDVWindows for your	self, or for anyone who uses this c	omputer:		
Install BlueDVWindows for your O Everyone Just me	self, or for anyone who uses this c	omputer:		

Once it is successfully installed you will be greeted with this screen.



You should now have an icon on your desktop you can use to start BlueDV.



				By David P	A7LIM Version 1.0.0).9572
FRIAI				Lastheard	AMBE BM lookup	APRS chat
	Frequency DMR master	Firmware Not detected Dest TG	LISTENING	Time	Call Name	Mode
	NAME INFO					
SIGN			00			
	Idle	Status None	TX RX			

Upon first start BlueDV will look like this:

Most of these instructions are geared toward DMR. But D-Star and Fusion are not all that much different.

The first thing you want to do is UPDATE the DMR masters and call sign database.

🐄 BlueD	V for Windows					-	
Menu	Update About						
	Update DSTAR hosts Update call database			By David P/	A7LIM	Version 1.0.0.95	72
(a la l	Update DMR masters			Lastheard	AMBE E	3M lookup APF	S chat
SERIAL	Frequency	Firmware	LISTENING	Time	Call	Name	Mode
	DMR master	Dest TG	BER				
DMR DSTAR FUSION	CALL NAME INFO Idle	Status	TX RX				
	DMR	DSTAR	FUSION	DS	TAR		MRE2000
	Call Status - Nat Consected	Call Status Not Linked	Call Status Not Linked			A	MDC3000
	Status Not Connected	Julius Not Unked	Julius Not Unked	Mute sp	k		

Next you should select MENU and then SETUP in order to setup BlueDV When you do you will see this screen

Seneral	DMR	AMBE			
Your Call N5BOC	DMR ID hotspot 11481123	Use AMBE	ThumbDV/DVStick		
Serial Port Radio	DMR ID simple 1148112	Model AMBE	AMBE3000 V		
Save QSO Log	-100	Serial Port	×		
RX/TX Colors 🗹 Invert RXTX screen		DMR ID	2043000		
Frequency 43900000	Enable at start	Baud rate	230400 💎		
Mode Timer 10 Seconds	DMR type BM ~	Use AMBEServer			
Radio TX power	No inband data	Host/IP	192.168.1.10		
	Brandmeister	Port	2460		
Latitude + v 33.2037 in decimals	DMR Master 3103 US ~	Start/Stop Beep			
Longitude - V 096.6389 in decimals	Master Password passw0rd	Kill timer (min)	5 ~		
Always on top	DMR+	DSTAR text	BlueDV by PA7LIM		
Language English V (Active after restart)	Master PSC2-Illinois	, PTT keying	PTT keying		
		Enable			
DSTAR		Serial port	~		
DSTAR Module D 🗸	FUSION	RX Indicator	Enable		
APBS	QTH Location JO22MB	() RTS	(e) High		
Enable at start	Enable at start	ODIR	O Low		
BEE001C	Default reflector OYSF FCS	PTT Button			
Default reflector [1121 00 10] (Empty is not connect)		O CTS	(i) High		
	YSF SC Scotland V	O DSR	O Low		

Most of the fields are self-explanatory as they are standard DMR parameters.

It should go without saying you have to enter your DMR ID and set the frequency to match what you have in your codeplug.

But to make it run you must set the Serial Port Radio field to match the COM port you found by looking at the DEVICE MANAGER screen.

Now select **SAVE**.

Because you are now ready to operate.

PLEASE NOTE: Every time you reconnect the USB connection this port number may change. You can check this from Device manager just as was described earlier. If it does change you will need to change it inside of BlueDV to match.

In order to start operation you must first slide the **SERIAL slider** to the right.

This next step is key!

Upon sliding this you should see the *Firmware* field be populated.



If you don't get that, nothing is going to work. This is your verification that you have all the drivers correctly installed and then correctly configured correctly inside of BlueDV.

The good news is if you do get this, then there is no reason for it to not work. If it doesn't work something else less significant is not set correctly and it should be easy to find and fix. These are simple things like the frequency or the color code or one of those things. If it doesn't do this automatically, slide the DMR slider to the right and you should be on the air!

(Which mode is enabled by default is configurable within BlueDV)

You can now operate from your radio just like you would with a HOTSPOT running Pi-Star.

I hope you ENJOY your USB Stick.

73's David N5BOC