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# Introducing EasyVR 3 & EasyVR Shield 3

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We are excited to introduce the brand new third generation of our [EasyVR](#) product line: the **EasyVR 3!**

Here are the main features immediately available and also some anticipations of what will be available soon with a simple firmware upgrade.



EasyVR 3 fully assembled (speaker not included)

## EasyVR 3 Features:

- Up to 32 user-defined Speaker Dependent (SD) or Speaker Verification (SV) commands, that can be trained in ANY language.

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- A selection of built-in Speaker Independent (SI) commands for ready-to-run basic controls, in the following languages:
    - English (US)
    - Italian
    - German
    - French
    - Spanish
    - Japanese
  - Up to 28 custom Speaker Independent (SI) command vocabularies with a *QuickT2S™ Lite* license.
- Supported Languages:
- US English
  - British English
  - French
  - German
  - Italian
  - Japanese
  - Korean
  - Mandarin
  - Spanish
- Up to 22 minutes of pre-recorded sounds or speech at the maximum compression rate
  - DTMF tone generation
  - SonicNet™ technology for wireless communications between modules or any other sound source (Audio CD, DVD, MP3 Player)
  - Differential audio output that directly supports 8Ω speakers
  - Standard UART interface compatible with CMOS/TTL levels at 3.3V to 5V
  - 6 General purpose I/O lines that can be controlled via UART commands
  - Simple and robust documented serial protocol to access and program through the host board
  - Easy-to-use Graphical User Interface to exercise all the module functions (all the software is Windows only).

## Main differences with EasyVR 2.0:

- Different form factor:
  - External dimensions 25.4 mm x 56.4 mm (1.00" by 2.22")
  - All signals are available on standard 2.54mm headers
  - Compatible with solder-less breadboard and standard prototyping boards
  - Compatible with mikroBUS™ host interface (see [www.mikroe.com/mikrobus](http://www.mikroe.com/mikrobus))

- Larger Flash memory for custom SI vocabularies and compressed sounds
- Serial Flash memory instead of EEPROM to support voice recording capability
- Audio output from internal DAC instead of PWM for better quality
- Embedded boot-mode circuitry to support easier connection with a PC (through the QuickUSB adapter cable)
- SMD jumper for input voltage selection

The current production version of the new EasyVR 3 will be functionally equivalent to the old EasyVR 2. Future firmware upgrades will add voice recording and playback capability to the serial command protocol and a replacement firmware will provide direct programmability of the main processor in the same fashion as the now end-of-life SmartVR product.

The new EasyVR Shield 3 comes as an adapter board for using the EasyVR 3 module on Arduino boards.



## EasyVR Shield 3 Features:

- Compatible with Arduino boards that have the 1.0 Shield interface (UNO R3) and legacy boards including, but not limited to:
  - Arduino Duemilanove
  - Arduino Uno
  - Arduino Mega
  - Arduino Leonardo
  - Arduino Due
- Supports 5V and 3.3V main boards through the IOREF pin
- Supports direct connection to the PC on main boards with a separate USB/Serial chip and a special software-

driven “bridge” mode on boards with only native USB interface, for easy access by the EasyVR Commander

- Supports remapping of serial pins used by the Shield (in SW mode)
- Provides a 3.5mm audio output jack suitable for headphones or as a line out

## Main differences with the previous version:

- Support for 3.3V levels in addition to 5V
- Complete support for Arduino Leonardo and Due (also for Flash updates)
- SMD jumpers to re-route serial pins used in SW mode (12-13 or 8-9), to free the SPI interface or to enable SoftwareSerial connection with Leonardo

◀ EasyVR 2.0 Firmware/Software Update

EasyVR Commander v3.9.3 released! ▶

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